

## **SH-05C**

INSTRUCTION MANUAL '11.1



### **DOCOMO W-CDMA System**

Thank you for purchasing "docomo PRO series SH-05C". Before use of SH-05C, make sure that you read this manual to ensure proper operation.

## Explanation for operation of SH-05C

Other than this manual, "Guide" (contained in the FOMA terminal) or "Manual (detailed edition)" (PDF file) explains how to operate SH-05C.

"Manual" (this manual)

Explanation for contents displayed on the screen or operation of basic function

 "Guide" (in Japanese only) (contained in the FOMA terminal)

## Explanation for the outline and operation of frequently-used function

From SH-05C In the Normal menu, [Tool] > [Guide] > select an item

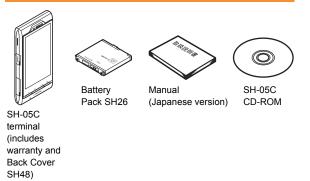
### "Manual (detailed edition)" (in Japanese only) (PDF file)

## Explanation for the detailed information and operation of all functions

From a PC Download from the DOCOMO website http://www.nttdocomo.co.jp/support/trouble/manual/ download/index.html

% The URL and contents are subject to change without prior notice.

### **Basic package**



- For details on optional parts compatible with the FOMA terminal P. 88
  - The screens and illustrations in this manual are shown as examples. The actual screens and illustrations may differ.
  - Note that "SH-05C" is referred to as the "FOMA terminal" in this manual.
  - Reproduction of this manual in part or in whole is prohibited.
  - The contents of this manual are subject to change without prior notice.

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## **FOMA Terminal**

- Because the FOMA terminal relies on radio signals, it cannot be used in places with no signal (such as tunnels, underground or in buildings), in places with a weak signal or outside the FOMA service area. You may not use the FOMA terminal in the upper floors of a building even with no obstructions in sight. There may also be times when the signal is strong and you are not moving but the call is interrupted.
- Make sure not to disturb others when using the FOMA terminal in public places, places with many people or quiet places.
- Because the FOMA terminal uses electrical signals, it is possible for a third party to listen in on a conversation. However, since the W-CDMA system automatically applies privacy to every call, a third party that tries to listen in only hears static.
- The FOMA terminal converts conversations into a digital signal and sends it to the other party over the radio. If the signal cannot be reconverted properly by such as moving to an area with a weak signal, the voice may not be heard correctly.
- Keep a separate memo and note information (e.g. phonebook, schedule, memo, record message, voice memo) stored in the FOMA terminal. DOCOMO shall not be liable for any loss of content due to a failure, repair, upgrade or other handling of the FOMA terminal.
- It is recommended to save the important data to the microSD Card. If you own a PC, you can also transfer and store the information such as a phonebook, mail and schedule to your PC using DOCOMO keitai datalink.

- The user hereby agrees that the user shall be solely responsible for the result of the use of SSL/TLS. Neither DOCOMO nor the certifier as listed herein makes any representation and warranty as for the security in the use of SSL/TLS. In the event that the user shall sustain damage or loss due to the use of SSL/TLS, neither DOCOMO nor the certifier shall be liable for any such damage or loss.
  - Certifier: VeriSign Japan K.K.,

Cybertrust Japan Co., Ltd., GlobalSign K.K., RSA Security Japan Ltd., SECOM Trust Systems Co., Ltd., Comodo CA Ltd., Entrust, Inc., Go Daddy, Inc.

- The FOMA terminal supports the FOMA Plus-Area and the FOMA HIGH-SPEED area.
- The FOMA terminal can be used only via the FOMA network provided by DOCOMO and DOCOMO's roaming area.

## What You Can Do with SH-05C

### i-concier (in Japanese only) @ P. 76

"i-concier" is a service to support your life like butler or concierge. It can keep your various data (information of your living area, memo and schedule, ToruCa and phonebook, etc.) and timely provide information tailored to the content of memo and schedule, your living area, current location or hobbies and diversions.

### Guide (in Japanese only) 🖙 P. 28

Guide is a convenient function which allows you to check an operation method of function on the FOMA terminal. You can search immediately without a manual.

### AUTO-GPS (in Japanese only) 🖙 P. 60

By the AUTO-GPS function, you can receive convenient services, such as providing surrounding information including weather information, store information, etc. or sight-seeing information.

### Quick voice activation (in Japanese only) 2 P. 28

You can activate a function just by speaking keyword of the function to use. It is convenient when you cannot find the menu of function to use or when you want to activate the function immediately.

### Highly-functional camera @ P. 61

The FOMA terminal has built-in highly-functional camera offering approximately 14.1 million effective pixels (Recorded pixels: approximately 14.0 million pixels). Since the optical zoom is built into this camera, you can take a picture of a distant view clearly.

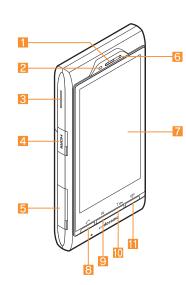
### 3.7 inch FWVGA LCD & touch panel @ P. 26

You can operate the FOMA terminal by touching the touch panel (display) with your finger directly. Select a menu or enter characters with touch operation, and adjust the volume or scroll the screen with slide operation.

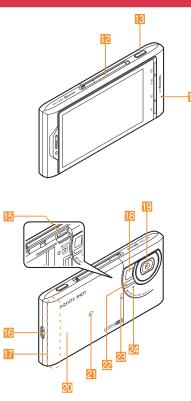
### Character entry 2 P. 29

You can enter characters in romaji method with QWERTY keyboard for touch operation. On flick entry, enter a character by quickly sliding up/ down/left/right.

## **Part Names and Functions**



• Key illustrations may look different from actual keys.

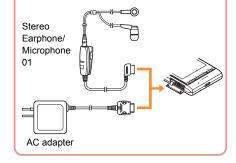


### **Using earphone**

Connect an earphone compatible with external connector terminal (sold separately). In addition, when using an earphone which does not support external connector terminal, connect with a plug adapter (sold separately).

### Connection example for Stereo Earphone/Microphone for external connector terminal 01 (sold separately)

AC adapter (charging) and Stereo Earphone/ Microphone 01 (earphone/microphone terminal) share the same entry point.



### 🚺 Earpiece

### 2 Called/Charging LED

- Flashes while receiving a call.
- Illuminates while charging.

### \mathrm Speaker

### HDMI terminal (type D)

• Use for connecting commercially available HDMI cable.

### External connector terminal

 Integrated terminal to use for charging and connecting the earphone/microphone, etc.

### 6 Brightness sensor

- Sensor detects brightness of the surrounding area.
- Do not cover the sensor area with your hand or a sticker.

### Display/Touch panel ( P. 21, P. 26)

- Start/Hands-free key (
  P. 42)
- 9 🛛 : W key (🞯 P. 27)
- 🔟 🔳: T key (🖙 P. 27)
- 11 💽: Power/End key (🖙 P. 20)
  - Press for at least 2 seconds to turn the power on/off.
  - Use to end the function being activated and return to stand-by display.

### 12 1Seg antenna

- Use to receive 1Seg.
- 😢 (): Side key
  - Use to shoot still pictures or moving pictures.

### Mouthpiece/Microphone

- ⓑ microSD Card slot (☞ P. 80)
- 16 Strap hole

### FOMA antenna

• FOMA antenna is built in.

### 18 Picture Light

• Illuminates while activating the camera/shooting.

### [ Camera

• Use to shoot still pictures or moving pictures.

### 犯 Back cover

- A radio frequency-preventing sticker is attached on the back of the back cover. Do not peel off this sticker.
- 📶 🕤 mark (🖅 P. 75, P. 81)
- 22 Infrared port (@P. 81)
- Shooting LED
  - Illuminates while activating the camera.
- 2 Out-microphone for shooting

## **Precautions (Always follow these directions)**

Before use, read these "Precautions" carefully and use your FOMA terminal properly.

Keep this manual in a safe place for future reference.

 These precautions contain information intended to prevent bodily injury to the user and to surrounding people, as well as damage to property, and must be observed at all times.

The following symbols indicate the different degrees of injury or damage that may occur if information provided is not observed and the FOMA terminal is used improperly.

🕂 Danger	This symbol indicates that "death or serious bodily injury may directly and immediately result from improper use".
<b>A</b> Warning	This symbol indicates that "death or serious bodily injury may result from improper use".
<b>A</b> Caution	This symbol indicates that "minor injury and/or property damage may result from improper use".

The following symbols indicate specific directions.

Don't	Indicates a prohibited action.	
No disassembly	Indicates not to disassemble the device.	
No wet hands	Indicates not to handle the device with wet hands.	
No liquids	Indicates not to use the device near water or get it wet.	
-		
Instruction	Indicates that instructions specified are compulsory (must be followed).	

outlet.

Indicates that the power cord must be unplugged from the

"Precautions" is explained in the following six sections.

### Handling the FOMA terminal, battery pack, adapters, and UIM (general)

### 🕂 Danger



Do not use, store or leave the equipment in locations subject to high temperatures, such as near a fire, in direct sunlight or inside a car on a hot day.

May cause fires, burns or bodily injury.



Do not place the equipment inside cooking appliances such as microwave ovens or pressure cookers.

May cause fires, burns, bodily injury or electric shock.



Do not attempt to disassemble or modify the equipment.

No disassembly

May cause fires, burns, bodily injury or electric shock.



Do not get the equipment wet with water, drinking water, pet urine, etc.

May cause fires, burns, bodily injury or electric shock.



Use only the battery packs and adapters specified by NTT DOCOMO for use with the FOMA terminal.

May cause fires, burns, bodily injury or electric shock.



Don't

Do not subject the equipment to strong impacts or throw it.

May cause fires, burns, bodily injury or electric shock.



Do not allow conductive materials (such as metal objects and pencil lead) to come into contact with the charger terminal or external connector terminal. In addition, do not insert such objects.

May cause fires, burns, bodily injury or electric shock.



Do not cover or wrap the equipment with bedding, etc. when using or charging.

May cause fires or burns.



Make sure to turn off the FOMA terminal and not to charge the battery in locations such as gas stations where flammable gas is generated.

May cause a gas explosion or fire. To use Osaifu-Keitai in locations such as gas stations, make sure to turn off the power in

advance (If the IC card lock is set, disable the lock before turning off the power).



If you notice anything unusual, such as an unusual odor, overheating, discoloration or deformation during use, charging or storage, immediately follow the instructions below.

- Unplug the power cord from the outlet or cigarette lighter socket.
- Turn off the FOMA terminal.
- Remove the battery pack from the FOMA terminal.

May cause fires, burns, bodily injury or electric shock.





Do not leave the equipment on unstable surfaces, such as on a wobbling table or sloped surface.

May fall and cause injury.



Do not store the equipment in locations that are subject to humidity, dust or high temperatures.

May cause fires, burns or electric shock.



If being used by a child, have a guardian teach him/her the proper handling procedures. In addition, check that the child is using the equipment as directed.

May result in bodily injury.



### Keep the equipment out of the reach of young children.

Instruction

A young child may swallow the equipment or suffer other bodily injury.



Be very careful when using the FOMA terminal connected to Instruction adapters repeatedly or for a long time.

The FOMA terminal, battery pack or adapters may become warm if i-appli, videophone or 1Seg is used for a long time while charging. Touch high temperature areas for a long time may cause skin irritations, itchiness or low-temperature burn in some people.

### Handling the FOMA terminal



$\bigcirc$	
Don't	

Do not aim the infrared port towards the eyes.

May cause eve injury.



Do not aim the infrared port towards home electric appliances with an infrared device durina lr communication.

May interfere with the operation of infrared devices and cause an accident.



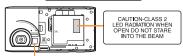
### Do not point the illuminated light directly at someone's eyes.

Do not use Picture Light near people's faces. Evesight may be temporarily affected leading to accidents

Precautions:

The picture light source used for this product may emit the light over the safety level for eves when operations such as undirected adjustments are intentionally made. Therefore, do not disassemble the terminal





Picture Light

### CAUTION:

Use of controls, adjustments or performance of procedure other than those specified herein may result in hazardous radiation exposure. As the emission level from Picture Light LED used in this product is harmful to the eyes, do not attempt to disassemble the cabinet. Servicing is limited to qualified servicing station only.



Do not allow water or other liquids, metal, flammable material or other foreign Don't objects to enter the UIM or microSD Card port on the FOMA terminal.

May cause fires, burns, bodily injury or electric shock



### Do not shine the light at anyone driving a car or other vehicles.

May prevent a driver from driving safely and cause a traffic accident

Turn off the FOMA terminal in areas where the use of mobile Instruction phones is prohibited, such as in aircraft or hospitals.

May interfere with the operation of electronic devices and electronic medical equipment. In addition, if auto power on function is set to on. disable this function before turning off your mobile phone.

Follow the instructions given by the respective medical facilities regarding the use of mobile phones on their premises.

In addition, actions such as using on a mobile phone aboard aircraft are prohibited and punishable by law.



Keep the FOMA terminal away from the ears during a call in which hands-free is set or while the ring tone is ringing. When you attach the earphone/ microphone, etc. to the FOMA terminal to play games or music, do not make the volume

### too loud.

Excessive high volume may damage your hearing.

Also it may prevent you from hearing the ambient sounds and cause an accident.

### Earphone Signal Level

The maximum output voltage for the music player function, measured in accordance with EN 50332-2, is 28.0 mV.



If you have a weak heart, take extra precautions when setting functions such as the vibrator and ring tone volume for incoming calls.

May have harmful effects on your heart.



If you are using electronic medical equipment, contact the respective manufacturer or vendor to check whether the operation of the equipment is affected by signals.

May interfere with the operation of electronic medical equipment, etc.



Turn the FOMA terminal off near high-precision electronic devices or devices that use weak electronic signals.

May interfere with the operation of electronic devices.

### Take particular care with the following devices

Hearing aids, implanted cardiac pacemakers, implanted cardioverter-defibrillators or other electronic medical equipment. Fire alarms, automatic doors, and other equipment controlled by electronic signals. If you use an implanted cardiac pacemaker, implanted

cardioverter-defibrillator or other electronic medical equipment, contact the respective manufacturer or vendor to check whether the operation of the equipment is affected by signals.

Instruction

In case that the display part or camera lens is damaged, make sure to pay attention to a broken glass and the exposed inside of the FOMA terminal.

The surface of the display is covered by a protective film or the surface of camera lens are covered by a plastic panel so as to minimize the possibility of glass scattering. However, touching the broken or exposed parts may cause injury.





Do not swing the FOMA terminal by its antenna, strap, etc.

May hit you or others around you, resulting in bodily injury.



Do not use the damaged FOMA terminal.

May cause fires, burns, bodily injury or electric shock.



When using motion tracking or motion sensor, confirm the safety of surroundings, hold the FOMA terminal securely and do not swing it around more than necessary.

May result in bodily injury.



If the display is broken and liquid crystal then leaks, do not get the liquid on your skin (face, hands, etc.).

May result in loss of eyesight and harm to your skin.

If liquid crystal comes into contact with your eyes or mouth, immediately rinse your eyes or mouth with clean water and see a doctor.

If the liquid comes into contact with your skin or clothes, immediately wipe it off with alcohol, and wash with water and soap. Introduction

On the surface of the display, there is a protective film for securing the safety (for Don't preventing the reinforced glass panel from shattering) in case of the damage caused by a drop, impact, etc. Do not forcibly peel off or scratch this film.

Using the FOMA terminal with the film removed may cause a bodily injury when the display is damaged.



If you use the FOMA terminal in an automobile, contact the automobile manufacturer or vendor to check whether the operation of the electronic equipment is affected by signals.

May interfere with the operation of electronic equipment in some vehicle models. In such cases, stop using the FOMA terminal.

Instruction

Use of the FOMA terminal may cause skin irritations such as itchiness, rashes or eczema in some people. If this occurs, immediately stop using the FOMA terminal and seek medical treatment.

For details on materials of each part 3 "Material list" on P. 13



Look at the display in a well-lit place, keeping a certain distance from the screen.

Otherwise, eyesight may be decreased.

### Handling battery pack

Check the type of battery using the information printed on the battery pack label.

Label	Battery type
Li-ion00	Lithium-ion

### Danger



Do not touch terminals with metallic objects such as wires. In addition, do not carry or store the battery pack with metallic necklaces, etc.

The battery pack may catch fire, explode, overheat or leak.



Check that the battery pack is facing the correct direction before you attach it to the FOMA terminal. If you are having difficulty fitting the battery pack to the FOMA terminal, do not use excessive pressure to force the battery into place.

The battery pack may catch fire, explode, overheat or leak.

Do not throw the battery pack into a fire. Don't

The battery pack may catch fire, explode, overheat or leak.



Do not puncture, hit with a hammer or step on the battery pack.

The battery pack may catch fire, explode, overheat or leak.

If the battery fluid, etc. comes into contact with your eyes, do Instruction not rub your eyes but immediately rinse your eyes with clean water. Then seek prompt medical treatment.

May result in loss of evesight.

### Warning



If any trouble such as a deformation or scratches caused by a drop is found, never use it.

The battery pack may catch fire, explode, overheat or leak.



If the battery pack leaks or emits an unusual odor. immediately stop use and move it away from any flame or fire.

The battery fluid is flammable and could ignite, causing a fire or explosion.



Prevent your pet from biting the battery pack.

Instruction

The battery pack may catch fire, explode, overheat or leak.





Do not dispose of used battery packs in ordinary garbage.

May cause fires or damage to the environment. Place tape over the terminals to insulate unnecessary battery packs, and take them to a docomo Shop, retailer or institution that handles used batteries in your area.

> Do not use or charge a wet battery pack.

The battery pack may catch fire, explode, overheat or leak.



Don't

If the battery fluid, etc. leaks, do not get the liquid on your skin Instruction (face, hands, etc.).

May result in loss of eyesight and harm to your skin.

If the liquid, etc. comes into contact with your eves, mouth, skin or clothes, immediately rinse them with clean water

If the liquid comes into contact with your eyes or mouth, see a doctor immediately after rinsing vour eves or mouth.

### Handling adapters

### Warning

Don't

Do not use if the adapter's cord is damaged.

May cause fires, burns or electric shock.



Never use the AC adapter in humid locations such as a bathroom.

May cause fires, burns or electric shock.



The DC adapter should only be used in negative grounded vehicles. Never use this adapter in positive grounded vehicles.

May cause fires, burns or electric shock.

Don't

Do not touch adapters if you hear thunder.

May cause electric shock.



Take care not to short-circuit the charging terminal when connected to an outlet or cigarette lighter socket. Also,

take care not to allow any part of your body (hands, fingers, etc.) to come into contact with

the charging terminal.

May cause fires, burns or electric shock.



Do not place heavy objects on the adapter's cord.

May cause fires, burns or electric shock.



When plugging/unplugging the AC adapter into/from the outlet, do not allow metallic straps or other metallic objects to come into contact with the terminal.

May cause fires, burns or electric shock.



Do not handle the cord of the adapters and outlet with wet hands.

May cause fires, burns or electric shock.



Always use the specified power supply and voltage.

Instruction When using overseas, use the AC adapter that is available overseas.

Using the incorrect voltage may cause fire, burns or electric shock

AC adapter: 100V AC

DC adapter: 12/24V DC (for negative grounded vehicles only)

AC adapter available overseas: 100 to 240V AC (Connect only with household AC outlet)



If the fuse in the DC adapter blows, always replace it with a Instruction fuse of the specified type.

May cause fires, burns or electric shock. Refer to the respective manuals for information on the correct fuse specifications.



Wipe off any dust on the power plug.

Instruction

May cause fires, burns or electric shock.



Fully plug the AC adapter into the outlet.

Instruction

May cause fires, burns or electric shock.



Always grasp the power plug when unplugging the adapters Instruction from the outlet or cigarette lighter socket. Do not forcibly pull by the adapter's cord.

May cause fires, burns or electric shock.



Unplug the power plug from the outlet or cigarette lighter socket when not using for a long time.

May cause fires, burns or electric shock.



Should water or other liquids enter the adapters, remove the power plug from the outlet or cigarette lighter socket immediately.

May cause fires, burns or electric shock.



Always unplug the power plug from the outlet or cigarette lighter socket before cleaning the adapters.

May cause fires, burns or electric shock.

### Handling UIM

### Caution

Be careful with the cutting surface when detaching the Instruction UIM. May cause bodily injury.

### Handling near electronic medical equipment

The precautions detailed here conform to the guidelines drawn up by the Electromagnetic Compatibility Conference Japan, regarding the protection of electronic medical equipment from signals emitted by mobile phones.

### Warning



Observe the following in hospitals or other medical Instruction facilities.

- Do not take your FOMA terminal into operating rooms, ICUs (Intensive Care Units) or CCUs (Coronary Care Units).
- Turn off your FOMA terminal inside hospital wards.
- Turn off your FOMA terminal even when you are in an area outside hospital wards, such as a hospital lobby, since electronic medical equipment may be in use nearby.

- Where a medical facility has specific instructions prohibiting the carrying and use of mobile phones, observe those instructions strictly.
- If auto power on function is set to on, disable this function before turning off your mobile phone.



Turn off your FOMA terminal in crowded places such as rush-hour trains in case somebody nearby is using an implanted cardiac pacemaker or implanted cardioverter-defibrillator.

Electromagnetic signals may have harmful effects on the operation of implanted cardiac pacemakers and implanted cardioverter-defibrillators.



If you have an implanted cardiac pacemaker or an implanted

cardioverter-defibrillator, always carry or use your FOMA terminal at least 22 cm away from your implant.

Electromagnetic signals may have harmful effects on the operation of implanted cardiac pacemakers and implanted cardioverter-defibrillators



Patients receiving medical treatment away from a hospital Instruction or medical facility (e.g. home treatment) who are using electronic medical equipment other than implanted cardiac pacemakers or implanted cardioverter-defibrillators should consult the respective manufacturers for information regarding the effects of signals on the equipment.

Electromagnetic signals may have harmful effects on the operation of electronic medical equipment.

### Material list

	Part	Material/Surface treatment
	Surface	ABS resin/UV coating
Surface of FOMA terminal	Display side	Reinforced glass/ Antiscattering film
	Left side, Right side, Back side	Polyamide resin with glass/UV coating
Camera panel		Acrylic resin/Hard coating
Camera window		ABS resin/UV coating
	Back cover	ABS resin/UV coating
Back	Radio	IFL 12 (Magnetic
cover	frequency-	powder +
	preventing sticker	urethane resin)/ PET
Picture Light/Infrared port		Acrylic resin/Hard coating
Operation key		PC resin/Hard coating
Side key		PC resin/Hard coating
1Seg antenna		SUS/Baking coating
External connector	External connector terminal	SUS/Nickel plating
terminal	Cover	PC resin/Hard coating

	Part	Material/Surface treatment
HDMI terminal	HDMI terminal	SUS/Nickel plating
	Cover	PC resin/Hard coating
Inside mic	roSD Card slot	SUS/Nickel plating
	Tray	LCP
UIM tray	Tray top	SUS/Polyamide resin coating
Battery storage side		PET Glass epoxy board
Battery storage section	Surrounding section of battery storage section	Polyamide resin with glass
	Screw	Carbon steel/ Nickel plating
Battery	Battery terminal connector	LCP
terminal	Battery terminal	Copper alloy/Gold plating
	Battery pack	PC resin/Spark erosion
Battery pack	Terminal section	Copper alloy/Full surface nickel with plating base, Gold plating
Strap	Resin section	Polyamide resin with glass
hole	Metal section	SUS/Nickel plating

# Introduction

## **Handling Precautions**

### **General notes**

### • Do not expose to water.

The FOMA terminal, battery pack, adapters and the UIM are not waterproof. Do not use in humid locations such as a bathroom and do not get wet by raining, etc. Also, when you have the handset close to your body, humidity from sweating causes corrosion inside and leads to malfunction. Note that if problem is found to be due to moisture, handset and parts are not covered by warranty and in some cases may be irreparable. Even where repairs are possible, repair charges will be incurred since damage is not covered by warranty.

- Clean only with a soft and dry cloth (such as the type used for eyeglasses).
  - Forceful rubbing of the display with a dry cloth may scratch the display surface.
  - Note also that the display coating may stain if moisture or soiling is left on the surface for a long period.
  - Never use chemicals such as alcohol, thinners, benzene or detergents, as these agents may erase the printing on the handset or cause discoloration.

### Occasionally clean terminals with a dry cotton swab, etc.

Unclean terminals may result in poor connections and loss of power. Keep terminal clean with a dry cotton swab, etc. Take care of the terminal while cleaning it.

Do not place the handset near an air conditioning vent.

Condensation formed due to rapid changes in temperature may cause internal corrosion and lead to malfunction.

 Do not apply excessive force to the FOMA terminal and battery pack when using them.

Carrying the handset in a tightly packed bag or sitting on the handset in your pocket may cause a damage to display, other internal components or battery pack or result in malfunction.

Keeping an external connector device plugged into the external connector terminal (earphone/microphone terminal) may cause a damage to the connector or result in malfunction.

 Do not rub or scratch the display with metal, etc.

May scratch the handset and cause malfunction or damage.

 Read the respective manuals supplied with the battery pack and adapters carefully.

## Notes about the FOMA terminal

• Do not forcefully press a surface of the touch panel or operate with a pointed object such as a fingernail, ballpoint pen, pin, etc.

May damage the touch panel.

• Avoid using the handset in extremely high or low temperatures.

Use the FOMA terminal within the range of a temperature between  $5^{\circ}$ C and  $35^{\circ}$ C and a humidity between 45% and 85%.

- Using the handset close to landline phones, TVs or radios may have harmful effects on the operation of such equipment. Move as far away as possible from such items before use.
- Keep a separate memo and note information stored in the FOMA terminal. DOCOMO shall not be liable for any loss of content.
- Do not drop or otherwise subject the FOMA terminal to severe impact. May damage the handset and cause malfunction.

 When connecting an external connector device to the external connector terminal (earphone/microphone terminal), do not put it in obliquely or do not pull it while it is plugged in.

May damage the handset and cause malfunction.

- The FOMA terminal becomes warm during using or charging but this is not a malfunction.
- Do not leave the camera in direct sunlight. May cause discoloration or burn-in.
- Use the FOMA terminal with the external connector terminal cover and the HDMI terminal cover on.

Dust, water and others enter inside and cause a malfunction.

 Do not use the FOMA terminal without the back cover.

May detach the battery pack or cause malfunction or damage.

 While using a microSD Card, do not remove the card or turn off the FOMA terminal.

May cause data loss or malfunction.

 Never place a magnetic card near the FOMA terminal.

The stored magnetic data in cash cards, credit cards, telephone cards, floppy disks, etc. may be erased.

 Never place magnetized items near the FOMA terminal.

Putting highly magnetized items closer may cause an error.

### Notes about battery pack

- Battery pack is a consumable product. Though usage time varies with use, change battery if battery level is extremely low even after fully charged. Purchase a specified new battery pack.
- Charge battery in areas where ambient temperature is between 5°C and 35°C.
- The usage time for a battery pack depends on the usage and deterioration of battery pack.
- Depending on usage, the battery pack may swell as it approaches the end of its service life but this will not cause problems.
- Note the followings when the battery pack is stored.
  - The storage with the battery pack fully charged (immediately after charging is completed)
  - The storage with no battery level (cannot turn the FOMA terminal on)

May lower the performance or shorten the life of the battery pack.

The second level of the battery pack icon or approximately 40% is recommended as the battery level for storage.

### Notes about adapters

- Charge battery in areas where ambient temperature is between 5°C and 35°C.
- Do not charge battery pack in the following locations.
  - Areas with high humidity or dust or in areas exposed to strong vibrations
  - Close to landline phones, TVs, radios, etc.
- Adapters may become warm during charging but this is not a malfunction.
- Do not use DC adapter to charge battery when the car engine is not running. May cause car battery to run down.
- When using an outlet with a feature to prevent the plug from being removed accidentally, follow instructions in the outlet user's guide.
- Do not subject to strong force or impacts. Also, do not disfigure the charger terminals.

May cause a malfunction.

### Notes about UIM

- Do not apply unnecessary force when inserting/removing the UIM.
- Customer is responsible for malfunctions arising from inserting UIM into a different IC card reader/writer.
- Always keep IC area clean.
- Clean only with a soft and dry cloth (such as the type used for eyeglasses).
- Keep a separate memo and note information stored in the UIM.
   DOCOMO shall not be liable for any loss of content.
- To protect the environment, please take any unnecessary UIMs to a docomo Shop or retailer.
- Do not damage, touch haphazardly or short-circuit the IC.

May cause data loss or malfunction.

• Do not drop or otherwise subject the UIM to severe impact.

May cause a malfunction.

 Never bend the UIM or place heavy objects on it.

May cause a malfunction.

• Do not insert the UIM to the FOMA terminal with a label or sticker attached on the card.

May cause a malfunction.

## Notes on using Bluetooth<sup>®</sup> function

- The FOMA terminal supports the security function that meets the Bluetooth specification for the security during communication using Bluetooth function. However, the security may not be sufficient depending on the configuration. Take care of the security while making communication using Bluetooth function.
- Even if any leak of data or information occurs while making communication using Bluetooth function, DOCOMO shall not be liable for any loss of content.
- With the FOMA terminal, use headset, hands-free, audio, keyboard, dial-up communication, object push, basic imaging and serial port. Also, the audio/ video remote-control may be available depending on the audio (only with compatible Bluetooth devices).
- Radio frequencies

The radio frequencies the Bluetooth function of the FOMA terminal uses are as follows.



1 2.4: This radio equipment uses the

2.4 GHz band.

- ② FH: The modulation system is the FH-SS system.
- ③ 1: The estimated coverage distance is 10 m or less.

- ④ Control C
- Cautions on using Bluetooth devices Bluetooth operates at radio frequencies assigned to the in-house radio stations for a mobile object identifier that have to be licensed and is used in production lines of a factory, specific unlicensed low power radio stations, and amateur radio stations (hereafter, referred to "another radio station") in addition to industrial, scientific, medical devices or home electric appliances such as microwave overs.
  - 1. Before using this product, make sure that "another radio station" is not operating nearby.
  - 2. If radio interference between this product and "another radio station" occurs, avoid interference by moving immediately to another place or "turning off the power".
  - 3. Contact the number listed in "General Inquiries" on the back of this manual for further details.

### FeliCa reader/writer

- The FeliCa reader/writer function in the FOMA terminal uses weak electric waves in the handling of which does not require a license of radio station.
- The frequency in use is the 13.56 MHz band. When another reader/writer is being used nearby, keep enough distance from it. Make sure that there is no radio station using the same frequency band in the nearby area.

### Caution

## • Never use the FOMA terminal that is modified. Using a modified device violates the Radio Law.

The FOMA terminal has acquired the certification of conformity with technical regulations for the specified radio station based on the Radio Law, and the "Technical Conformity Mark 🖨 " is printed on the model nameplate of the FOMA terminal as a proof. If the screws of FOMA terminal are removed and a modification is given to the inside, the certification of conformity with technical regulations will become invalid. Never use the FOMA terminal without the valid

certification. Doing so violates the Radio Law.
 Be careful when using the FOMA terminal while driving a motor vehicle.

Using a mobile phone in hand while driving is regarded as a punishable act.

However, the punishment has no application in some cases such as when rescuing sick and injured people or maintaining public safety.

 Use the Bluetooth function only in Japan. The Bluetooth function in the FOMA terminal conforms to the domestic radio wave standards and is authorized. Using the function overseas may result in

punishment.

• Use the FeliCa reader/writer function only in Japan.

The FeliCa reader/writer function in the FOMA terminal conforms to the domestic radio wave standards. Using the function overseas may result in punishment.

## **Before Using**

### **Inserting UIM**

### A UIM is an IC card that records personal information, such as phone numbers, etc.

- The FOMA terminal does not support the UIM (blue). Change the UIM (blue) at a docomo Shop.
- 4

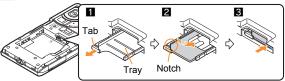
## Hook a finger on the tab and pull out the tray (

• Pull out the tray straight until it stops.

2 Hold the UIM with the IC (gold) turned up and set on the tray (2)

Notch

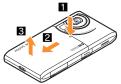
### 3 Push the tray all the way in (🖪)



• Note that inserting or removing the UIM forcibly may damage the UIM or deform the tray.

### Attaching battery pack

- Perform with the FOMA terminal turned off while holding with your both hands.
- Push the salient of the back cover in the direction of the arrow (1), slide the back cover approximately 3 mm (2) and remove it (3)



- Attach the battery pack (
  - Turn a recycle mark side of the battery pack up, match tabs and attach the battery pack.

Place the back cover to the FOMA terminal slot with the back

approximately 3 mm,

push it (5) and slide it (6) to the direction of

cover open

arrow to insert

Tabs

With a recycle mark side up

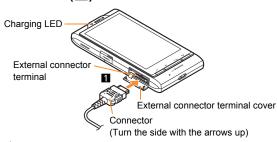


- Using unnecessary force when attaching or removing the battery pack may damage the connector terminal for the battery pack (charger terminal) on the FOMA terminal.
- Securely close the back cover. If not closed securely, the back cover may come off and the battery pack may fall out due to vibration.

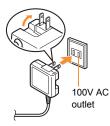
### Charging

### Charging by using AC adapter

- Read the user's guide of FOMA AC Adapter 01/02 (sold separately).
- Open the external connector terminal cover and insert the AC adapter horizontally into the external connector terminal (1)



When inserting the AC adapter power plug into an outlet, charge alert is heard, charging LED illuminates, and charging starts



### When charge alert is heard and charging LED turns off, charging is complete

• When removing the connector, always hold the release buttons on both sides (1) and unplug it horizontally (2).



• Do not forcibly insert or remove. May cause damage to the external connector terminal and the connector or result in malfunction.

### Turning power on



ত (for at least 2 seconds)

- Stand-by display appears when initial settings are complete.
- Press for at least 2 seconds to turn the power off.

### Changing screen display to English

In the Normal menu, [本体設定] (Setting) > [文字表示/入力] (Text display/input) > [Select language] > [English]

### Making initial setting

- If the setting of Password or Request permit/deny is not complete, the setting screen appears every time the power is turned on.
- Alternatively, in the Normal menu, [Setting] > [Other setting] > [Initial setting to display the setting screen.
- [Date and time setting] > set the date and time
- [Password] > register a terminal security code
- [Keypad sound] > set the keypad sound
- [Text size] > set the font size collectively
- [Request permit/deny] > set GPS location provision

### Checking your own phone number

1 In the Normal menu, [Profile]

Saving your own name and image

- In the Normal menu, [Profile]
- [Edit] > enter the terminal security code

Set each item > [Save]



### Changing mail address or configuring spam mail prevention

You can connect to the i-mode site for changing mail address or configuring spam mail prevention, etc. Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on setting method.

### In the Normal menu, [Mail] > [Mail setting] > [Address/Spam setting]



[Complete]

## **Screen Explanation**

### Viewing display



Icon display area

### Main icons

Ê	Battery level $\hat{\square} \rightarrow \hat{\square} \rightarrow \hat{\square} \rightarrow \hat{\blacksquare} \rightarrow \hat{\blacksquare}$ (High $\rightarrow$ Low)
<b>T</b> .0]	<ul> <li>Signal status</li> <li>Image: Image: Imag</li></ul>
<b>\$</b>	Hands-free
GPS GPS GPS 🔌	GPS
	i-mode mail/SMS/Area Mail/Information received
	i-appli
4 📼	Alarm/Schedule
8	Bluetooth
\$	Ir communication
1	i-mode

	UIM error
SELF	Self mode
<b>11</b> .	Music&Video Channel program reservation
36	3G
	VeilView
¥	USB connection
	Record message
뜲	Keypad dial lock
Q	Manner mode
<b>₩</b> ₩} <b>\$</b>	Silent/Vibrator
<del>6</del>	Public mode (Drive mode)
sd: 🚀	microSD Card
<b>*</b>	Software update
	IC card lock
	Music&Video Channel
CTT CTT	Personal data lock
	1Seg recording

### Checking notices with stock icon

Stock icons appear in the stand-by display and notify you when a call is missed or a new mail is received.

 Stock icons displayed differ depending on Display settings of Stand-by Accessory (27 P. 24).



UGW B .. C .. C .. 03/15 TUE 10:05 AM

When Display settings is [blow UI]

When Display settings is [OFF]

### Main meanings of marks

₿/ם: Missed call

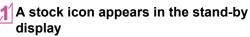
(m/:: Record message

📾 / 🔁 : Voice mail

Mail message

MENU: Display Normal menu/Basic menu/Shortcut menu

Small mark [@] appears when receiving a new mail with an image attached.



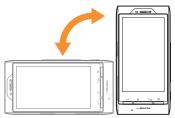
### 2 Select the stock icon

The stock icon disappears after you check the details.

### Switching vertical/horizontal view

The screen display is switched when tilting the head of the FOMA terminal to the left.

- Vertical/Horizontal view is not switched if the FOMA terminal is turned in the place parallel to the ground.
- The screen display may not be switched depending on functions being used or screens.
- The screen display may not be switched properly when a sound or a vibration is activated.
- Vertical/Horizontal view may not appear properly right after the screen or power is turned on.
- You can set the display not to automatically switch. In addition, use HOLD switch view button or set from submenu to prevent the screen display from temporarily switching.
- Screens which can be displayed differ depending on functions.



## Basic Operation

### Using Stand-by accessory

Touch an accessory icon or a shortcut displayed in the stand-by display to perform functions such as the menu or the Quick Settings. Also, you can switch the screen to the left/right to make a call, to create mail or to display an image quickly. In addition, you can change the design of Stand-by accessory in Display settings of Stand-by Accessory (@P. 24).

HOME screen and still picture accessory screen are available in horizontal view.



- Handwriting/Message display icon
- Folder selection icon
- 4 Thumbnail icon
- Registering abbreviation
  - Register phone numbers or mail addresses to make a call or create a mail just by sliding up/down.
- Received mail history/Sent mail history
  - The latest four histories except duplicates are displayed.

### Registering abbreviation icon

- Select to set the registering abbreviation.
- Sent/Received history icon

- Sent history icon
- Received history icon
- i-Channel ticker
- 2 Accessory icon/Shortcut attaching area
  - You can slide up/down the screen to switch the displayed area. The screen corresponding to approximately three displays can be switched
- Received calls history/Redial
  - The latest four histories except duplicates are displayed.
- Dialed/Received calls history icon
- Redial icon
- Received calls history icon

### Setting Stand-by accessory



In the Normal menu, [Setting] ▶ [Screen/ Display] ▶ [Stand-by display setting] ▶ [Stand-by Accessory]

[Display settings] > select the setting

### **Resetting accessory icon/shortcut**

Reset accessory icons/shortcuts to default.

1 Touch the HOME screen for a while 2 [Add Icon] ▶ [RESET] ▶ [OK]

### Setting and selecting menu

### Set, change or register functions from the menu screens.

The explanations in this manual are based on the method for retrieving a function from the Normal menu.

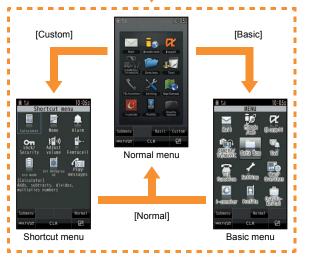
### **Displaying each menu**

Select [MENU] in the stand-by display to display Normal menu, Basic menu and Shortcut menu.



### [MENU]

 You can change the menu which is displayed when you select [MENU] (@P. 35).



### **Operation guidance**

### Various buttons such as operation guidance are displayed at the bottom of the screen.

 Buttons displayed differ depending on the function. In addition, they may appear as the control key or submenu if you switch the vertical/ horizontal view. In addition, the shape of control key or the displayed characters may appear differently depending on the vertical/horizontal view or operations, etc.



### Operation guidance

• Touch to select/execute the operation guidance menu.

### MULTI button

 Touch to use Multi Assistant. Touch for a while to set/disable. VeilView

### CLR button

• Touch to return to the previous screen or delete the entered numbers or characters. Touch for a while to exit the running function and return to the stand-by display.

### 4 HOLD switch view button

 Touch to prevent the FOMA terminal from temporarily switching horizontal/vertical view by tilting it.

### Operation guidance menu

In the operation guidance, menus appear according to the function being used and situation.

The following table describes examples of the main operation guidance menus that appear.

OK	Set selected item
Submenu	Display the submenu
Agree	Check selected image or music, etc.
Back	Return to the previous screen
Show all	Display sorted files as a list
Cancel	Cancel an operation such as receiving mail
SelAll/CIrAll	Select/Disable all selectable items
Close	Close the submenu screen etc.

### Menu operation

- For details on the available functions P 89
- The method for selecting functions may differ depending on the Kisekae tool set for the Normal menu

The way of activating alarm is explained as an example below.



### Selecting a function from submenu

Functions (submenu) that can be used in the screen appear by selecting [Submenu] or [

If there are multiple pages in submenu, change pages by sliding up/ down the part on which submenu is displayed.

• In the stand-by memo, touch a memo for a while to display.

### **Using touch panel**

You can operate by touching the touch panel (display) directly with your finger.

- In this manual, the touch panel operation in vertical view is mainly explained.
- When the screen is off, you cannot operate the touch panel. For the method to display the screen again and operate touch panel
   P. 27

### Cautions when using the touch panel

- The touch panel is designed to lightly touch with your finger. Do not forcefully press with your finger or press with a pointed object (fingernail, ballpoint pen, pin, etc.).
- In the following cases, the touch panel may not work even if you touch it. May cause a malfunction.
  - Operation with a gloved finger
  - Operation with a fingernail
  - Operation with foreign objects placed on the operation pad
  - Operation on the touch panel on which a protective sheet or a sticker is put

### Basic operation of touch panel

Operation	Main purpose
<ul> <li>Fouch</li> <li>Put your finger on the touch panel and put it off.</li> </ul>	<ul> <li>Select/OK</li> <li>Touch a button displayed on the screen.</li> </ul>
<ul> <li>Touch for a while</li> <li>Keep your finger on the touch panel.</li> </ul>	<ul> <li>Continuous operation</li> <li>For fast reverse/forward etc., touch a button displayed on the screen for a while to operate continuously.</li> <li>Select an item</li> <li>Touch the item displayed on the screen for a while.</li> </ul>
Slide	<ul> <li>Scroll the screen</li> <li>Slide up/down/left/right while viewing sites, etc.</li> <li>Cancel the selection</li> <li>When you touch a menu or item by mistake, slide away from the menu or item.</li> </ul>

Operation	Main purpose
Quickly slide	<ul> <li>Switch pages</li> <li>Quickly slide to the left/right in the menu screen, etc.</li> <li>Display previous/next data</li> <li>Quickly slide to the left/right while displaying an image or a mail, etc.</li> </ul>
Put a distance between two fingers apart/closer	<ul> <li>Zoom in/out</li> <li>Put a distance between two fingers apart/closer while displaying an image.</li> </ul>
Touch "CLR"	Cancel/End ● Touch "CLR" (when the button is displayed).

### Locking touch panel

Lock the touch panel to prevent errors by turning the screen off.

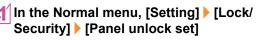
### While the screen is turned on, $\mathbb{W}/\mathbb{T}$

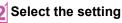
• The display is also turned off if you do not use the FOMA terminal for a set length of time.

### When the screen is turned off

- You can operate the touch panel if you perform the following operations according to Panel unlock set.
  - Two-step unlock: Touch panel lock screen appears by pressing any key (except () (side key)). Touch [▲] (UNLOCK) or press [₩], [] to unlock to operate the touch panel.
  - Simple unlock: The screen appears by pressing any key (except () (side key)) and you can operate the touch panel.
- While the camera is being activated or i-motion is being played, etc., the touch panel may not be locked depending on running functions.

### Setting unlock method of touch panel lock





### Using Quick voice activation

X Quick voice activation function is provided in Japanese. You can retrieve and execute a function with voice in the stand-by display.

It is convenient when you cannot find the menu of function to use or when you want to activate a function immediately.

In stand-by, [7] (for at least 1 second)

### When [それではどうぞ ★★音声受付中★ $\star$ ] (Go ahead $\star \star$ Receiving voice $\star \star$ ) appears, speak the function to use to the mouthpiece

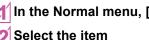
- Speak within approximately 10 seconds. When you stop speaking or approximately 10 seconds past, voice activation ends and applicable function is activated.
- Guide (in Japanese only) is activated when the function to be used is not specified.
- In the following cases, Quick voice activation may not work properly.
  - When the voice is too loud or too low
  - When the surrounding noise is big
  - When the phonation is not clear
  - When the phonation is not natural or too fast

### Using Guide

X Guide function is provided in Japanese.

Use this function when you do not know the operation method of FOMA terminal. Guide appears and you can check the explanations and operation methods of each function. Also, you can activate functions directly from Guide.





In the Normal menu, [Tool] > [Guide]

Select the item

## **Character Entry**

### **Entering characters**

Enter characters for functions such as phonebook and mail on the FOMA terminal.

You can switch 12 buttons entry mode and QWERTY entry mode to enter the characters.

• The explanations in this manual are based on method for entering characters in 5-touch entry method.

### Switching entry modes

Switch entry modes to enter various types of characters.





Items to switch

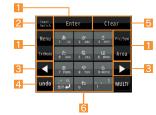
### 2 Select the entry mode

Kanji/Hiragana
Double-byte katakana
Single-byte katakana
Kuten code
Double-byte alphabet characters (lower case $\rightarrow$ upper case)
Single-byte alphabet characters (lower case → upper case)
Double-byte numbers
Single-byte numbers
Double-byte alphabet characters (upper case $\rightarrow$ lower case)
Single-byte alphabet characters (upper case → lower case)

### **Character entry screen**

• The following touch buttons are available in the character entry screen.

### Example: Kanji/Hiragana/Vertical view



### Operation guidance buttons

• Touch to select/execute the operation guidance menu.

### 2 Input Switch button

• Switch to QWERTY entry mode.

### E Direction buttons

• Touch to move the cursor or enter a half-width space.

### 4 undo button

- Cancel the previous operation.
  - · Appears after a character is entered.

### Clear button

Touch to delete a character etc.

### Character entry buttons

Touch to enter a character etc.

### **Entering characters**

### Example: When entering "電話"

### In the character entry screen, enter "でんわ"

- To enter "でんわ": [た] (four times) ▶ [<sup>°</sup>大/小↓] (once) ▶ [わ] (three times) > [>] > [わ] (once)
- To enter multiple characters assigned to the same touch button: Enter a character > [>]> enter a character



[Enter]

### **Using flick entry**

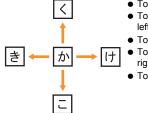
On flick entry, you can enter an assigned character or use a function by auickly sliding up/down/left/right the touch button supporting the flick entry.

- Set flick entry to [ON] in advance.
- Flick entry is available only in vertical view.



Touch button supporting flick entry

### **Operations for character entry**



- To enter "か": [か]
- To enter "き": Quickly slide [か] to the left
- To enter "< ": Quickly slide [か] up
- To enter "け": Quickly slide [か] to the right
- To enter "こ": Quickly slide [か] down

Example: When entering "電話"

### In the character entry screen, enter "でんわ"

- To enter "でんわ": Quickly slide [た] to the right > [°大/小↩] ▶ quickly slide [わ] up ▶ [▶] ▶ [わ]
- To enter multiple characters assigned to the same touch button: Enter a character > [>]> enter a character

### [Convert] [Enter]

### Using error correction conversion

[Error correct] may appear when entering wrong character which is assigned to the same touch button. Select [Error correct] to display the corrected conversion candidate in the conversion candidates field

ut tch	Enter		Enter Clear				T.I				10:05
ct		2 MBC	3 011	Convert		ر خو	ぃわ				10000
na	4 GHI	5 JKL	6 MNO	Pic-D			012				
	7 PORS	8 TUV	9 WXYZ					t conve			1/8
D	<b>◎</b> 秋	o <sup>わ</sup>	、, ? !	Error correct		*	h			♥ 談書	
						6	TE				
	Error correction button						C	rror c onver andid	sio	n	

10:05#

### Entering pictograms/symbols

### In the character entry screen, [Pic/Sym]

- To switch to pictogram: [Pictog····]
- To switch to Deco-mail pictogram: [Pic-D]
- To switch to single-byte symbols: [Symbol-S]
- To switch to double-byte symbols: [Symbol-L]

### Select a candidate

### Using phrases

- ∬In the character entry screen, [Menu] ▶ [Quote phrase/data] ▶ [Phrase]
- 2 Select a phrase

### **Entering emoticons**

- - For a mail message: In the character entry screen, [Menu] ▶ [Quote phrase/data] ▶ [Pict/Symbol/Smiley] ▶ [Smiley]



### Select a category ▶ select an emoticon

### **Copying/Cutting characters**

### In the character entry screen, [Menu] ▶ [Copy]/[Cut]

● For a mail message: In the character entry screen, [Menu] ▶ [Copy/Cut/etc.] ▶ [Copy]/[Cut]

### Point the cursor to the start position ▶ [Enter]

 For a mail message: Point the cursor to the start position > [Start]

### 3 Point the cursor to the end position ▶ [Enter]

- For a mail message: Point the cursor to the end position > [Copy]/[Cut]
- The highlighted text string is copied/cut.

### **Pasting characters**

- In the character entry screen, point the cursor to the paste position ▶ [Menu] ▶ [Paste]
  - For a mail message: In the character entry screen, [Menu] > [Copy/Cut/etc.] > [Paste] > point the cursor to the paste position > [Paste]

## Sound/Screen Setting

### Changing ring tone

In the Normal menu, [Setting] > [Sound/ Vibration/Manner] [Ring tone]



### Select an item

- [Call ring tone] > select an item
- [Videophone]
- [Mail] > select an item



### Set each item > [Set]/[Register]

### Changing ring tone volume

In the Normal menu, [Setting] > [Sound/ Vibration/Manner] [Adjust volume]

### Select an item

- [Alert/Call volume] > select an item > keep touching the volume bar and slide up/down
- Mail/Msg. alert vol keep touching the volume bar and slide up/down

### Changing sound volume when touching display

- In the Normal menu, [Setting] > [Sound/ Vibration/Manner] > [Adjust volume]
- [Operation sound] > keep touching the volume bar and slide up/down

### Setting vibrator

You can set the vibration for incoming calls, GPS positioning, alarms, using i-appli and operating the touch panel.



In the Normal menu, [Setting] > [Sound/ Vibration/Manner] [Vibration mode]



Select an item

- Select the vibrator
- Note that if you set the vibrator and put the FOMA terminal on a table, it may fall due to vibration.

### Using manner mode

### You can switch the FOMA terminal to mute.

- The following sounds are heard even while the manner mode is set.
  - Shutter sound of camera
  - Record start/end sound of camera
  - Start/End sound of voice recorder
- The vibrator is activated regardless of the manner mode settings when the earthquake early warning is received. In addition, when any of the following sounds is set to ring in Personalized, the dedicated alarm tone (beep sound) also sounds.
  - Touch sound
  - Keypad sound Mail alert volume Alarm sound
- Call alert volume Low battery alert

### In the Normal menu, [Setting] > [Sound/ Vibration/Manner] > [Silent mode]

### Select a type

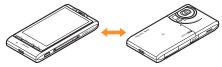
- General
- [Personalized] > set each item > [Set]
- [Silent manner mode]
- [] appears when the manner mode is set.

### Stopping ring tone or alarm sound with motion silent

Even if manner mode is not set, you can stop the ring tone, alarm tone, timer sound, etc. temporarily by turning the FOMA terminal back.



Turn the FOMA terminal back while a call is being received or alarm sounds



### Using motion silent

- In the Normal menu, [Setting] > [Sound/ Vibration/Manner] [Motion silent]
- Select the setting

#### Changing screen setting

#### Changing stand-by display

In the Normal menu, [Setting] > [Screen/ Display] > [Stand-by display setting] > [Image/i-αppli]

#### Select an item

- Vertical position
  Select an item
- [Horizontal position] > select an item

#### Making display hard to see from people around

Display the pattern (design or animation) on the screen to prevent others from seeing the screen.

#### In the Normal menu, touch [MULTI/2] for a while

• [] appears when VeilView is set.

#### **Disabling VeilView**

• In the Normal menu, touch [MULTI/2] for a while

#### Changing menu display

You can set the start menu which is displayed when you select [MENU] in the stand-by display.

#### In the Normal menu, [Setting] > [Screen/ Display] | [Menu preference]

#### [Select startup menu] > select a menu

- Following items can be set.
  - Normal menu: You can select the preset Kisekae tool (@P. 36) and set it. Each Kisekae tool consists of different functions and designs. Also, download Kisekae tool from a site etc
  - Basic menu: You can select an icon displayed on the menu to retrieve the function.
  - Shortcut menu: You can register functions frequently used. people or groups and create an original menu.

#### **Changing font size**



In the Normal menu, [Setting] > [Text display/input] | [Font size]



Select an item > select the font size

#### **Changing Machi-chara setting**

A character appears in the stand-by display when you set Machi-chara.

#### In the Normal menu, [Setting] ▶ [Screen/ Display] ▶ [Machi-chara setting]

#### 2 [Display setting] ▶ set each item ▶ [Set]

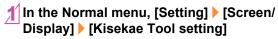
#### Setting to talk with Machi-chara

You can set whether to output Machi-chara voice when you use Quick voice activation (in Japanese only).

- ・ Pre-installed (メイちゃん) and [セイリアン] are compatible with Machi-chara chat setting.
- In the Normal menu, [Setting] ▶ [Sound/ Vibration/Manner] ▶ [Machi-chara chat setting]
- 2 Select the setting

#### Setting Kisekae tool

You can change the Normal menu screen, stand-by display, menu icon, ring tone, etc. collectively.



#### Point the cursor to Kisekae tool ▶ [Setting] ▶ [Yes]

• To check data: Select Kisekae tool (to display the data list screen in Kisekae tool) > select data

#### Setting illumination

- In the Normal menu, [Setting] > [Backlight/ Illumination] > [Light alert]
- 2 Select an item
- 3 Set each item <a>[Set]</a>

When selecting illumination pattern and illumination color, you can check flashing pattern or color of illumination by pointing the cursor to the pattern and color.



# **Basic Operation**

#### Checking missed calls or new mails

#### 1

#### In the Normal menu, [Setting] > [Screen/ Display] > [Each display setting]



#### [Info display & light] > select an item

Following items can be set.

- Caller/Sender info: Set whether to display phone numbers, name, etc. registered in phonebook when receiving a call or mail.
- Indicator light: LED flashes at approximately 4-second intervals and notifies you of missed calls and new mails.

#### Setting eco mode

In the Normal menu, [Setting] ▶ [Battery] ▶ [eco mode]

• [
] appears when eco mode is set.

Alternatively, [Quick set] > [eco mode] in the stand-by display to set.



#### Setting light of display

#### In the Normal menu, [Setting] ▶ [Backlight/ Illumination] ▶ [Display light]

#### 2 Select an item

- [Display light time] > select an item > select the setting
- You can set the length of light time for each function when the FOMA terminal is not in use for a set length of time.
- [Light time-out] > select the time
  - Display is turned off when the FOMA terminal is not in use for a set length of time.
- ◆[Brightness] > [Bright▲]/[Dark▼]
  - You can select from five display brightness levels. Check brightness with adjusting.
  - ON/OFF of brightness sensor: [check]/[Clear]
    - The display brightness is automatically adjusted according to the surrounding light if you use brightness sensor.

## Lock/Security

#### Various security codes

Some functions for convenient use of the FOMA terminal require security codes.

#### Precautions for various security codes

- Do not use easily estimated numbers for security codes to be set such as "birthday", "part of a phone number", "address or room number", "1111" or "1234". Keep a separate memo of security codes.
- Keep security codes private. If the security codes are found and improperly used by others, DOCOMO shall not be liable for any loss of the users.
- If you forget your security codes, you are required to bring your identification (a driver's license, etc.), your FOMA terminal and your UIM to a docomo Shop.

For further details, contact the number listed in "General Inquiries" on the back of this manual.

 PUK (PIN Unlock Key) is described in the agreement form (customer copy) you received at the time of subscription at a docomo Shop. If you made a subscription outside a docomo Shop, bring your identification (a driver's license, etc.) and your UIM to a docomo Shop or contact the number listed in "General Inquiries" on the back of this manual.

#### Terminal security code

#### (Default: 0000)

• If you enter the wrong terminal security code five times continuously, the power is turned off.

#### Changing terminal security code

- In the Normal menu, [Setting] ▶ [Lock/ Security] ▶ [Change security code] ▶ enter the current terminal security code
  - Enter the new terminal security code
- Enter the new terminal security code again



#### Network security code (At subscription: Set any code)

Network security code is a four-digit code required for confirming the subscriber's identity when an order is received at a docomo Shop, docomo Information Center or "お客様サポート" (user support) (in Japanese only) or used for accessing various network services.

#### Changing network security code

#### In the Normal menu, [i-mode/web] 🕨

[iMenu Q Search] ▶ [お客様サポート] (user support) ▶ [各種設定 (確認・変更・利用)] (settings (check/change/use)) ▶ [ネット ワーク暗証番号変更] (change network security code)

#### i-mode password

#### (At subscription: 0000)

A four-digit "i-mode password" is required to register/delete sites in  $\forall \land \checkmark = \square -$  (My menu) or subscribe/cancel message services and charged i-mode services (Additionally, information providers may set their own passwords).

#### Changing i-mode password

#### In the Normal menu, [i-mode/web] [iMenuඏSearch] ▶ [ENGLISH] ▶ [Options] ▶ [Change i-mode Password]

#### PIN1 code/PIN2 code

(At subscription: 0000)

You can set two security codes, PIN1 code and PIN2 code, on the UIM. The PIN1 code is a four- to eight-digit security code that is entered when a UIM is inserted in the FOMA terminal or when the FOMA terminal is turned on to prevent unauthorized use by a third party. Enter the PIN1 code to enable making/receiving calls and operating the handset. The PIN2 code is a four- to eight-digit security code that is entered for performing operations such as resetting total call cost, using client certificates or applying for.

• If you enter the wrong PIN1 code or PIN2 code three times continuously, it is locked.

#### Setting PIN code

#### In the Normal menu, [Setting] ▶ [Lock/ Security] ▶ [UIM setting]

#### 2 Select an item

- ◆[Change PIN1 code] ▶ enter the terminal security code ▶ enter the current PIN1 code ▶ enter the new PIN1 code ▶ enter the new PIN1 code again ▶ [Save]
  - When the PIN1 entry ON/OFF is set to [OFF], you cannot change the PIN1 code.
- [Change PIN2 code] > enter the terminal security code > enter the current PIN2 code > enter the new PIN2 code > enter the new PIN2 code again > [Save]
- ◆ [PIN1 entry ON/OFF] ▶ [ON] ▶ enter the PIN1 code
  - You can set to enter the PIN1 code when the power is turned on.

#### PUK (PIN Unlock Key)

You cannot change the code.

PUK is an eight-digit number used to disable the PIN1/PIN2 code lock.

• If you enter the wrong code ten times continuously, the UIM is completely locked. In this case, contact a docomo Shop.

#### Various lock functions

Lock function	Operation/Restriction	
All lock	<ul> <li>Prevents all operations other than power on/off and answering calls/videophone calls.</li> <li>Enable: In the Normal menu, [Setting] &gt; [Lock/ Security] &gt; [Lock settings] &gt; [All lock] &gt; enter the terminal security code</li> <li>Disable: In stand-by, [All locked] &gt; enter the terminal security code</li> </ul>	
Omakase Lock	<ul> <li>Omakase Lock is a service to lock the personal dat and IC card functions in case of loss, etc. by only yo request to DOCOMO via phone.</li> <li>Set/Release Omakase Lock</li> <li>Ot20-524-360 Office hours: 24 hours (in Japanese only) (open all year round)</li> <li>Unavailable from part of IP phones.</li> <li>Omakase Lock can also be set/released from the My docomo website using PCs.</li> <li>Refer to "Mobile Phone User's Guide [Basic Usage]" for details on Omakase Lock.</li> </ul>	
Self mode	Prevents communication such as calls, i-mode mails, i-mode, iC communication or Ir communication. ● Enable/Disable: In the Normal menu, [Setting] ▶ [Other setting] ▶ [Self mode] ▶ select the setting ▶ [Yes]	
Personal data lock	Prevents the display of mail, personal information, etc. ● Enable/Disable: In the Normal menu, [Setting] → [Lock/Security] → [Lock settings] → [Personal data lock] → enter the terminal security code → select the setting	

Lock function	Operation/Restriction	
Keypad dial lock	<ul> <li>Prevents calls or i-mode mails/SMS to a number not registered in the phonebook.</li> <li>Enable/Disable: In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Keypad dial lock] ▶ enter the terminal security code ▶ select the setting</li> </ul>	
Display off lock setting	<ul> <li>Prevents touch panel or key operation automatically when set time passed after the display disappeared.</li> <li>Enable/Disable: In the Normal menu, [Setting]   [Lock/Security]   [Lock settings]   Display off lock setting]   enter the terminal security code   set each item   [Save]</li> <li>Disable temporarily: Press any key (except 0 (side key)) to show the display   enter the terminal security code</li> </ul>	
IC card lock	Locks to prevent the use of IC card functions. ● Enable/Disable: In the Normal menu, [Osaifu-Keitai] ▶ [IC card lock setting] ▶ [IC card lock] ▶ enter the terminal security code ▶ select the setting	

#### **Incoming call restriction**

#### Setting response to a call with no caller ID

You can set different responses when caller ID is not sent, depending on the non-disclosure reason.

- The following are the types of non-disclosure reason.
- Anonymous Payphone

Unavailable

In the Normal menu, [Setting] | [Lock/ Security] > [Call rejection setting] > enter the terminal security code

Select the reason

Set each item > [Set]

Rejecting a call from a caller unset in phonebook

- In the Normal menu, [TEL function] > [Dial/ Receive call setting] > [Reject/Accept call]
- [Unregistered caller] > enter the terminal security code > select the setting

#### **Resetting to default**

#### **Resetting various functions**

- In the Normal menu, [Setting] > [Other setting] [Reset]



- Enter the terminal security code
- Select an item [Reset] [Yes]

#### Deleting registered data collectively

You can delete all saved data and reset the settings of each function to default

- Protected data in the FOMA terminal is also deleted.
- In the Normal menu, [Setting] > [Other] setting] > [Delete all data]



Enter the terminal security code > [Yes]

## Call

#### Making a voice/videophone call

- Since the FOMA terminal does not have a camera inside, an image sent to the other party is Chara-den, a still picture or a moving picture the camera on the back side is taking.
- DOCOMO videophones comply with "3G-324M as defined by the international 3GPP standard". Connection is not available with videophones using other standards.

#### Making a call by entering a phone number

• Start with the area code.

#### <mark>2</mark> [*イ* ] (Phone)/[VP Call]

Operation guidance during a voice call

• To enable/disable Triple Kukkiri Talk: [TKT ON]/[TKT OFF]

#### to end the call

#### Making a call from phonebook

In the Normal menu, [TEL function] ▶ [Phonebook] ▶ [Search phonebook]



- Select the search method
- 3 Select the name
- [/[/] (Phone)/[VP Call]

#### Making a call with redials/received calls

- In the Normal menu, [TEL function] 🕨
- □ [Dialed/Received calls] ▶ [Received calls]/ [Redial]
- 2 Select the history
- 3 [́ [ ́ ] (Phone)/[VP Call]

## Notifying the other party of your phone number

You can display your number (caller ID) on the other party's phone (display) when you make a voice or videophone call.

 When you hear a message requesting caller ID, activate Caller ID notification or put "186" and make a call again.

#### In the Normal menu, [TEL function] ▶ [Dial/ Receive call setting] ▶ [Caller ID notification]

[OK] | Setting | Select the setting | [OK]

#### Making an international call

WORLD CALL is an international calling service available from DOCOMO mobile phones.

WORLD CALL is registered when FOMA services are registered (excluding users who did not apply for WORLD CALL).

- WORLD CALL charges are billed with the monthly mobile phone charges.
- Commission and monthly usage fees are free.
- For details on WORLD CALL, contact the number listed in "General Inquiries" on the back of this manual.
- To make an international call through a company other than DOCOMO, contact the representative companies directly for instructions.
- Some payment plans may not be available.

#### In stand-by, ∠ ▶ enter "+" (touch [0/+] for a while), country code, area code (city code) and phone number

 When the area code (city code) begins with "0", omit the "0" when dialing (Include "0" when making a call to some countries or regions such as Italy).

#### 2́ [́́́ / ] (Phone)/[VP Call] 3́ [Yes]

#### Receiving a voice/videophone call

## When a call is received, the ring tone sounds and the called LED flashes

- When the caller does not send a caller ID, a non-disclosure reason message appears.
  - · [User Unset]: When the caller purposely withholds caller ID
  - [PublicPhone]: When the call is received from a payphone
  - [Unavailable]: When the caller cannot send a caller ID, such as when the call is received from overseas or ordinary (landline) telephones via various transfer services

🕝 to end the call

1

#### Adjusting earpiece volume

During a call, [⊄∅] keep touching the volume bar and slide up/down

#### When you cannot answer a call

## Setting record message (voice/videophone calls)

If you set record message, the FOMA terminal answers a call and records the caller's message when you cannot answer.

#### In the Normal menu, [TEL function] ▶ [Record message/Voice memo] ▶ [Record message]

2 [ON]

 Recorded contents may be lost due to malfunctions, repairs or other handling of the FOMA terminal. DOCOMO shall not be liable for any loss of content. It is recommended that a memo be kept of contents for record message (voice/videophone calls).

#### Playing record message

- In the Normal menu, [TEL function] ▶ [Record message/Voice memo] ▶ [Record message list]
- Select a message



Connect

## Connect

#### Setting Public mode (Drive mode)

When Public mode (Drive mode) is set, the caller hears a message stating that you are driving or otherwise unable to speak and the call is disconnected.

• A ring tone does not sound when a voice/videophone call is received. The stock icon [[5]/[**b**] appears on the display and the call is saved in Received calls.

#### <mark>[</mark> In stand-by, [Quick set] ▶ [Public mode]

**Disabling Public mode (Drive mode)** 

• In stand-by, [Quick set] > [Public mode]

#### Setting Public mode (Power off)

If Public mode (Power off) is set, when a call is received with the power turned off, the caller hears a message stating that you are in a place that does not allow the use of mobile phone and the call is disconnected.



**Disabling Public mode (Power off)** 

#### Using various network services

 The following network services of DOCOMO are available in the FOMA terminal.

Service name	Subscription	Monthly fee
Voice Mail Service	Necessary	Fees apply
Turned Off or Out of Range Notification Call Service	Not necessary	Free
Call Waiting Service	Necessary	Fees apply
Call Forwarding Service	Necessary	Free
Nuisance Call Blocking Service	Not necessary	Free
Caller ID Notification Service	Not necessary	Free
Caller ID Display Request Service	Not necessary	Free
2in1	Necessary	Fees apply
Public mode (Drive mode)	Not necessary	Free
Public mode (Power off)	Not necessary	Free
Dual Network Service	Necessary	Fees apply
English Guidance	Not necessary	Free
Multi Number	Necessary	Fees apply
OFFICEED	Necessary	Fees apply
Melody Call	Necessary	Fees apply

- Network services are not available outside the service area or in a place with no signal.
- "OFFICEED" is a service that requires a subscription. Refer to the DOCOMO website for corporations (in Japanese only) (http:// www.docomo.biz/html/service/officeed/) for further information.
- Refer to "Mobile Phone User's Guide [Network Services]" for details on each network service.
- For subscription and inquiries, contact the number listed in "General Inquiries" on the back of this manual.

#### **Setting Voice Mail Service**

- In the Normal menu, [TEL function] ▶ [Voice mail service]
- [Activate] ▶ [Yes] ▶ [Yes] ▶ enter the ringing time ▶ [OK]

#### Setting Call waiting service

- In the Normal menu, [TEL function] ▶ [Other network service] ▶ [Call waiting]

#### **Setting Call Forwarding Service**

- In the Normal menu, [TEL function] ▶ [Other network service] ▶ [Call forwarding]
- [Activate] ▶ [Yes] ▶ [Yes] ▶ enter a phone number ▶ [Complete] ▶ [Yes] ▶ enter the ringing time ▶ [OK]

#### Emergency call

Emergency calls	Phone number
Emergency call to police	110
Emergency call to fire station/medical assistance	119
Emergency call at sea	118

- The FOMA terminal supports "Location notification of emergency call".
  - When dialing an emergency number such as 110, 119, and 118. the information of your location (location information) is automatically notified to the agency that receives the emergency call (e.g. the police station). Depending on your location and the reception status of the signal, the agency that received the emergency call may not be able to confirm the exact location. If the location information is notified, the name of the agency that received the emergency call is displayed on the screen. If you are not sending your caller ID by calling with "184" added or other means, your location information and phone number are not notified. However, if the agency that received the emergency call considers your location information and phone number necessary for important purposes, such as life saving, the agency can retrieve them regardless of your settings. In addition, the area/ timing to introduce "Location notification of emergency call" depends on the state of preparation in each agency that receives emergency calls.
- When calling 110, 119, and 118 from your FOMA terminal, the police or fire stations may return your call for verification purposes. State that you are calling from a mobile phone, and give your phone number and exact location.

Remain stationary to ensure that you are not disconnected while making an emergency call, and keep handset turned on to receive calls for approximately 10 minutes afterwards.

- Depending on the region, calls to the police or fire station may not be connected.
- If you call 110, 119 or 118 by videophone with the FOMA terminal, the call is disconnected. When Auto redial as voice is set to [ON], the call is automatically switched to the voice call and made again.

#### Using overseas

International roaming (WORLD WING) is a service that enables you to use the same FOMA terminal as you use in Japan in the service area of DOCOMO affiliated overseas telecommunications carriers without changing your phone number and mail address. You can use voice calls, SMS and i-mode mail without any changes in settings.

#### Available area

You can use the FOMA terminal in the 3G network service area. In addition, this service is available in countries and regions supporting 3G 850 MHz. Check the available area. You cannot use the FOMA terminal in GSM network/GPRS network service area.

#### Refer to the following before using the FOMA terminal overseas.

- "海外ご利用ガイド" (in Japanese only) pre-installed in [My document] of Data box
- "Mobile Phone User's Guide [International Services]"
- DOCOMO International Services website

#### Subscription

 Check the status of a subscription for WORLD WING. For details, contact "General Inquiries" on the back of this manual.

#### Charge

- Overseas charges (call charges, packet transmission charges) differ from those in Japan.
- When a call is received during international roaming, the call is forwarded from Japan. Call charges to Japan are incurred by the caller and receiving charges by the receiver.

#### Inquiries

 When the FOMA terminal or the UIM is lost or stolen overseas, promptly contact DOCOMO and conduct a procedure for canceling the use of service from your country of stay. Refer to "General Inquiries" on the back of this manual for inquiries. Note that transmission/calling charges after the FOMA terminal or the UIM is lost or stolen are incurred to the subscriber.

#### Available services overseas

Communication service	3G
Voice call <sup>*1</sup>	0
Videophone <sup>*1</sup>	0
SMS*2	0
i-mode <sup>*3</sup>	0
i-mode mail	0
i-Channel <sup>*3, 4</sup>	0
i-concier <sup>*5</sup>	0
i-Widget <sup>*6</sup>	0
Packet transmission by connecting a PC	0
GPS position location*7	0

- \*1 When the 2in1 is used, calling from Number B is not available. When Multi Number is used, calling from Additional Number is not available.
- \*2 Enter the same phone number as used in Japan when sending to the FOMA terminal.
- \*3 Overseas use settings for i-mode is required.
- \*4 Overseas use settings for i-Channel is required. Packet transmission charges for automatically updating information provided by Basic Channel are incurred (included in i-Channel usage fee in Japan).
- \*5 Overseas use settings for i-concier is required. Packet transmission charges are incurred for each information reception.

- \*6 i-Widget overseas use setting is required. Multiple Widget Appli may attempt transmission when i-Widget screen appears. In such case, packet transmission charges are incurred for each transmission.
- \*7 Charges are not incurred for GPS positioning. However, packet transmission charges are incurred such as when you display a map based on the location information.
- Some services are not available depending on the telecommunications carrier or network.
   Refer to "Mobile Phone User's Guide [International Services]" or the DOCOMO International Services website for information on available countries and regions, and telecommunications carriers.

## Making a call to outside the country you stay in (including Japan)

Make a call from your country of stay to Japan or other countries.

#### In stand-by, → enter "+" (touch [0/+] for a while), country code, area code (city code) and other party's phone number

 When the area code (city code) begins with "0", omit the "0" when dialing (Include "0" when making a call to some countries or regions such as Italy).

#### 

#### Making a call in country you stay

You can make a domestic call in your country of stay in the same way as you do in Japan.

## 1 In stand-by, ▶ enter a phone number 2 [ ↑] (Phone)/[VP Call]

#### Making a call to WORLD WING user overseas

When you make a call to a WORLD WING user overseas, you make a call as an international call to Japan regardless of your country of stay.

In stand-by, ∠ ▶ enter "+" (touch [0/+] for a while), country code "81" (Japan) and the other party's mobile phone number excluding the first "0"

#### 2 [́ [ ́ ] (Phone)/[VP Call]

## Mail

You can exchange mails with other i-mode terminals and e-mail via the Internet by subscribing to i-mode service. You can attach up to ten files (pictures, moving picture files, etc.) in total of 2 MB to a message. Also, Deco-mail is available. You can easily send an expressive mail by changing character color and size or background color and inserting Deco-mail pictograms.

Moreover, Flash movie Decome-Anime with a message or image inserted is available.

• Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-mode mail.

#### Sending i-mode mail

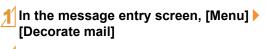
- In the Normal menu, [Mail] ▶ [Compose message]
- 2 Select the TO field > enter a destination
- Select the SUB field > enter a subject
- [Message] 🕨 enter a message
- 5 [Send]

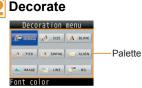
#### **Creating Deco-mail/Decome-Anime**

#### **Creating Deco-mail**

You can change color and font size of message text, insert images such as Flash movies or change background color when composing i-mode mail.







• Select the decoration method from the palette or submenu, set contents of decorating and enter messages.

#### **Creating Decome-Anime**

Decome-Anime is an expressive mail service that uses Decome-Anime Templates and Flash movies with a message or image inserted.





In the Normal menu, [Mail] ▶ [Create new Decome-Anime] ▶ [Edit]

Point the cursor to the template > [OK]

#### Select an edit item

- ◆[∅] > select an item > edit
- ◆[] ▶ edit
- ◆[∅] ▶ [Select image] ▶ point the cursor to the image ▶ [OK]

[Quit]

#### **Using Auto-Decome**

When a message is entered and converted, a pictogram or Deco-mail pictogram is entered by predicting from the text, and font color, font size or background color is changed automatically.

In addition, you can make the expression of conversion candidates masculine or feminine, etc. by changing pattern of conversion.

• Pattern of conversion downloaded from the iMenu site, [SH-MODE] (in Japanese only) is also available.

#### In the compose message screen, [Auto-Decome] after entering message

#### Select a candidate

- To temporarily save the conversion candidates: [Save]
- To return to the saved conversion candidate: [Read]
- To change the pattern of conversion: [Settings] [Pattern conversion] select the pattern of conversion
- To change the place to enter pictograms: [Settings] > [Insert pictogram] > select the setting
- To automatically change the font color/font size/background color: [Settings] > select an item to convert > select the setting
- Pictograms are changed according to the set conversion items each time [ Next ] is selected.

#### Using font change

Enter a message and convert it to change a font.

 Font downloaded from the iMenu site. [SH-MODE] (in Japanese only) is also available.

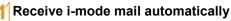
#### In the compose message screen, [Mail Change] > [Font change] after entering message

#### [Yes]

#### Select a candidate

• To select a font type: [FontList] > select a font

#### Checking received i-mode mail



- After reception, the receive complete screen appears and i-mode mail ring tone sounds
  - If no operations are performed in the receive complete screen for approximately 15 seconds, the screen before reception automatically reappears.

#### [Mail] > select a mail

• [- END -] appears at the end of the message. When receiving limit is exceeded, [/] or [//] appears and the exceeding portion is automatically deleted.

#### Displaying a mail in Inbox/Outbox/Unsent box

In the Normal menu, [Mail]



Select a box





#### **Replying to i-mode mail**



- In the received mail details screen. [Submenu] > [Reply/Forward]
- Select the reply method
  - [Reply]
  - View reply
  - [Quick reply] > enter a message
  - [Decome-Anime reply]
  - Vreply Decome-Animel
  - [Reply with quote]
- Compose and send a mail

#### Checking new i-mode mail

Received i-mode mail or Message R/F are stored at the i-mode center while the handset is outside the service area, in the self mode or when the power is turned off. You can check and receive mails from the i-mode center

In the Normal menu, [Mail] | [Check new mail/message1

#### Sorting i-mode mail

Set Sort rules for user folders and sort i-mode mail and SMS automatically.

- Point the cursor to the folder [Submenu] > [Sort rules]
- - Select a number to save
- Set the sort rules
- Repeat step 2 and 3 to set multiple sort rules



#### Setting flag on mail

- Point the cursor to the mail
- [Submenu] > [Protection/Flag] > [Flag ON]/ [Flag OFF]
- Select the setting method

#### Early warning "Area Mail"

Area Mail is a service to receive the earthquake early warning, etc. provided from the Japan Meteorological Agency.

Area Mail is received without i-mode subscription.

#### **Receiving Area Mail**

#### **Receive Area Mail automatically**

- When Area Mail is received, the dedicated alarm tone (beep sound) or Area Mail dedicated ring tone sounds and the called LED flashes
  - After receptions, some Area Mail automatically display a message, while others display [Area mail received].
  - When [Area mail received] appears, the screen before reception automatically reappears in approximately 30 seconds

#### Setting Area Mail

In the Normal menu, [Mail] > [Mail setting] > [Early warning "Area Mail" settina1



[Receive setting] > select the setting

#### Using SMS

You can use SMS entering mobile phone number in the TO field.

#### Sending SMS

- In the Normal menu, [Mail] > [Compose] new SMS]
- Select the TO field > enter a destination
- [Message] > enter a message



#### Checking received SMS

- **Receive SMS automatically**
- After reception, the receive complete screen appears and the SMS ring tone sounds



## Phonebook

You can use the FOMA terminal phonebook and UIM phonebook.

#### Adding phonebook entries

- The following items can be added to one phonebook.
  - FOMA terminal phonebook: Memory number, name, reading, image/moving picture, group, phone number, mail address, birthday, text memo, postal code/postal address, location information, company name, department, title and URL
  - UIM phonebook: Name, reading, group, phone number, mail address
  - · Reading is entered automatically.

## Adding new phone number, mail address, etc.

- In the Normal menu, [TEL function] ► [Phonebook] ► [Add to phonebook]/[UIM operation]
- 2 Set each item ▶ [Save]

## Adding entries from redials/received calls to phonebook

In the Normal menu, [TEL function] ▶ [Dialed/Received calls] ▶ [Received calls]/ [Redial] Point the cursor to the phone number ▶ [Submenu] ▶ [Add] ▶ [Add to phonebook]

#### 3 Add to phonebook

#### Editing phonebook entries

In the phonebook list screen, point the cursor to the name ▶ [Submenu] ▶ [Edit/ Settings] ▶ [Edit]



- Edit the phonebook > [Save]
- Add to phonebook
  - [Overwrite]
  - [New entry]

#### **Deleting phonebook entries**

- In the phonebook list screen, point the cursor to the name > [Submenu] > [Delete]
- 2 Select the deletion method

## i-mode/Full Browser

#### Viewing i-mode site

i-mode enables you to use online services, such as connection to sites and the Internet, and i-mode mail, using display of i-mode compatible FOMA terminals (i-mode terminals).

- i-mode is a paid service that requires a subscription.
- Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-mode.

#### Using i-mode

- Sites and web pages on the Internet are generally protected by copyright law. Selling and redistributing whole or a part of downloaded text, images or other data from these sites and web pages for non-personal use as they are or a part changed without author's permission is prohibited.
- Some models cannot display/play images/moving pictures/ melodies downloaded from sites, files sent/received by mail (images/moving pictures/melodies, etc.), "Screen memos", "Message R/F", etc. if a different UIM is inserted or the handset is turned on without a UIM.
- If files with access restrictions by a UIM are set as the stand-by display, ring tone, etc. and a different UIM is inserted or the handset is turned on without a UIM, settings are reset to default.

#### In the Normal menu, [i-mode/ web] ▶ [iMenuඏ Search]



Select an item



#### Viewing web pages designed for PC

You can view sites that are not supported by i-mode as they appear on PCs with the FOMA terminal using Full Browser.

 Note that making a transmission with large-volume data, such as viewing a web page with many images and downloading data will lead to higher transmission charges.

#### In the Normal menu, [i-mode/web] ▶ [Full Browser Home]

 Some sites with large amounts of information do not appear properly.

#### Switching browsers

#### For i-mode



While viewing sites with i-mode, [Submenu] ▶ [Full Browser] ▶ [Switch to FB]

For Full Browser

- While viewing sites with Full Browser, [Submenu] ▶ [i-mode Browser] ▶ [Switch to i-mode]
- Note that different transmission charges are incurred when switching between i-mode and Full Browser.

#### Viewing and operating sites

#### Selecting a link and moving to a new screen

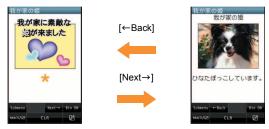
Normally, text string to which links are set appears in blue. A selected link is highlighted.

• Some links may be images. If you select, the image is outlined.

#### While viewing sites, select a link

#### Moving to previous/next page

The FOMA terminal saves sites you viewed. Touch [ $\leftarrow$ Back]/[Next $\rightarrow$ ] to show the memory without transmission. This memory is called the "cache".



- Information such as previously entered character, setting, etc. is not viewed when you view pages saved in the cache.
- The cache is reset by ending i-mode/Full Browser.
- When switching from i-mode to Full Browser, you can return to the page displayed with i-mode by touching [←Back]. Likewise, when switching from Full Browser to i-mode, you can return to the page displayed with Full Browser by touching [←Back].

#### Saving frequently accessed sites

You can save frequently viewed sites and web pages on the Internet as bookmarks for convenient access.

While viewing sites, [Submenu] > [Bookmark] > [Add bookmark]

#### **IOK1**

#### Select a folder

#### Viewing sites from bookmarks

- In the Normal menu, [i-mode/web] [Bookmark]
- Select a bookmark
  - Bookmarks are listed in the order of use.
  - Connection is made with i-mode from i-mode bookmarks. while it is made with Full Browser from Full Browser bookmarks

#### Saving site contents

You can save screens from your favorite sites etc. as screen memos to the FOMA terminal or microSD Card.

#### While viewing sites, [Submenu] > [Screen Memo] > [Save screen memo]



- Select a save destination > [Yes]
- The screen memo is saved
- To save the screen capture only: Select a save destination > [Only displayed]
- Some screens may not be saved as screen memos depending on the site such as the site whose size is zero-byte or assigned not to be saved as screen memos.

#### Displaying screen memos



#### In the Normal menu, [i-mode/web] > [Screen Memo]



#### Select a memo

 If you select a link in the screen memo, connection is made with i-mode for the screen memo of i-mode, while it is made with Full Browser for the screen memo of Full Browser

## i-Channel

※ The i-Channel service is provided in Japanese.

i-Channel is a service that sends news, weather and other information to i-Channel supported terminals. The latest information received automatically is displayed in the stand-by display using a ticker. Additionally, select the i-Channel ticker to display the latest information in a list of channels. i-Channel is a paid service that requires a subscription (i-mode subscription is required).

i-Channel has "ベーシックチャネル (Basic Channel)" provided by DOCOMO and "おこのみチャネル (Okonomi (Optional) Channel)" provided by IP (Information Providers). Packet transmission charges for automatically updating information provided by "Basic channel" are not incurred. Packet transmission charges for automatically updating information provided by "Okonomi (Optional) Channel" that can be customized are incurred. Note that packet transmission charges are incurred for when detailed information are viewed in both "Basic channel" and "Okonomi (Optional) Channel". Packet transmission charges are incurred for automatically updating information and viewing detailed information during international roaming. Refer to "Mobile Phone User's Guide [i-mode] FOMA

version" for details on i-Channel.

#### **Displaying i-Channel**

#### In the Normal menu, [i-mode/ web] ▶ [i-Channel] ▶ [i-Channel list]

#### 2 Select a channel

 Select [Btn ON] to operate with a guide button.

#### Setting i-Channel display

Set whether to display i-Channel ticker in the stand-by display.

- I In the Normal menu, [i-mode/web] ▶ [i-Channel] ▶ [Ticker display set.]
- 2 Set each item 🕨 [Save]

## Map/GPS

- Note that DOCOMO shall not be liable for the pure economic loss if you cannot confirm the positioning (communication) result with the FOMA terminal failure, malfunction or external factors such as power failure (including battery exhaustion).
- You cannot use the FOMA terminal as navigation system for professional use of aircrafts, vehicles, person, etc. Therefore, note that DOCOMO shall not be liable for the loss caused by the navigation system to use location information.
- You cannot use the FOMA terminal as surveying GPS of high accuracy. Therefore, note that DOCOMO shall not be liable for the loss caused by the error of location information.
- GPS is the service in charge of Department of Defense of USA, therefore, GPS radio wave condition may be controlled (accuracy degradation, radio wave abort, etc.) for the US national security reason.
- For the use of location provision or location notification, check the information of an information provider and DOCOMO website. Charges may be incurred for these functions.
- GPS function is not available except for positioning the present location when the FOMA terminal is outside the service area.

#### Using map

You can activate GPS compatible i- $\alpha$ ppli and view the present location or specified location.

#### ∬In the Normal menu, [Map/Overseas] ▶ [Map]

 GPS compatible i-αppli is activated after positioning the present location.

#### **Using navigation**

Activate GPS compatible i- $\alpha$ ppli and use the navigation function.

∬ In the Normal menu, [Map/Overseas] [Navigation]

#### **Checking present location**

You can check your location by positioning the present location. You can use this function for displaying a map from positioning location information or changing the location information to a URL and sending a mail with the URL pasted, etc.

 Transmission charges are not incurred when you check the present location. However, packet transmission charges are incurred when you display a map based on the location information.

#### In the Normal menu, [Map/Overseas] ▶ [Position location/notify] ▶ [Position location]



#### Using AUTO-GPS

% The AUTO-GPS service is provided in Japanese.
According to your present location, you can receive various services, such as providing surrounding

information including weather information, store information, etc. or sight-seeing information.

- If you use AUTO-GPS function, your present location is automatically measured based on your movement and location information and pedometer information are sent to a service provider (Present location is measured approximately once every 5 minutes according to your movement).
- Set AUTO-GPS service information from AUTO-GPS compatible i-αppli of each service to use services supporting AUTO-GPS function. Set DOCOMO service set to [ON] to use AUTO-GPS function for services provided by DOCOMO.
- You can register up to five AUTO-GPS services other than those provided by DOCOMO.
- For the use of AUTO-GPS function, check the information of GPS service provider or DOCOMO website. Charges may be incurred for using these services.
- Packet transmission charges may be incurred for sending location information.
- Communication is performed on a regular basis and power consumption of the FOMA terminal increases depending on your status of use.

#### **Setting AUTO-GPS function**

In the Normal menu, [Map/Overseas] ▶ [Map&GPS setting/history] ▶ [AUTO-GPS]

2 [AUTO-GPS setting] > select the setting

#### Using services provided by DOCOMO

If you use DOCOMO AUTO-GPS service, location information of the FOMA terminal is automatically sent to DOCOMO, and you can receive services related to i-concier or various services provided by DOCOMO.

• Separate subscription and the settings are required to use various services.

In the Normal menu, [Map/Overseas] ▶ [Map&GPS setting/history] ▶ [AUTO-GPS] ▶ [DOCOMO service set]

2 [ON] 🕨 [OK]

## Camera

## Screen layout and operations for shooting screen

#### Shooting screen layout

#### Still picture







Icon display position
 Status indication

×1.0

Moving picture

## Main touch panel operations for shooting screen

#### Still picture

• The following operations are available with control keys.



:00:00

œ

Still Scene

SW View Mode	Show/Hide buttons	L Size	Select size
	Focus setting	i© <sub>∎</sub> Mode	Switch camera-mode
¥ Light	Picture Light	<b>X</b> ↓ Settings	Detailed settings
Ó	Shoot		

- \* Mini preview appears after saving the shot still picture.
- The following touch operations are available.

Adjust brightness	Quickly slide up/down
Adjust zoom	Quickly slide to the left/right

#### **Moving picture**

• The following operations are available with control keys.

_				
	(amera Gallery	Camera gallery*	Concentration of the second se	Change scene/mode setting
	SW View Node	Show/Hide buttons	Size	Select size
	[AF] AF	Focus setting	i© Mode	Switch camera-mode
	→ ↓ Light	Picture Light	Settings	Detailed settings
	¶∎● Rec	Start shooting	 一時停止 Pause	Pause shooting
	● ## Rec	Start/Resume shooting	学业 Stop	Stop shooting

- \* Mini preview appears after saving the shot moving picture.
- You can perform the same touch operations to adjust brightness and zoom as in the still picture.

#### Shooting still/moving pictures

- Although the cameras are made with high-precision technology, some pixels or lines look constantly dark or bright. Further, white lines and other noise may appear in images especially when shooting images in dimly lit surroundings.
- If the camera lens is exposed to direct sunlight for a long time, the internal color filter may discolor, creating a discoloration of shot images.
- Images shot in shooting conditions which include the sun, a light or other strong light source may appear dark and distorted.
- Shooting the sun directly may damage the performance of the CCD.
- Shot still pictures or moving pictures may not be saved when the battery level is low.

#### **Shooting still pictures**

- In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [Camera] ▶ [Still image shooting]
  - When still pictures shooting is activated, shooting LED illuminates.
  - Camera gallery: [gallery]
  - To switch to moving picture shooting: [Movie]
  - Best range zoom: [BestRng]
  - To adjust zoom: W/T
  - Focus lock:

#### 🛛 🛛 (side key)

- Shoot a still picture.
- Since Auto save mode is set to [ON] by default, the still picture is saved automatically and this operation is completed.

#### 3 (side key)

Save a still picture.

#### Shooting moving pictures

#### In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [Camera] ▶ [Movie shooting]

- When moving pictures shooting is activated, shooting LED illuminates.
- Camera gallery: [gallery]
- To switch to still picture shooting: [Still]
- To set scene/mode: [Scene]
- To adjust zoom: W/T
- Focus lock: // (for at least 1 second)

#### 2 🛛 (side key)

- The subject at the center is automatically focused and shot.
- To pause/resume shooting: [Pause]/[Resume]

#### 🛐 🛛 (side key) to end shooting

 Since Auto save mode is set to [ON] by default, the moving picture is saved automatically and this operation is completed.



## Enjoy

#### Viewing still/moving pictures after shooting

#### **Displaying shot still pictures**

In the Normal menu, [Data box] [My picture]

#### [Camera] folder > select a still picture

• To set as stand-by display, etc.: Point the cursor to the still picture | [Submenu] | [Set screen] | select an item

#### Playing shot moving pictures

#### In the Normal menu, [Data box] [i-motion/Movie]

#### [Camera] folder > select a moving picture

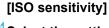
• To set as stand-by display, etc.: Point the cursor to the moving picture [Submenu] [AV settings] > select an item

#### Shooting in various ways

#### **ISO** sensitivity

You can shoot clear pictures with less camera shake in the low-light situation.

In the still picture shooting screen, [Menu] | [Details] | [Shooting menu] |



Select the setting

#### Shoot by scene

You can set the camera to shoot with natural colors and focus based on the surroundings and subject.

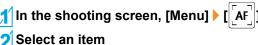
#### In the shooting screen, [Menu] > [Details] > [Shooting menu] > [Shoot by scenel

#### Select the mode

- Following modes can be set.
  - Auto recognition: Mode is automatically switched to any of [Normal]/[People]/[Night scene]/[Night + Portrait] ([Night + People]\*)/[Landscape]/[Food]/[Text] ([Character]\*) according to the subject. It may not be switched properly depending on the shooting condition and the subject.
  - Normal: Shoot in the normal setting.
  - People: Suitable for shooting a picture of people.
  - Night scene: Suitable for shooting a picture of night view.
  - Night + Portrait (Night + People\*): Suitable for shooting a picture of people with night view in the background.
  - Landscape: Suitable for shooting a picture of landscape.
  - Sports: Suitable for shooting a moving subject.
  - Food: Suitable for shooting a picture of food.
  - Text (Character\*): Suitable for shooting a picture of characters printed on a white background.
  - Backlight (Into the sun\*): Suitable for shooting against the sun.
  - \* Appears for moving picture shooting.

#### Focus setting

You can switch the AF (auto focus) mode according to the subject.



#### **Face registration**

You can shoot the face image and register it or shoot a picture with registered face information and focus mark displayed on the still picture shooting screen.

#### In the still picture shooting screen, [Menu] ▶ [Details] ▶ [FaceReg]

#### 2 [Save new]

#### 🛐 Detect the face 🕨 🛛 (side key)

• Guide frame appears in red when a face is detected.

#### Set each item

#### <mark>5</mark> [Complete] ▶ [Yes]

 Registered face information name is displayed as an item in [Album] of Register type and the image can be searched by Data search.

#### Effect camera

You can set effects for still pictures and moving pictures to change the color tone and touch.

- For still picture shooting, shooting with effects is available when image size is "3M: 1536×2048", "FullHD: 1080×1920", "Std-by: 480×854", "VGA: 480×640", "QVGA: 240×320" or "QCIF: 176×144".
- For moving picture shooting, shooting with effects is available in the following settings.
  - Shooting size: "QVGA: 320×240" or "QCIF: 176×144"
  - Switch image/voice: [Image + voice] or [Image only]
  - Common replay mode: [OFF]
  - Shoot by scene: [Normal]
  - Face recognition AF: [OFF]
  - Chase focus: [OFF]

#### In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [Camera] ▶ [Arrange camera] ▶ [Effect camera] ▶ [Effect]

● Alternatively, [Menu] ▶ [Details] ▶ [Shooting menu] ▶ [Effect shot] in the shooting screen.

#### Select a type of effect

- Following types of effects can be set.
  - OFF: Disable an effect.
  - Miniature<sup>\*1</sup>: Express the actual landscape as if it was reproduced as the miniature.
  - Fish-eye: Express an image as seen through a fish-eye lens.
  - Black & white: Express an image contrast in monotone.
  - Sepia: Express an image contrast in sepia color.
  - Sparkling: Light up bright areas.
  - Colored pencil: Draw a colored line.
  - Faded edges<sup>\*1</sup>: Blur around the edge of the screen.
  - Spectrum<sup>\*2</sup>: Express the spectrum of motions.
  - Ripple: Add ripple effect.
  - Kaleidoscope<sup>\*1</sup>, Kaleidoscope(L)<sup>\*2</sup>, Kaleidoscope(S)<sup>\*2</sup>: Add a kaleidoscope effect.
  - \*1 Not available for moving picture shooting.
  - \*2 Available only for moving picture shooting.

#### 3 🛛 (side key)

Shoot.

#### **Multishot camera**

You can shoot pictures continuously and choose the favorite photograph from shot still pictures and save it.

#### In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [Camera] ▶ [Multishot camera]

#### Select the setting

- Following items can be set.
  - OFF<sup>\*</sup>: Continuous shooting is not available.
  - Normal (ON)/ON<sup>\*</sup>: Shoot a still picture automatically and continuously.
  - Recommended photo: Automatically display one picture selected from pictures continuously shot according to the mode set in Selection mode.
  - Bracket: Continuously shoot three still pictures different in color.
  - Best select photo: Continuously shoot just before shutter operation.
  - Strobophoto: Continuously shoot at approximately 0.13-second intervals and create one image by combining shot pictures.
  - Manual: Continuously shoot still pictures by your shutter operation.
  - \* Setting is available only when operating from submenu.

#### ) (side key)

- The first still picture is shot and the following are shot automatically.
- In manual shooting, press () (side key) until the number of continuous shooting images reaches the maximum.
- Since Auto save mode is set to [ON] by default, all the images are automatically saved.
  - In [Recommended photo], Auto save mode cannot be set.

#### Save images

#### For Normal (ON)/ON/Bracket/Best select photo/Manual

• To save an image: Select an image > () (side key)

#### For Recommended photo

- To save displayed images only: () (side key)
- To change the selection mode: [Selection mode] > select a mode

#### For Strobophoto

• To save displayed images only: () (side key)

## 1Seg

#### Using 1Seg

#### 1Seg is a service provided by TV broadcasters (broadcast stations), etc. Transmission charges are not incurred for receiving video, voice and sound. Contact NHK for details on viewing fees of NHK.

- ※ Packet transmission charges are incurred when accessing a site such as a "data broadcasting site", "i-mode site" or others. Also, some sites require information charges to use (i-mode paid sites).
- For details on the "1Seg" service, see the website below.
   The Association for Promotion of Digital Broadcasting
   From a PC http://www.dpa.or.jp/english/
   From i-mode http://www.dpa.or.jp/1seg/k/ (in Japanese only)

#### **Broadcasting wave**

1Seg is one of the broadcasting services, and the receiving signal (broadcast wave) differs from that of FOMA service.

In the following places, the signal status may become weak or the signal may not be received.

- Place that is far from the tower which sends the broadcasting wave
- Mountain areas or behind a building

■ A tunnel, basement or a place in the rear of a building To receive in better conditions, fully pull out the 1Seg antenna. In addition, change the direction of antenna, hold the FOMA terminal apart from or close to the body or move to another place, so that the reception status may become better.

#### About battery level

When recording is started with low battery level or battery level becomes low while recording, the message stating that recording is impossible appears and then the recording ends.

• 1Seg automatically ends if you do not operate for a while.

#### Screen display for first use of 1Seg

A confirmation screen of disclaimer appears for first use of 1Seg after purchase.

Select [OK] according to the displayed contents. The same confirmation screen does not appear after that.

#### Before using 1Seg

- If you use 1Seg for a long time while charging, the service life of the battery pack may become shorter than estimated.
- DOCOMO shall not be liable for any loss or change of the saved data due to malfunctions, repairs or other handling of the FOMA terminal.

When changing the model or asking for repair of your FOMA terminal, you cannot transfer the stored contents (video and still pictures taken from 1Seg, TVlink, data in the broadcasting storage area, etc.) in the terminal.

#### **Setting channels**

### To watch 1Seg, set the channels and select a channel list first.

• Perform Auto setting inside the area of a terrestrial digital TV broadcasting service with the 1Seg antenna fully pulled out.

#### In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [1Seg] ▶ [Channel setting]

 When the confirmation screen appears: [Yes] > proceed to step 3

#### 2 [Submenu] 🕨 [Create]

#### Select the registration method

- [Use preset]
  - Select a prefecture/district where you use 1Seg from the information of the broadcasting stations in each area prepared in advance and set it to a channel list.
- [Auto setting] > [Yes]
  - Broadcasting stations are automatically searched for and set to a channel list.
  - When you do not set the area: [No] > proceed to step 6

#### Select an area

#### Select a prefecture/district

6 [Yes]

#### Watching 1Seg

#### In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [1Seg] ▶ [Activate 1Seg]

- To mute/disable: 🖊
- To activate Multi Assistant: 🖊 (for at least 1 second)
- To exit 1Seg: 💽 🕨 [Yes]
- To record a video of 1Seg program: Touch [()/REC] for a while
  - · To stop recording: [Stop]
- To record 1Seg programs as a still picture: [16]/REC]
- To switch screen display: [ViewSW]
- To activate program guide i-αppli: [EPG]
- To activate simple program guide: Touch [EPG] for a while

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## Screen layout and operations for watching screen

#### 1Seg watching screen layout



Video
 Data broadcasting
 Broadcast station/Program name

Caption
Channel number
Icon display position

## Main touch panel operations for 1Seg watching screen

• The following operations are available with control keys.

<b>I</b>	Record 1Seg programs as a still picture <sup>*1</sup>	stop	Stop recording
ON/OFF 구립 Subtitle	Caption settings ON/ OFF	HERE'SW ViewSW	Switch screen display
CH	Select a station with one-touch operation <sup>*2</sup>	管結表 EPG 読録 HRD3 conple	Activate program guide i-αppli <sup>*3</sup>

- \*1 Touch for a while to start recording a video.
- \*2 Touch for a while to display a channel view.
- \*3 Touch for a while to activate a simple program guide.
- The following operations are available in the video area.

Display volume bar	Touch/Quickly slide up/down
Select a station with UP/DOWN	Quickly slide to the left/right

• The following operations are available in data broadcasting area.

Scroll up/down the screen	Slide up/down
Return to the previous page/ Move to the next page <sup>*</sup>	Slide to the left/right
Zoom in/out a part of the screen	Put a distance between two fingers apart/closer

\* Operation is available while a data broadcasting site is displayed.

## Setting timer for starting or recording 1Seg

- In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [1Seg] ▶ [TV timer list]
- [Submenu] ▶ [Set new timer] ▶ [Manual recording]
- Set each item ▶ [Save] ▶ [Save]
  - When [Manual recording] is selected, the confirmation screen stating that 1Seg may not be recorded correctly depending on signal status appears.

#### **Playing recorded videos**

┃ In the Normal menu, [Data box] ▶ [1Seg]

Video] folder > select a video

## Music

#### Handling the music data

- This manual refers to Chaku-uta full<sup>®</sup> and WMA (Windows Media<sup>®</sup> Audio) files played using MUSIC Player as "music data".
  - "Chaku-uta full" is a registered trademark of the Sony Music Entertainment (Japan) Inc.
- The FOMA terminal can play WMA files or Chaku-uta full<sup>®</sup> which are protected with copyright protection technology.
- When downloading the music data from web pages on the Internet, check use conditions (license, prohibited acts, etc.) carefully before use.
- WMA files, which are protected with copyright protection technology, are played using the information unique to the FOMA terminal. When the information unique to the FOMA terminal is changed due to a failure, repair, upgrade and others, WMA files, which are saved before change, may not be able to be played.
- DOCOMO shall not be liable for handling of CCCD (Copy Controlled CD) or even if you cannot save music data as a WMA file.
- You can use music data saved on the FOMA terminal or the microSD Card for personal use only. Refrain from infringing upon intellectual property rights of a third party's copyrighted material. Do not copy or transfer music data saved on the FOMA terminal or the microSD Card to PC or any other medium.

#### **Music&Video Channel**

% The Music&Video Channel service is provided in Japanese.
Music&Video Channel is a service that approximately up to 1 hour programs are automatically distributed at night if your favorite programs such as music programs are set in advance.

- Music&Video Channel is a paid service that requires a subscription (i-mode and the flat-rate i-mode packet transmission service are also required to be subscribed).
- Some programs may require a separate fee in addition to Music&Video Channel service charge.
- If you insert the UIM to the FOMA terminal, which does not support Music&Video Channel, after subscribing Music&Video Channel, you cannot use Music&Video Channel. However, a service usage fee is incurred unless you cancel Music&Video Channel subscription.
- During international roaming, setting or acquiring programs is not available<sup>\*</sup>. When going abroad, deactivate the distribution of programs in advance. Also, after returning to Japan, activate the distribution again.
  - \* When programs are attempted to be set or acquired during international roaming, packet transmission charges are incurred for connecting to i-mode.
- If you cancel i-mode or Music&Video Channel or delete My Menu registration, the program data in the Delivery program folder may be deleted.
- Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on Music&Video Channel.

# Setting programs

In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [Music&Video Channel] ▶ [Program setting]

Follow instructions on screen and set a program

• [iii] appears in the stand-by display 12 hours before the program distribution.

The acquisition of the program is automatically performed at night. When the acquisition is successfully completed, the stock icon [iii] appears. When the acquisition is failed, [iii] appears. In this case, acquire the program manually.

# **Playing programs**

In the Normal menu, [CAMERA/TV/ MUSIC] Music&Video Channel]

2 Select a program

# Screen layout and operations for MUSIC Player screen

### **MUSIC Player screen layout**



Jacket image
 Artist's name
 Playback status
 Uta-moji Lyrics
 Volume

2 Title
4 Slider
6 Icon display position
8 Play time/Total time

# Main touch panel operations for MUSIC Player screen

• The following operations are available with control keys.

H4	Play previous song (Return to beginning of		Pause/Play <sup>*2</sup>
B S S	the song)*1		Stop
¥ A B	Play next song <sup>*1</sup>	List	Display the screen of music data list to be
Тор	Display folder list screen	LIST	played
918 Save	Save an image and lyrics <sup>*3</sup>	Stotukith Next Picture	Display the next image and lyrics <sup>*3, 4</sup>

- \*1 Touch for a while to fast forward/reverse.
- \*2 Touch for a while to register the song to a quick play list.
- \*3 Appears while the image/lyric is being displayed.
- \*4 Appears when multiple images/lyrics are contained.
- The following touch operations are available.

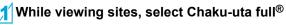
Adjust volume	Quickly slide up/down
Mute/Disable	Touch the volume icon
Play next song/Play previous song (Return to beginning of the song)	Quickly slide to the left/right
Display the next/previous image and lyrics*	Quickly slide to the left/right

- \* When multiple images/lyrics are contained, operation is available while the image/lyric is being displayed.
- When you operate "Play previous song (Return to beginning of the song)", the previous song is played if playback time is less than approximately 2 seconds, and the song returns to the beginning if playback time is approximately 2 seconds or more.

# Downloading Chaku-uta full<sup>®</sup>

### You can save Chaku-uta full<sup>®</sup> downloading from sites.

You can download up to 5 MB Chaku-uta full<sup>®</sup>.



[Save] | select a save destination

# Playing music data

│In the Normal menu, [Data box] ▶ [MUSIC]

# Select music data

- To mute/disable: 🗹
- To exit MUSIC Player: 💿 🕨 [Yes]

The music data previously played resumes from the position where the playback stopped if [Continue] is selected.



# i-αppli/i-Widget

# Activating i-αppli

"i-αppli" is software for the i-mode compatible mobile phone. Download various software from i-mode sites for more convenient use of the FOMA terminal, such as updating stock prices or weather information automatically or enjoying games without connecting to the network, etc.

- For use overseas, packet transmission charges differ from those in Japan.
- Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-αppli.
- To use preset software again after deleting, you can download it from the iMenu site, [SH-MODE] (in Japanese only).



[iMenu] ▶ [メニューリスト] (menu list) ▶ [ケータイ 電話メーカー] (mobile phone manufacturer) ▶ [SH-MODE]

QR code to connect to the site

• Packet transmission charges are incurred when downloading.

## In the Normal menu, [i-αppli] ▶ [Software list]

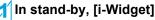


Select software to activate

# **Activating Widget Appli**

i-Widget is a convenient function used to easily access to frequently used contents and tools (Widget Appli) such as calculator/clock, memo, and stock prices. Widget Appli can be added by downloading from sites. If you paste the Widget Appli on the i-Widget screen, you can use it quickly next time.

- If the i-Widget screen is displayed, multiple Widget Appli may communicate.
- Packet transmission charges are incurred when detailed information are viewed.
- Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-Widget.



• i-Widget screen appears.



# Select Widget Appli

# [戻る] (Back)

- Widget Appli is pasted on the i-Widget screen.
- To end Widget Appli: [アプリ終了] (End application) ▶ [YES]

# i-motion/Movie

# Playing i-motion downloaded from sites

#### i-motion refers to image, voice and music data. You can download i-motion to the FOMA terminal from i-motion compatible sites, etc. and play it.

• The following shows i-motion that can be played.

Туре	Description
Standard type	Play after downloading data.
(can be saved*)	Play during downloading data.
Streaming type (cannot be saved)	Play during downloading data.

- \* Some Standard type i-motion cannot be saved.
- You can play saved i-motion using the i-motion player.

## While viewing sites, select i-motion

- To save i-motion: While i-motion is played/paused,
   [Submenu] ▶ [Save] ▶ point the cursor to the folder ▶ [Confirm]
  - When playing i-motion finished: [Save] > point the cursor to the folder > [Confirm]

# Playing movies downloaded from sites

# Play movies provided in portal sites or movie dedicated sites on the Internet with Internet movie player of the FOMA terminal.

- Internet movie player supports the playback of Windows Media Video and Windows Media Audio.
- Making a transmission with large-volume data such as streaming type movie without download limits for Full Browser will lead to higher packet transmission charges.
- The following shows the movie that can be played.

Туре	Distribution system	Description
Streaming	Live distribution	Movie is distributed in real time.
type	On-demand	Movie prepared on server in
	distribution	advance is distributed.

# <mark>1</mark> While viewing sites, select a movie ▶ [Yes]

 To play movies saved to the Import folder of the microSD Card: In the Normal menu, [Tool] [microSD] [Import]
 [i-motion/Movie] select a movie

# **Osaifu-Keitai**

# Osaifu-Keitai/ToruCa

Osaifu-Keitai is a function which has a built-in IC card and allows you to pay, use as coupons or collect stamps, etc. by simply holding the FOMA terminal over the scanning device at stores etc.

Moreover, you can access sites and web pages by holding the FOMA terminal over the scanning device, and get the latest coupon, deposit electronic money and check your usage by using transmission. In addition, Osaifu-Keitai has enough securities to use.

ToruCa is an electronic card that can be retrieved with Osaifu-Keitai. You can use ToruCa conveniently as fliers, restaurant cards, coupons, etc.

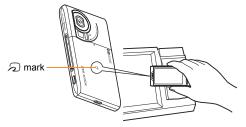
- FOMA terminal malfunctions may cause data (including electronic money, points, etc.) saved in the IC card to be lost or changed (Note that as a rule, you will be asked to delete data when leaving your FOMA terminal for repairs, etc.). For the service such as a reissue, restoration, temporary keeping or transfer of the data except the transfer by iC transfer service, contact your provider of Osaifu-Keitai compatible service. Be sure to use a service including a backup service for important data.
- DOCOMO shall not be liable for any loss or change of data in the IC card or the damage of Osaifu-Keitai service caused by any reason such as malfunctions and upgrading.
- When the FOMA terminal is stolen or lost, immediately contact your provider of Osaifu-Keitai compatible service for handling methods.

### Holding over scanning devices

Hold the  $\bigcirc$  mark of the FOMA terminal over the scanning device to use as electronic money or railway tickets or to retrieve ToruCa.

- Pay attention to the following points when holding the  $\bigcirc$  mark over the scanning device.
  - Do not contact between the FOMA terminal and the scanning device
  - Hold the *¬* mark parallel over the scanning device
  - $\blacksquare$  Hold the  $\backsim$  mark over the center of the scanning device

  - $\blacksquare$  Do not attach a metallic substance on the  $\backsim$  mark side



# i-concier

% The i-concier service is provided in Japanese.

"i-concier" is a service to support your life like a butler or a concierge. It can keep your various data and timely provide contents of memo or schedule, and information tailored to your living area, current location or hobby and interests. i-concier information is provided by Machi-chara (a character in the stand-by display) in the stand-by display.

- i-concier is a paid service that requires a subscription (i-mode subscription is required).
- If non-subscribers of the Data Security Service newly subscribe to i-concier, they are supposed to be subscribers of the Data Security Service.
- In addition to monthly usage fees of i-concier, a separate fee may be incurred depending on contents (information, i-schedule, etc.).
- Packet transmission charges are incurred for receiving information excluding some cases.
- Packet transmission charges are incurred for using detailed information.
- Packet transmission charges are incurred for receiving information and viewing detailed information during international roaming. In addition, for use overseas, packet transmission charges differ from those in Japan.
- To use i-concier overseas, overseas settings for i-concier is required.
- Packet transmission charges are incurred for automatically updating i-schedule, memo, ToruCa or phonebook.
- Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on i-concier.

### When popup message appears

**2** Select the popup message

A popup message appears in the stand-by display and notifies you when information is received or the set time of today's schedule or the set time of schedule alarm arrives.

A popup message appears in the stand-by display



"ひつじのしつじくん<sup>®</sup>" ©NTT DOCOMO

## **Displaying i-concier screen**



In the Normal menu, [i-concier]

Select the function icon

# **Convenient Tools**

# Using schedules

• Be sure to set the date and subject.

#### For Normal

In the Normal menu, [Tool] ▶ [Schedule] ▶ [Submenu] ▶ [New entry]

2 Set each item > [Save]

3	Holiday
	The library is closed ever y Monday.
	$(\Lambda)(\mathbf{E})(\mathbf{R})$
	ToDo
0	1001
0	0007 Ezer
0	1001
0	0007 Ezer
-	0007 8277 18827

# Using alarm

Select a save destination

#### 3 Set each item > [Set] • To switch items: Select the tab

# Using bar code reader

In the Normal menu, [CAMERA/TV/ MUSIC] ▶ [Camera] ▶ [Scanning camera] ▶ [Bar code reader]



# Display bar code to be scanned in the center of the screen ▶ 0 (side key)

 Position the camera 10 cm or more from the bar code (JAN/ QR codes). Keep aligned and do not move the FOMA terminal or code while scanning.

# **3** Use the scanned results

# **Bluetooth function**

# You can connect the FOMA terminal to Bluetooth devices wirelessly.

- Wireless communications with all the Bluetooth devices are not completely guaranteed.
- Electromagnetic signals from the Bluetooth device may affect the operation of electronic medical equipment. As some cases may result in accident, turn off the FOMA terminal and other Bluetooth devices in the following place.
  - On trains On airplanes
- In hospitals
- Nearby automatic doors or fire alarms
- In places such as gas stations where flammable gas is generated

# Registering Bluetooth devices on FOMA terminal

- To register a Bluetooth device, the Bluetooth passkey must be entered. Before starting the registration, enter the same user-specified 4- to 16-digit number on the FOMA terminal and the other party's Bluetooth device.
- Switch the other party's Bluetooth device to the registration stand-by status in advance.

## In the Normal menu, [Tool] ▶ [Bluetooth] ▶ [List/cnnct/discnct]

• The device list screen appears when registered device exists. Select [Search] and proceed to step 3.

# 2 [Yes]

## Point the cursor to the Bluetooth device to register ▶ [Submenu] ▶ [Register Devices]

# 4 Enter the Bluetooth passkey

• Entering the Bluetooth passkey may not be required depending on the other party's Bluetooth device.

## **Connecting with Bluetooth devices**

- In the Normal menu, [Tool] ▶ [Bluetooth] ▶ [List/cnnct/discnct]
- 2 Select a Bluetooth device to connect to

# Setting registration stand-by/connection stand-by

Set to receive a registration request/connection request from other Bluetooth devices in the stand-by display.

## In the Normal menu, [Tool] ▶ [Bluetooth] ▶ [Accept registered]

• Turn off the Bluetooth power to disable the stand-by status.

# Turning on/off Bluetooth power on the FOMA terminal

- If the Bluetooth power is turned off, all services being connected or in connection stand-by stop. If the Bluetooth power is turned on, services previously connected or in connection stand-by or some services which have been connected are set to connection stand-by.
- In the Normal menu, [Tool] ▶ [Bluetooth] ▶ [Bluetooth Power ON]/[Bluetooth Power OFF] ▶ [Yes]

# **Data Management**

# Using microSD Card

You can save data, such as the phonebook, mail or bookmark in the FOMA terminal to microSD Card or import data in microSD Card to the FOMA terminal. microSD Card is sold separately.

# You can purchase microSD Card and its adapter at home electronics shops.

- SH-05C is compatible with commercially available microSD Card of up to 2 GB and microSDHC Card of up to 16 GB (as of December 2010). Refer to the following sites (in Japanese only) for the latest information such as the manufacturer, available capacity, etc. of the microSD Card. In addition, for microSD Cards that are not provided in the sites, some of them may not work.
  - From i-mode [SH-MODE] (as of December 2010)

[iMenu] ▶ [メニューリスト] (menu list) ▶ [ケータイ電話メーカー] (mobile phone manufacturer) ▶ [SH-MODE]

From a PC

http://k-tai.sharp.co.jp/support/d/sh-05c/

Note that the provided information is the information checked for operation. DOCOMO shall not be liable for all operations.

- Do not insert or remove a microSD Card while the FOMA terminal is on. Data may be damaged and operation may not work properly.
- Do not remove the microSD Card or turn off the FOMA terminal immediately after inserting the microSD Card in the FOMA terminal or while editing data on a microSD Card. Data may be damaged and operation may not work properly.
- Format unformatted microSD Cards on the FOMA terminal before use. microSD Cards formatted on PCs or other devices may not be used properly by the FOMA terminal.

- When a microSD Card formatted on another FOMA terminal or PC is used, the displayed folder name may differ.
- Since some types of microSD Cards do not support copyright protection functions, they may not be formatted. There is no guarantee for the save and copy of data of the microSD Card because it is unsupported by FOMA terminal.
- When a microSD Card used on another FOMA terminal or PC is inserted, it may not be used.
- Back up the data saved in a microSD Card and store in another place. DOCOMO shall not be liable for any loss or change of the saved data.

### Inserting/Removing microSD Card

## Slowly insert the microSD Card with the metal terminal side turned down

- Push slowly with a finger until a click is heard.
- Gently push the microSD Card in before removing.



- Note that excessive force may damage the FOMA terminal or microSD Card.
- Keep your face away from microSD Card when inserting or removing card. When taking your fingers off abruptly, card may pop out.

## Formatting microSD Card

- Note that all the data in the microSD Card is deleted when formatted.
- In the Normal menu, [Tool] > [microSD] > [Format]
  - Enter the terminal security code > [Yes]

## Copying data to microSD Card/FOMA terminal

#### Example: i-motion

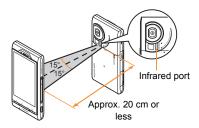
- In the Normal menu, [Data box]
  - [i-motion/Movie] ( ▶ [→microSD])\*
  - When the save destination is microSD
- 2 Point the cursor to i-motion [Submenu] > [Move/Copy] > [Copy to microSD]/[Copy to the phone]
- **3** Select the copying method

## Backing up data to microSD Card

You can collectively backup data, such as phonebook or mail, and each setting information.

- In the Normal menu, [Tool] > [microSD] > [Backup/Restore]
- [Backup to microSD] > enter the terminal security code > [Yes]
- When backing up the phonebook, a confirmation screen asking whether to save the profile appears.

# Sending and receiving data via Ir communication



 Face the infrared ports of the receiver's and sender's FOMA terminal each other and set the distance between them to approximately 20 cm or less.

## Sending data

#### Example: Phonebook



- In the phonebook list screen, point the cursor to the name ▶ [Submenu] ▶ [Send data] ▶ [Send Ir data]
- 2 Select the sending method
  - [Send]
  - [Send all] > enter the terminal security code > enter the authentication password

# 3 [Yes]

## **Receiving data**

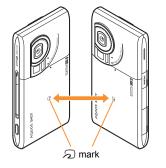
In the Normal menu, [Tool] ▶ [Infrared/iC communications] ▶ [Receive infrared data]

# 2 Select the receiving method

- ◆[Receive] > [Yes]
- ◆ [Receive all] ▶ enter the terminal security code ▶ enter the same authentication password as the sender's ▶ [Yes]



# Sending and receiving data via iC communication



• Use while placing the 🗇 mark of receiver's FOMA terminal on that of sender's FOMA terminal.

## Sending data

#### Example: Phonebook



In the phonebook list screen, point the cursor to the name ▶ [Submenu] ▶ [Send data] ▶ [iC transmission]

**2**S

# Select the sending method

- [Send]
- [Send all] > enter the terminal security code > enter the authentication password

# 3 [Yes]

 Place the 
 mark on that of the other

 party's FOMA terminal

# Receiving data

In stand-by, place the  *mark on that of the other party*'s FOMA terminal

**2** [Yes]

# **Connecting to PC**

By connecting the FOMA terminal and your PC, exchange WMA files and images in the microSD Card. In addition, connect to the Internet and perform data communication.

- FOMA USB Cable with Charge Function 02 (sold separately) or FOMA USB Cable (sold separately) is required.
- For a data communication, installation of the FOMA communication configuration file from the accompanying CD-ROM is required. Refer to "Manual for PC Connection" in the accompanying CD-ROM for details.

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# Support

# Troubleshooting

- First, check whether the software update is required. If it is required, update the software (27 P. 86).
- If there is no improvement in problems even after checking the following items, feel free to contact the number listed in "Repairs" (in Japanese only) on the back of this manual or a repair center that DOCOMO specifies.

### Power

The FOMA terminal is not turned on	
Is the battery pack attached properly?	P. 18
<ul> <li>Make sure the battery has not run out.</li> </ul>	-

## **Charging**

# Cannot charge the battery (Charging LED does not illuminate or it flashes)

Is the battery pack attached properly?	P. 18
<ul> <li>Is the adapter power plug inserted into the outlet or cigarette lighter socket properly?</li> </ul>	P. 19
• Are the adapter and the FOMA terminal set properly?	P. 19
<ul> <li>When using the AC adapter (sold separately), is the connector of the AC adapter properly connected to the FOMA terminal?</li> </ul>	P. 19
<ul> <li>If calling, transmitting or another function is performed for a long time with charging, the FOMA terminal may become warm and charging LED may flash. Charge again after the terminal temperature lowers.</li> </ul>	_

### **Terminal operation**

#### Becomes hot while operating/charging Temperature of the FOMA terminal, battery pack or adapter may rise while operating or charging or when performing i-appli, making a videophone call or watching 1Seg for a long time, etc. with charging. There is no safety hazard. Battery usage time is short · Make sure the battery pack is not left for a long time outside the service area Outside the service area, since electric waves are searched to make transmission available, more electric power than usual is used The usage time for the battery pack depends on the usage environment and deterioration level. Battery pack is a consumable product. Service time per charge is gradually reduced every time the battery is charged. Purchase a specified new battery pack if the usage time becomes extremely shorter than when the battery was purchased even after fully charged. Power turns off/The FOMA terminal restarts Unclean terminals for the battery pack may result in poor connections and loss of power. Wipe with a dry cotton swab. Make sure the IC portion of the UIM is not dirty. P. 18 Not activated by touching or pressing keys Make sure All lock is not set. P. 40 Make sure the FOMA terminal is not turned off. P. 20 UIM does not recognize Is a UIM inserted facing right direction? P. 18 Make sure the UIM (blue) is not inserted. P. 18

# Others

#### Clock is wrong

 Clock may become wrong if the power is turned on for a long time.

Make sure Auto time adjust is set to [ON] and turn the power on again in a location with good signal conditions.

### **Calling**

# Calls cannot be made with the dial • Make sure All lock is not set. P. 40 • Make sure Keypad dial lock is not set. P. 40 • Make sure self mode is not set. P. 40

#### Connection cannot be made ([影] does not disappear even after moving to another place or calls cannot be made/received even though signal status is not bad)

the age of gran of a tao io the a a a	
<ul> <li>Turn the power on again or attach the battery pack or UIM</li> </ul>	P. 18
again.	P. 20
• Depending on the signal type, even though status is "inside the service area" or "[[wi]] (indicating signal status) appears", making/receiving a call may not be available. Move to another place and call again.	P. 21
<ul> <li>Make sure Accept call from specified caller/Reject call from specified caller is not set.</li> </ul>	-
<ul> <li>In crowded place, heavy telephone/mail traffic may be caused and make it difficult to get a connection. In such case, [Please wait] appears and a busy signal is played. Move to another place or call again later.</li> </ul>	_

### Osaifu-Keitai

#### Cannot use Osaifu-Keitai

<ul> <li>If the battery pack is removed or Omakase Lock is activated, IC card functions are not available regardless of the IC card lock setting.</li> </ul>	P. 40
<ul> <li>Make sure IC card lock is not set.</li> </ul>	P. 40
<ul> <li>Is the  mark of the FOMA terminal held over the scanning device?</li> </ul>	P. 75

# Warranty and After-Sales Service

### Warranty

 Make sure that the warranty card is included with your FOMA terminal at the time of purchase. Check that the name of the retailer, the date of purchase, and the necessary details have been filled in on the warranty card. Be sure to keep it in a safe place.

Contact the retailer if any necessary details on the warranty card are not completed.

The warranty period without charge is 1 year from the date of purchase.

 For the purpose of improvement, the specifications for this product and its accessories are subject to complete or partial change without prior notice.

## **After-Sales Services**

## If you have problems with your FOMA terminal

Refer to "Troubleshooting" in this manual or "Guide" (in Japanese only) contained in the FOMA terminal before requesting repairs.

Contact the number listed in "Repairs" (in Japanese only) on the back of this manual if problems persist.

### If your FOMA terminal needs repairs after contacting DOCOMO

Bring your FOMA terminal to a repair counter that DOCOMO specifies. However, the repair shop is only open during business hours. Note that it may take several days to repair depending on the damaged condition.

#### During the warranty period

- The FOMA terminal will be repaired without charge in accordance with the terms of the warranty.
- When bringing the FOMA terminal in for repairs, be sure to bring the warranty card. Even during the warranty period, a fee will be charged for repairs of malfunctions or damage caused by your improper handling (damage of LCD and connector) or when no warranty certificate is presented.
- Repairs for damages caused by the use of devices and accessories other than those specified by DOCOMO will also incur a fee, even during the warranty period.

#### Repairs may not be possible in the following circumstances.

- When a repair counter considered water exposure (Example: When the moisture detection seal has reacted)
- As a result of inspection, when damage from water exposure, condensation, sweat or other liquids are found or when the internal circuit board is damaged or deformed (Repairs may not be possible when external connector terminal (earphone/microphone terminal), LCD, etc. is damaged or when a housing is cracked)
- ※ Even when repairs are possible, repair charges will be incurred because the warranty does not cover such damage.

#### After the warranty period has expired

Charged repairs will be carried out upon request.

#### **Replacement parts**

Replacement parts (required to maintain the functionality of the FOMA terminal) will be kept in stock basically for 6 years following production. However, note that there may be a case when repair is not possible for the shortage of replacement parts depending on the faulty part.

### **IMPORTANT!**

- Never attempt to modify the FOMA terminal or its accessories.
  - Repairs may be refused depending on the extent of the modification. The following cases may be considered as a modification.
    - Stickers are applied to the LCD or keys
    - · Decorations are made to the FOMA terminal with adhesive agent
    - Exterior parts are replaced with those which are not standard DOCOMO product
  - Repairs for any malfunction or damage caused by such modifications will incur fees, even during the warranty period.
- Do not peel off the model nameplate attached to the FOMA terminal.
  - If the nameplate seal does not function as a certification, repairs may be refused because conformity to the standards cannot be determined.

技術基準適合認証品

- Information stored in your FOMA terminal, such as the settings of various functions and the total call duration, may be cleared or reset if your FOMA terminal is damaged, repaired or mishandled.
  - If this occurs, please re-enter the information or re-specify the settings.
- When the FOMA terminal is repaired, Bluetooth address may be changed regardless of the faulty part.
- The following sections of the FOMA terminal contain parts that generate magnetic waves. Keep ATM cards and other objects likely to be affected by magnetic waves away from the FOMA terminal. Cards may become unusable.
  - Sections: speaker, mouthpiece
- If the inside of the FOMA terminal gets wet or becomes moist, immediately turn off the power and remove the battery pack. Then, visit a repair counter. The FOMA terminal may not be repaired depending on its condition.

# i-mode fault diagnosis site

The i-mode fault diagnosis site is only available in Japanese. You can check whether the FOMA terminal can normally send and receive mails, download images or melodies or perform other operations. When a malfunction is found after checking, contact the number listed in "Repairs" (in Japanese only) on the back of this manual.

#### Accessing the "i-mode fault diagnosis site"

i-mode site: [iMenu] ▶ [お知らせ] (notice) ▶ [サポート情報] (support information) ▶ [お問い合わせ] (inquiries) ▶ [故障・ 電波状況お問い合わせ先] (inquiries about fault/signal status) ▶ [ i モード故障診断] (i-mode fault diagnosis) ● Access from abroad is charged.



QR code to connect to the site

# Updating software

#### This function checks if the FOMA terminal is needed to be updated by connecting to network, and if necessary, updates software by downloading a part of software using packet transmission.

- If updating software is necessary, check the DOCOMO website or "お客様サポート" (user support) (in Japanese only) on iMenu for updates. When updating, select "Auto-update", "Now update" or "Reserve".
- You can update software even if the FOMA terminal contains phonebook, camera image, downloaded data, etc. However, DOCOMO cannot protect some data that could be lost due to malfunction, damage, water exposure and so on. It is recommended that important data be backed up before updating. Note that some data, such as downloaded data, cannot be backed up.

## Using software update

- Do not remove the battery pack while the software is updating. Failure to update software may occur.
- Recharge battery before updating software.
- Updating (downloading and rewriting) software may take time.
- Making/Receiving calls, transmission functions and other functions cannot be used while software is being updated (Receiving voice calls is possible during download).
- It is recommended to update software at a location with a strong signal (three bars for the antenna icon) and you are not moving. If signal status becomes weak or download is interrupted when downloading software, update software again in a location with good signal conditions.

- When updating software, the information unique to the FOMA terminal (model, serial number, etc.) is automatically sent to the server (DOCOMO software update server). Sent information is only used for software update.
- If software update fails, [Rewrite failed] appears and all operations are not available. In this case, bring the FOMA terminal to a repair center that DOCOMO specifies.

## Starting software update from icon

When the software is automatically downloaded, [[w] appears in the stand-by display.

## ∬ [ጬ] appears in the stand-by display select [ጬ]

# 2 Select the rewriting method

- To confirm settings: [OK]
- To change settings: [Change]
- To start rewriting: [Now rewrite]

## Starting software update from menu

- In the Normal menu, [Setting] ▶ [Other setting] ▶ [Software update]
- Enter the terminal security code [Update]
- 3 Select the update method

# Checking harmful data

#### Delete or stop activating any data or applications that could cause operational malfunctions. These types of data include data or programs that are downloaded to the FOMA terminal.

- The scan function helps to protect the handset from damage caused by data such as data received from web pages or mails. If the pattern definition corresponding to a particular harmful file is not downloaded or saved, the scan function will not be able to protect the FOMA terminal.
- Pattern definitions vary depending on the phone model. DOCOMO may discontinue offering pattern definitions for a particular model 3 years after the release date.

### Updating pattern definitions

• First, update pattern definitions to bring them up-to-date.

- In the Normal menu, [Setting] ▶ [Lock/ Security] ▶ [Scanning function] ▶ [Update]
- 2 [Yes] [Yes]
- 3 [OK] when updating is completed

### **Displaying scanned results**

### Displaying detected errors

- If you select [Detail] in the warning screen, error names appear. When no error name exists for the contents of the pattern data, [Detail] does not appear.
- Up to five error names appear. Error names after the sixth are skipped and the total number of errors appear when six or more are detected. If same error is detected more than once, it is only listed once.

## **Displaying scanned results**

Level 0	Level 1	Level 2
Problem detected. Operation may not ru n properly	Problem detected. Operation may not ru n properly. Cancel operation?	Problem detected. Operation may not ru n properly. Canceling operation
[OK]: To display/ activate/call	[No]: To display/ activate/call [Yes]: To cancel operation	[OK]: To end
Level 3	Level 4	
Problem detected. Operation may not ru n properly. Delete data?	Problem detected. Operation may not ru n properly. Deleting data	
[Yes]: To delete the data [No]: To end without deleting	[OK]: To delete the data	

roblem factors

ehaviorLv2 ehaviorLv1

**BehaviorLv0** 

# Introduction of options and related devices

Combine the FOMA terminal with various optional accessories (sold separately) for expanded personal and business use.

Some products may not be available in certain areas. Contact a docomo Shop or retailer for details.

# Refer to the user's guide of each product for more details.

- FOMA AC Adapter 01\*1/02\*1
- Battery Pack SH26
- Back Cover SH48
- Earphone Terminal P001\*2
- Flat-plug Stereo Earphone Set P01\*3
- Flat-plug Earphone/Microphone with Switch P01\*3/P02\*3
- Stereo Earphone Set P001<sup>\*2</sup>
- Earphone/Microphone with Switch P001\*2/P002\*2
- Earphone/Microphone 01
- Stereo Earphone/Microphone 01
- Earphone Plug Adapter P001<sup>\*3</sup>
- Earphone Plug Adapter for External connector terminal 01
- Earphone Plug Adapter 01
- FOMA USB Cable<sup>\*4</sup>
- Wireless Earphone Set 02
- FOMA AC Adapter 01 for Global use\*1
- FOMA DC Adapter 01/02
- FOMA Indoor Booster Antenna<sup>\*5</sup>
- In-Car Hands-Free Kit 01\*6
- FOMA In-Car Hands-Free Cable 01
- In-Car Holder 01
- FOMA Dry Battery Adapter 01
- Carry Case L 01

- Carry Case 02
- Bone conduction microphone/receiver 01<sup>\*3</sup>/02
- FOMA USB Cable with Charge Function 02<sup>\*4</sup>
- FOMA Portable Charging Adapter 01/02
- FOMA Indoor Booster Antenna (Stand Type)<sup>\*5</sup>
- \*1 Refer to P. 19 for details on charging with an AC adapter.
- \*2 Earphone Plug Adapter for External connector terminal 01 and Earphone Plug Adapter are required.
- \*3 Earphone Plug Adapter for External connector terminal 01 is required.
- \*4 The use of USB HUB may prevent working correctly.
- \*5 For use only in Japan.
- \*6 FOMA In-Car Hands-Free Cable 01 is required to charge SH-05C.

Others

# Appendix

# Menu list

- When settings are reset by Reset (127 P. 41), functions return to default settings (marked with ).
  - Some items may include functions which do not return to default settings.

### Normal menu/Basic menu list

 Depending on the Kisekae tool set in the Normal menu, the function names may differ from those described.

### Mail menu

	Mail	
Inbox		
Outbox		
Unsent messages		
Compose message		
Create new Decome-Anime		
Decome-Template	Deco-mail	
	Decome-Anime	
Compose new SMS		
Check new mail/message		
Check new SMS		
Receive option		
Decome-Item	Pattern conversion	
	Font	

Mail		
Mail setting	Receive setting	
	Display	
	Edit signature	
	Common phrases/Store word	
	Check new mail/message setting	
	Reply setting	
	Blog/SNS settings	
	Mail group	
	Address/Spam setting	
	Auto save setting when editing	
	SMS settings	
	Early warning "Area Mail" setting	
Mail logs	Sent msg. log	
	Received msg. log	

## i-mode/web menu

i-mode/web	
iMenu 🤅 Search	
Bookmark	
Screen Memo	
Browsing history	
Enter URL	Enter URL
	URL enter history
i-Channel	i-Channel list
	Ticker display set.
	Reset i-Channel
RSS reader	
i-mode/web setting	i-mode Browser Set.
	FB settings
	Common Settings
	Check i-mode setting
	Reset i-mode setting
Full Browser Home	

## <u>i-αppli menu</u>

	i-αppli
Software list	
i-αppli call logs	
i-αppli run information	Start failure hist
	Abnormal exit hist
	Security error hist
	Trace information
i-αppli setting	Sound effect volume
	Software info disp.
	Auto-start
	i-Widget settings
	AUTO-GPS preferred setting
	Sort software
	Display light time
	Vibration mode
	i-αppli power saver
	i-αppli call DL set
	About i-αppli

## CAMERA/TV/MUSIC menu

CAMERA/TV/MUSIC	
Camera	Still image shooting
	Movie shooting
	Arrange camera
	Multishot camera
	Scanning camera
	Make deco camera
	Golf swing video cam
	Still image album
	Movie play
1Seg	Activate 1Seg
	Program guide
	1Seg image/video
	TV timer list
	Recording result
	TVlink
	Channel setting
	User setting
MUSIC Player	
Music&Video Channel	

## Data box menu

Data box
My picture
MUSIC
Music&Video Channel
i-motion/Movie
Melody
My document
Kisekae Tool
Machi-chara
Chara-den
1Seg
Other
Data search
Album

# Tool menu

	Tool	
Bar code reader		
Calculator		
Alarm		
Infrared/iC communications	Receive infrared data	
	Send all infrared data	
	All iC transmission	
	Data exchange settings	
Schedule		
Memo		
Countdown timer		
Voice recorder		
HDMI	Start HDMI connection	
	Output resolution	
	Image sharpening set	
	Auto guide display	
	AQUOS Familink	
Bluetooth	Accept registered	
	Receive data	
	Send all via BT	
	List/cnnct/discnct	
	Register new dev	
	Bluetooth Power ON/Bluetooth Power OFF	
	Del send res data	
	Bluetooth setting	
Quick launcher	Search functions	
	Search phonebook	

	Tool	
Wellness	Check no. of steps	
	Register profile	
	Settings	
	Workout	
	Help	
Handwriting		
Manga&BookReader		
Document Viewer		
Data Security Service	Data check/Download	
	Update phonebooks etc.	
	Update images	
	Update setting information	
	Detailed setting/Exchanging history	
microSD	Data box	
	PIM	
	ToruCa	
	Used by i-appli	
	LCS client	
	Decome-Anime	
	Manga&BookReader	
	Backup/Restore	
	Other	
	Indiv backup/restore	
	Import	
Guide		
Quick search		
Common phrases/Store word	Common phrases	
	Store word	
Download dictionary		
Contact DOCOMO	ドコモ総合案内・受付	
	ドコモ故障問合せ	

Others

## TEL function menu

TEL function	
Phonebook	Search phonebook
	Add to phonebook
	UIM operation
	Add group
Record message/Voice memo	Record message list
	Voice memo list
	Record voice memo
	Record message
Dialed/Received calls	Received calls
	Redial
Dial/Receive call setting	Nuisance call blocking service
	Caller ID request
	Caller ID notification
	Arrival call act
	Dial call detailed setting
	Receive call detailed setting
	In-call detailed setting
	Headset function setting
	Call rejection setting
	Missed call notification
	Sound & Image
	Reject/Accept call
Videophone setting	V.phone dialing img.
	Videophone receiving
	Data session arv. Act
	Operation
	Image setting
	Notify switchable mode

	TEL function
Call duration/charge	Call charge
	Call duration
	Reset call cost
	Call cost limit
	Hide call cost icon
Chaku-moji	Create message
	Message display settings
2in1	2in1 mode switching
	Ph.book 2in1 setting
	Stand-by display setting
	Call/receive settings
	2in1 function OFF
	Receive avoidance
Melody Call	L
Voice mail service	Activate
	Ring time
	Deactivate
	Check setting
	Play messages
	Setting
	Check messages
	Tone/Vibration message notification
	Delete icon
	Setting for videophone
Other network service	Call forwarding
	Call waiting
	English guidance
	Remote access
	Multi Number
	Dual network
	Additional service
	OFFICEED

## Setting menu

	Setting
Screen/Display	Kisekae Tool setting
	Stand-by display setting
	Color theme setting
	Display img quality
	VeilView
	Each display setting
	Machi-chara setting
	Menu preference
	Auto SW vert/horiz
Sound/Vibration/Manner	Ring tone
	Other sounds
	Adjust volume
	Speaker booster set
	Vibration mode
	Silent mode
	Motion silent
	BGM play
	Machi-chara chat setting
Backlight/Illumination	Display light
	Light alert
Text display/input	Font size
	Font style
	Text input
	バイリンガル
Time	Date and time setting
	Clock format
	Auto power ON/OFF

	Setting
Lock/Security	Lock settings
	Panel unlock set
	Secret mode
	Privacy setting
	Caller/Sender info
	Keypad dial lock
	Call rejection setting
	Change security code
	Writing authentic
	UIM setting
	Scanning function
Battery	eco mode
-	Auto eco mode
	Battery level
	Battery icon setting
	Icon% temp display
External connection	USB mode
	Bluetooth
	Femtocell
	Data exchange settings
Other setting	Self mode
	Initial setting
	Clean Up
	Delete all data
	Reset
	Software update
	Check remote setting
	Memory status
Kisekae/Themes	Style theme
	Timed theme

Others

## Map/Overseas menu

Map/Overseas		
Мар		
Navigation		
imadoco search	imadoco kantan search	
	imadoco search	
i-area		
GPS αppli list		
Position location/notify	Position location	
	Notify location	
Map&GPS setting/history	Loc. history	
	Map setting	
	Quick settings Act	
	Request permit/deny	
	AUTO-GPS	
	Positioning mode setting	
	LCS clients list	
	Service setting	
	Service settings	
	Light color/Alert	
Overseas network search	Network search setting	
	PLMN setting	
	Display operator name setting	
	Display area status	
	Re-search icon display setting	

Map/Overseas	
Overseas setting	Inquiries(overseas)
	Barring incoming call when roaming
	Missed call notification for roaming
	Roaming guidance
	International dialing assist
	i-mode service setting
	Mail/Message usage setting
	Network service
Overseas user's guide	

## i-concier menu

i-concier
i-concier

## Profile menu

Profile

Profile

### Osaifu-Keitai menu

Osaifu-Keitai	
IC card content	
DCMX	
ToruCa	
IC card lock setting	IC card lock
	Timed lock
	Programed activation
	IC lock(power-off)
Setting	ToruCa from IC card
	ToruCa from 1Seg
	ToruCa duple check
	ToruCa auto-read
	ToruCa auto display
	ToruCa sound effect
Check IC owner	
Change IC owner	
Search by i-mode	

# Other functions

Quick Settings	
Shortcut menu	
Earpiece volume	
Videophone	
Manner mode	
Omakase Lock	
Auto-Decome	
Text input	Set input method

# Main specifications

### Package

Product name		SH-05C	
Size		Approx. 119 (H) × Approx. 59 (W) × Approx. 15.7 (D) mm (Approx. 16.6 mm at thickest point)	
Weight		Approx. 139 g (with battery pack attached)	
Continuous talk time <sup>*1, 2</sup>	FOMA/3G	Voice call: Approx. 210 min Videophone: Approx. 140 min (with substitute image)	
Continuous	50111/00	When mobile: Approx. 390 hr*4	
stand-by time <sup>*2, 3</sup>	FOMA/3G	At rest: Approx. 580 hr*5	
1Seg watching	g time	Approx. 360 min	
Charge time		AC adapter: Approx. 140 min	
Charge time		DC adapter: Approx. 140 min	
	Туре	New Mobile ASV LCD 16,777,216 colors	
Display	Size	Approx. 3.7 inches	
	Pixels	409,920 pixels (480 × 854 dots)	
Image pickup	Туре	CCD <sup>*6</sup>	
device	Size	1/2.3 inches	
	Effective pixels	Approx. 14.1 million pixels	
Camera	Recorded pixels (Max.)	Approx. 14.0 million pixels	
	Zoom	Up to approx. 75.6×	
Picture light source LED characteristics		<ul> <li>a) Continuous illumination</li> <li>b) Wavelength</li> <li>White: 400-700 nm</li> <li>c) Maximum output</li> <li>White: 1.2 mW (inside FOMA terminal 4.3 mW)</li> </ul>	

	Number of still	Approx. 1,500 shots <sup>*7, 8</sup>
Recording File f	pictures recorded	Approx. 60,000 shots (when saved in 2 GB microSD Card)*7
	Continuous shooting of still pictures	14M: 3 shots/10M: 3 shots/5M: 3 shots/3M: 3 shots/FullHD: 6 shots/ Std-by: 8 shots/VGA: 10 shots/ QVGA: 40 shots/QCIF: 40 shots
	File format for still picture	JPEG
	Recording time	Approx. 26 min each <sup>*9</sup>
for moving picture		Approx. 60 min each (when saved in 2 GB microSD Card) <sup>*9</sup>
File format for moving picture		MP4
		i-motion: Approx. 510 min <sup>*10</sup>
Music Continuous playback playback time		Chaku-uta full <sup>®</sup> (Compatible with background playback): Approx. 4,620 min* <sup>10</sup>
	WMA file (Compatible with background playback): Approx. 3,680 min*11	
	Music&Video Channel (voice) (Compatible with background playback): Approx. 510 min	
		Music&Video Channel (moving picture): Approx. 510 min
Memory capacity	Chaku-uta <sup>®</sup> Chaku-uta full <sup>®</sup>	Approx. 173 MB <sup>*12</sup>
		1

• "Chaku-uta" is a registered trademark of the Sony Music Entertainment (Japan) Inc.

- \*1 Continuous talk time is an estimate of the time when talking in a location where the signal is normal.
- \*2 The above mentioned talk time and stand-by time are shortened with the use of data communications, Multiaccess, and the camera.
- \*3 Continuous stand-by time is an estimate of the time when FOMA terminal is in a status where signals are received. Talk/stand-by time may be reduced by about half depending on conditions including battery level status, functions used, temperature and other environmental conditions, and signal strength (no signal or weak signal). Using i-mode reduces talk (transmission)/stand-by time. In addition, watching 1Seg, composing i-mode mail, using Bluetooth function and activating downloaded i-αppli or the i-αppli stand-by will also shorten talk (transmission)/stand-by time even if calls or i-mode transmission are not made.
- \*4 Continuous stand-by time is the average usage time when the FOMA terminal is in At rest, When mobile or Outside the service area status.
- \*5 Continuous stand-by time is the average usage time when you are not moving and in a status where signals are received.
- \*6 A CCD (Charge Coupled Device) is an image device equivalent to the film of silver salt cameras.
- \*7 Image size: QVGA (240 × 320 dots)/Image quality: NORMAL/File size: 25 KB
- \*8 The number is the number of still pictures that can be shot when not deleting the data which is registered in advance.
- \*9 Image size: QCIF (176 × 144 dots)/Image quality: NORMAL/File size limit: Unrestricted/Type: Image + voice
- \*10 File format: AAC format
- \*11 File format: WMA format
- \*12 When still picture, moving picture, music, melody, My document, Kisekae tool, Machi-chara, Chara-den, i-αppli, e-book/e-dictionary/ e-comic, Music&Video Channel, video or ToruCa are saved, the memory capacity of Chaku-uta<sup>®</sup>/Chaku-uta full<sup>®</sup> will be small.

## **Battery pack**

Product name	Battery Pack SH26
Battery	Lithium-ion
Nominal voltage	3.7V DC
Nominal capacity	900 mAh

# Estimated number of saved videos and recording time

	Number of entries	Recording time
FOMA terminal	Up to 99	Up to approx. 55 min
microSD Card (16 GB)*	Up to 99	Up to approx. 5,120 min

\* Record up to 2 GB (Approx. 640 minutes) of 1Seg for each time. The recording ends even if you use a microSD Card of more than 2 GB and the available memory space is sufficient.

# Number of saved/registered/protected entries

### in the FOMA terminal

Data type		Number of entries to be saved/registered	Number of entries to be protected
Phonebook		2,000*1, 2	-
1Seg	TVlink	50	-
	Reception/Recording	100 <sup>*3</sup>	-
Channel list		10	-
Music&Video cha	nnel program	22 <sup>*2</sup>	-
Music	Chaku-uta full <sup>®</sup>	57 <sup>*2</sup>	-
	Uta-moji Lyrics	100 <sup>*2</sup>	-
	Playlist	10	-
Schedule	Schedule	2,600 <sup>*2, 4</sup>	-
	Vacation	30	-
	Holiday	5 <sup>*5</sup>	-
Memo		2,600 <sup>*6</sup>	-
Mail (The total	Received mail	2,500 <sup>*2, 7, 8</sup>	2,500
number of SMS and i-mode mail)	Sent mail	500 <sup>*2, 7</sup>	500
	Unsent mail	500 <sup>*2</sup>	500
Area Mail		30	-
Deco-mail	Deco-mail	100 <sup>*8</sup>	-
templates	Decome-Anime	100 <sup>*8</sup>	-
Decome-Item	Pattern conversion	10	-
	Font	5	-
Message	Message R	50 <sup>*2</sup>	25
	Message F	50 <sup>*2</sup>	25
Bookmark		200	-
Screen memo		400 <sup>*2</sup>	400
Download dictiona	ary	10 <sup>*9</sup>	-
i-αppli		100 <sup>*2, 8</sup>	-

Data type	Number of entries to be saved/registered	Number of entries to be protected
Image	3,000*2, 8, 10	-
Moving picture/i-motion	200 <sup>*2, 8</sup>	-
Kisekae tool	50 <sup>*2, 8</sup>	-
Machi-chara	50 <sup>*2, 8</sup>	-
Chara-den	50 <sup>*2, 8</sup>	-
Melody	500 <sup>*2</sup>	-
PDF data	100 <sup>*2, 8</sup>	-
Word, Excel, PowerPoint	100	-
ToruCa	200*2	-
e-book/e-dictionary/e-comic	1,000 <sup>*2, 8</sup>	-
1Seg video	99 <sup>*2</sup>	-
Font (TTF)	3	-

\*1 You can save up to 50 entries in the UIM.

\*2 Saved amount may be reduced depending on status of using memory.

\*3 Total number of the timers for starting and recording programs.

\*4 The timers for starting and recording programs, and Memo are included.

\*5 You can save holidays besides national holidays already saved.

\*6 Schedule is included.

- \*7 In addition, you can save up to 20 received and sent SMS in the UIM.
- \*8 Pre-installed data which can be deleted is included.

\*9 You can set up to five dictionaries.

\*10 Still picture for which 1Seg programs is recorded is included.

# Specific Absorption Rate (SAR) of Mobile Phones

This model SH-05C mobile phone complies with Japanese technical regulations and international guidelines regarding exposure to radio waves. This mobile phone was designed in observance of Japanese technical regulations regarding exposure to radio waves (\*1) and limits to exposure to radio waves recommended by a set of equivalent international guidelines. This set of international guidelines was set out by the International Commission on Non-Ionizing Radiation Protection (ICNIRP), which is in collaboration with the World Health Organization (WHO), and the permissible limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health condition.

The technical regulations and international guidelines set out limits for radio waves as the Specific Absorption Rate, or SAR, which is the value of absorbed energy in any 10 grams of tissue over a 6-minute period. The SAR limit for mobile phones is 2.0 W/kg. The highest SAR value for this mobile phone when tested for use at the ear is 1.030 W/kg. There may be slight differences between the SAR levels for each product, but they all satisfy the limit.

The actual SAR of this mobile phone while operating can be well below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum required to reach the network. Therefore in general, the closer you are to a base station, the lower the power output of the device.

This mobile phone can be used in positions other than against your ear. This mobile phone satisfies the international guidelines when used with a carrying case or a wearable accessory approved by NTT DOCOMO, INC. (\*2). In case you are not using the approved accessory, please use a product that does not contain any metals, and one that positions the mobile phone at least 1.5 cm away from your body.

The World Health Organization has stated that present scientific information does not indicate that there are harmful effects attributed to the use of mobile devices. They recommend that if you are worried about your exposure then you can limit your usage or simply use a hands-free kit to keep the mobile device away from the head and body.

Please refer to the WHO website if you would like more detailed information. http://www.who.int/docstore/peh-emf/publications/facts\_press/fact\_english.htm Please refer to the websites listed below if you would like more detailed information regarding SAR.

Ministry of Internal Affairs and Communications Website:

http://www.tele.soumu.go.jp/e/sys/ele/index.htm

Association of Radio Industries and Businesses Website:

http://www.arib-emf.org/index02.html (in Japanese only)

NTT DOCOMO, INC. Website:

http://www.nttdocomo.co.jp/english/product/sar/

SHARP Corporation Website:

http://www.sharp.co.jp/products/menu/phone/cellular/sar/index.html

- (in Japanese only)
- \*1 Technical regulations are defined by the Ministerial Ordinance Related to Radio Law (Article 14-2 of Radio Equipment Regulations).
- \*2 Regarding the method of measuring SAR when using mobile phones in positions other than against the ear, international standards (IEC62209-2) were set in March of 2010. On the other hand, technical regulation is currently being deliberated on by national council (As of December, 2010).

#### European RF Exposure Information

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit for mobile devices is 2 W/kg and the highest SAR value for this device when tested at the ear was 0.998 W/kg\*.

As SAR is measured utilizing the devices highest transmitting power the actual SAR of this device while operating is typically below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum level required to reach the network.

The World Health Organization has stated that present scientific information does not indicate the need for any special precautions for the use of mobile devices. They note that if you want to reduce your exposure then you can do so by limiting the length of calls or using a hands-free device to keep the mobile phone away from the head.

\* The tests are carried out in accordance with international guidelines for testing.

#### Declaration of Conformity

# C€0168

Hereby, Sharp Telecommunications of Europe Ltd, declares that this SH-05C is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the original declaration of conformity can be found at the following Internet address:

http://www.sharp.co.jp/k-tai/ (in Japanese only)

#### FCC Notice

• This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

 Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

#### Information to User

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient/relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help.

#### FCC RF Exposure Information

Your handset is a radio transmitter and receiver.

It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The guidelines are based on standards that were developed by independent scientific organisations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless handsets employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.

The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model handset when tested for use at the ear is 0.863 W/kg and when worn on the body, as described in this user guide, is 0.684 W/kg.

Body-worn Operation; This device was tested for typical body-worn operations with the back of the handset kept 1.5 cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.5 cm separation distance between the user's body and the back of the handset. The use of beltclips, holsters and similar accessories should not contain metallic components in its assembly.

The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model handset is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/ea/fccid/ after searching on FCC ID APYHRO00134.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) Website at http:// www.ctia.org/.

# Export Administration Regulations

The Japan Export Administration Regulations ("Foreign Exchange and International Trade Law" and its related laws) will be applied to this product and its accessories under certain conditions. The Export Administration Regulations are also applied. To export or reexport this terminal and its accessories, conduct all legally required procedures at your own risk and expense. For details on the procedures, contact the Ministry of Economy, Trade and Industry or the US Department of Commerce.

# Intellectual Property Right

### Copyrights and rights of portrait

 Data with third party copyrights such as text, images, music and software that is downloaded or acquired via Internet web pages, shot by the FOMA terminal or acquired from TV or other video cannot be duplicated, altered or publicly transmitted without rightful party's consent. Only duplicating, quoting, etc. for personal use is permitted under copyright laws.

Even if for personal use, filming and recording may be prohibited for demonstrations, performances and exhibitions.

Also, shooting another's image or posting another's image on Internet web pages without their consent may constitute a violation of one's right to their image.

### **Registered trademarks and trademarks**

- "FOMA", "ToruCa", "Chara-den", "Deco-mail", "i-αppli", "i-motion", "i-mode", "DCMX", "WORLD WING", "WORLD CALL", "OFFICEED", "i-area", "2in1", "docomo PRO series", the "i-mode" logo, the "i-appli" logo are trademarks or registered trademarks of NTT DOCOMO. INC.
- This product contains software licensed by Symbian Foundation Limited. Symbian is a registered trademark of Symbian Foundation Limited.
- "Catch Phone (Call waiting service)" is a registered trademark of Nippon Telegraph and Telephone Corporation.
- "Multitask" is a registered trademark of NEC Corporation.
- Microsoft<sup>®</sup>, Windows<sup>®</sup>, Windows Vista<sup>®</sup>, PowerPoint<sup>®</sup> and Windows Media® are trademarks or registered trademarks of Microsoft Corporation in the U.S.A. and other countries.
- Microsoft Excel and Microsoft Word are product names of Microsoft Corporation in the U.S.A.
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- microSDHC Logo is a trademark of SD-3C, LLC.
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- CP8 PATENT
- This manual refers to each OS (Japanese version) as follows.
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  - Windows Vista is an abbreviation of Windows Vista<sup>®</sup> (Home Basic, Home Premium, Business, Enterprise, Ultimate).
  - Windows XP is an abbreviation of Microsoft<sup>®</sup> Windows<sup>®</sup> XP Professional operating system or Microsoft<sup>®</sup> Windows<sup>®</sup> XP Home Edition operating system.

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Others

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The HMM-Based Speech Synthesis System (HTS) hts\_engine API developed by HTS Working Group http://hts-engine.sourceforge.net/

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#### Check/Change the subscription, apply for various services, and request various information materials online. From i-mode iMenu ▶ お客様サポート (user support) ▶ お申込・お手続き (Applications/Procedures) ▶ 各種お申込・お 手続き (Various Applications/Procedures) [Packet communication charges free] (in Japanese only) My docomo (http://www.mydocomo.com/) ▶ 各種お申込・お手続き (Various Applications/Procedures) (in Japanese only)

- X You will need your "Network Security Code" to access the site from i-mode.
- \* No packet communication charges are incurred when accessing the site from i-mode. Accessing from overseas will incur charges.
- X You will need your "docomo ID/Password" to access the site from PC.
- X If you do not have or you have forgotten your "Network Security Code" or "docomo ID/Password", contact the number listed in General Inquiries on the back of this manual.
- ※ The site may not be available depending upon the content of your subscription.
- % You may not be able to access some site services due to system maintenance, etc.

## Using mobile phone with your manners!

Please be considerate of those around you when using a mobile phone in public places.

## Turn off your FOMA terminal in the following places

When in an area where use is prohibited Be sure to turn off a mobile phone on an aircraft, in a hospital and near the priority seats on the train.

## Set the Public mode in the following places

### While driving

Using a mobile phone in hand while driving is regarded as a punishable act. Some cases such as when rescuing sick and injured people or maintaining public safety are exempted.

When in public places such as theaters, movie theaters or museums

## Be considerate of the privacy of the individuals around you



Please be considerate of the privacy of individuals around you when taking and sending photos using

camera-equipped mobile phones.

## DOCOMO's contribution to environment

## Simplified manual

We simplified the manual and reduced paper consumption by explaining the basic operation in Japanese version of this manual.

You can check Guide (in Japanese only, contained in the FOMA terminal) and DOCOMO website for frequently-used function and detailed explanation.

## **Collecting and recycling of mobile phones**



For environmental protection and reuse of precious resources, mobile phone and PHS business operators are collecting and recycling all mobile phones, batteries, and chargers that customers no longer need irrespective of carrier at stores with the

モバイル・リサイクル・ネットワーク mark on the left.

Bring it to a docomo Shop near you.

#### General Inquiries <docomo Information Center>

#### (Business hours: 9:00 a.m. to 8:00 p.m.)

### 0120-005-250 (toll free)

※ Service available in: English, Portuguese, Chinese, Spanish, Korean. \* Unavailable from part of IP phones.

(Business hours: 9:00 a.m. to 8:00 p.m. (open all year round))

From DOCOMO mobile phones From land-line phones (In Japanese only) (In Japanese only)

## (No prefix) 151 (toll free)

0120-800-000 (toll free) % Unavailable from part of IP phones.

\* Unavailable from land-line phones, etc.

Please confirm the phone number before you dial.

#### Repairs

(Business hours: 24 hours (open all year round))

From DOCOMO mobile phones From land-line phones (In Japanese only)

(No prefix) 113 (toll free)

※ Unavailable from land-line phones, etc.

(In Japanese only) 0120-800-000 (toll free)

※ Unavailable from part of IP phones.

• For Applications or Repairs and After-Sales Service, please contact the above-mentioned information center or the docomo Shop etc. near you on the NTT DOCOMO website or the i-mode site.

NTT DOCOMO website http://www.nttdocomo.co.jp/english/

i-mode site iMenu ▶お客様サポート (user support) ▶ドコモショップ (docomo Shop) % In Japanese only

#### Loss or theft of FOMA terminal or payment of cumulative cost overseas <docomo Information Center>

#### (available 24 hours a day)

#### From DOCOMO mobile phones

International call access code -81-3-6832-6600\* (toll free)

\* You are charged a call fee to Japan when calling from a land-line phone, etc. % If you use SH-05C, you should dial the number +81-3-6832-6600 (to enter "+", touch [0/+] for a while).

#### From land-line phones

#### <Universal number>

Universal number -8000120-0151\* international prefix

\* You might be charged a domestic call fee according to the call rate for the country you stay.

\* For international call access codes for major countries and universal number international prefix, refer to DOCOMO International Services website.

#### Failures encountered overseas <Network Support and Operation Center>

(available 24 hours a day)

#### From DOCOMO mobile phones

#### International call access code for the country you stay

-81-3-6718-1414<sup>\*</sup> (toll free)

\* You are charged a call fee to Japan when calling from a land-line phone, etc. % If you use SH-05C, you should dial the number +81-3-6718-1414 (to enter "+", touch [0/+] for a while).

#### From land-line phones

#### <Universal number>

Universal number international prefix -8005931-8600\*

\* You might be charged a domestic call fee according to the call rate for the country you stay. % For international call access codes for major countries and universal number international prefix, refer to DOCOMO International Services website.

- If you lose your FOMA terminal or have it stolen, immediately take the steps necessary for suspending the use of the FOMA terminal.
- If the FOMA terminal you purchased is damaged, bring your FOMA terminal to a repair counter specified by DOCOMO after returning to Japan.



To prevent damage to the environment, bring used battery packs to a docomo service counter, a docomo agent or a LI-Ion00 recycle center.

#### Don't forget your mobile phone... or your manners!

When using your mobile phone in a public place, don't forget to show common courtesy and consideration for others around you.

Sales: NTT DOCOMO, INC. Manufacturer: SHARP Corporation

> '11.1 (1st Edition) 11A SM113①

## SH-05C Manual for PC Connection

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#### Manual for PC Connection

This manual explains the necessary items to perform the data communication with SH-05C and the installation methods of "FOMA communication configuration file" and "DOCOMO Connection Manager" in the CD-ROM.

The operation procedure and screens may be partly different depending on the use environment.

## **Data communication**

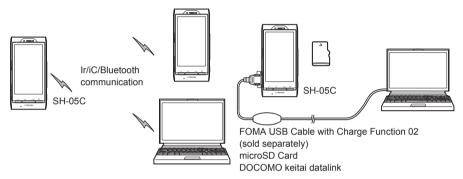
## Data communication available for the FOMA terminal

The FOMA terminal communication formats fall into three categories: packet transmission, 64K data communication and data transfer.

- The FOMA terminal does not support fax transmissions.
- The FOMA terminal supports data communication with sigmarion II. The high-speed communication for FOMA HIGH-SPEED area is not supported.
- The FOMA terminal is not compatible with Remote Wakeup.
- Unable to use 64K data communication by connecting a PC, etc. overseas.
- To use packet transmission overseas, communicate with IP connection (PPP connection is not available for packet transmission).

#### ■ Data transfer (OBEX<sup>™</sup> communication)

Send or receive data such as images, music, phonebook entries, and messages between the FOMA terminal and another FOMA terminal or PC, etc.



#### Packet transmission

Charges incurred are based on the amount of data sent and received. When you are only connected to the network and are not sending or receiving data, no communication charges are incurred. Remain connected to the network, with no charge, and only send or receive data when necessary.

Uses access points that are compatible with the FOMA packet transmission, such as the DOCOMO Internet connection services "mopera U", and the data can be received and sent at speeds up to 7.2 Mbps and 5.7 Mbps respectively (A best-effort system is provided in which transmission speeds vary depending on the transmission environment and network traffic conditions).

- The maximum values (7.2 Mbps and 5.7 Mbps) are the values based on the technical standard, and not the actual transmission speed. The actual transmission speed varies depending on the network congestion or transmission environment.
- The transmission speeds may slow outside the FOMA HIGH-SPEED area or when connecting to the access point that does not support HIGH-SPEED or when using the device that does not support HIGH-SPEED such as DOCOMO's PDA "sigmarion III".

For a packet transmission, connect the FOMA terminal to a device such as a PC using FOMA USB Cable with Charge Function 02 (sold separately) or Bluetooth function and perform appropriate settings. Best suited for sending and receiving mail text data or other relatively small amounts of data at high speeds. Note that sending or receiving large files will lead to higher transmission charges.

Making voice calls while performing packet transmission with a PC or other devices is possible.

#### 64K data communication

Charges incurred are based on the connection time. Uses access points that are compatible with FOMA 64K data communication, such as the DOCOMO Internet connection services "mopera U", or a synchronous ISDN 64K access point. For 64K data communication, connect the FOMA terminal to a device such as a PC using FOMA USB Cable with Charge Function 02 or Bluetooth function and perform appropriate settings. Best suited for sending and receiving relatively large amounts of data, such as downloading Data box contents. Note that a long-time communication leads to higher transmission charges.

1

## Things to keep in mind

#### Internet service provider fees

When using the Internet, usage fees are charged by the Internet service provider. These usage fees, paid to the Internet service provider, are separate from the FOMA service fee. Contact your Internet service provider for more information about usage fees.

Use the DOCOMO Internet connection services "mopera U". "mopera U" requires subscription (fees apply).

#### Host (Internet service provider, etc.) settings

Hosts for a packet transmission and 64K data communication differ. For a packet transmission, use a host that supports the FOMA packet transmission, and for a 64K data communication, use a host that supports the FOMA 64K data communication or synchronous ISDN 64K communication.

- Connecting to DoPa access points is not possible.
- Check the mopera website for details on the service contents of mopera and the connection setting method. http://www.mopera.net/mopera/index.html

#### Packet transmission and 64K data communication conditions

The following conditions are necessary for a data transmission (packet transmission/64K data communication) using the FOMA terminal in Japan.

- The PC must support the FOMA USB Cable with Charge Function 02.
- When using Bluetooth function, PC must be compatible with Bluetooth specification ver.1.1, ver.1.2, or ver. 2.0+EDR (Dial-up Networking Profile).
- Must be within the FOMA service area.
- For a packet transmission, the access point must be compatible with the FOMA packet transmission.
- For a 64K data communication, the host must support the FOMA 64K data communication or synchronous ISDN 64K communication.

However, even if above conditions are met, communication may not be possible due to a busy base station or poor signal conditions.

 When performing a packet transmission, the device connected to your FOMA terminal must be a JATE (Japan Approvals Institute for Telecommunications Equipment) authorized product.

#### Access authentication for using browser

The FirstPass (Client certificate) is required for access authentication when using FirstPass compatible sites with PC browser. Check the DOCOMO website for details.

## Before using data communication

## **Operating environment**

The following lists the operating environments for using data communications.

Item	System requirements
PC	PC/AT compatible When using FOMA USB Cable with Charge Function 02 (sold separately): A USB port (Universal Serial Bus Specification Rev1.1/2.0-compliant) When using Bluetooth function: Bluetooth specification ver.1.1, ver.1.2, or ver. 2.0+EDR-compliant (Dial-up Networking Profile) Display resolution 800 × 600 dots or more and High Color 16 bits or more are recommended • 1024 × 600 dots or more for DOCOMO Connection Manager (1024 × 768 dots or more is recommended)
OS	Windows XP, Windows Vista, Windows 7 (all Japanese versions)
Required memory	Windows XP: At least 128 MB Windows Vista: At least 512 MB Windows 7 (32 bit version): At least 1 GB Windows 7 (64 bit version): At least 2 GB
Hard disk	At least 5 MB free space • At least 10 MB free space for DOCOMO Connection Manager
Web browser*	Internet Explorer 6.0 or later
E-mail client*	Windows Mail or Outlook Express 6.0

\* The operating environments are required for DOCOMO Connection Manager.

- Check the DOCOMO website for the latest information of operating environment.
- Required memory and hard disk may differ depending on the PC system configuration.

- Microsoft Internet Explorer 7.0 or later is recommended for activating menus. Microsoft Internet Explorer 6.0 or later is recommended for Windows XP.
- Take the steps below when menus do not appear even if the CD-ROM is set.

#### For Windows 7

In the [スタート] (Start) menu of Windows, specify [<CD-ROM drive name>:index.html] in the [プログラムと ファイルの検索] (Program and file search) field and click [index.html] displayed in the search result field.

#### For Windows Vista

In the [スタート] (Start) menu of Windows, specify [<CD-ROM drive name>:index.html] in the [検索の開始] (Start search) field and click [index.html] displayed in the search result field.

#### For Windows XP

In the [スタート] (Start) menu of Windows, click [ファイル名を指定して実行] (Run), specify [<CD-ROM drive name>:index.html] and click [OK].

- The operation in an environment with an upgraded, added or changed OS cannot be guaranteed.
- Depending on the operating environment, the use of the software may not be possible. DOCOMO holds no responsibility for responding to inquiries or guaranteeing operation in environments other than those specified above
- The warning message may appear when a CD-ROM is set in a PC. This warning is shown by the security setting of Internet Explorer but does not cause any problem for use. Click [はい] (Yes).

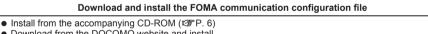
### **Required equipment**

The following hardware and software are required besides the FOMA terminal and a PC.

- FOMA USB Cable with Charge Function 02 (sold separately)\* or FOMA USB Cable (sold separately)\*
- CD-ROM "SH-05C CD-ROM" (accessory)
- \* For USB connection
- Use a dedicated USB cable "FOMA USB Cable with Charge Function 02" or "FOMA USB Cable". USB cables for PC are not available since the connector shape is different.
- The use of a USB HUB may not work correctly.

## Flow of setup for data transfer (OBEX<sup>™</sup> communication)

#### FOMA USB Cable with Charge Function 02 (sold separately) is required to install the FOMA communication configuration file.

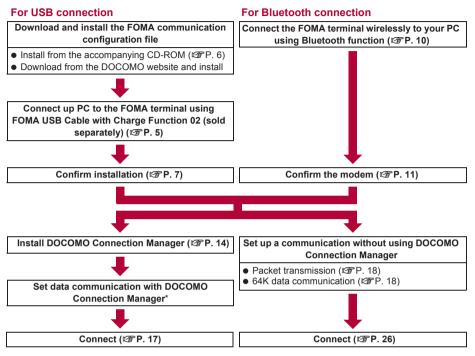


Download from the DOCOMO website and install



## Flow of setup for data communication

This section describes the preparation required to connect the FOMA terminal to your PC, and use a packet transmission and 64K data communication. The flow is as shown below.



- \* Refer to "DOCOMO Connection Manager operation manual.pdf" for details on setting DOCOMO Connection Manager.
- Use the broadband connection, etc. compatible "mopera U" (subscription necessary) for the convenient use of Internet with the FOMA terminal. There is a plan that only charges for months which the service was used.

## FOMA communication configuration file

To connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02 for a data communication, installation of the FOMA communication configuration file from the accompanying CD-ROM is required (27 P. 6 to P. 9).

- If installation fails and [FOMA SH05C] is not listed in the screens of step 3 of "Confirming installed FOMA communication configuration file (Driver)" on P. 8, uninstall the FOMA communication configuration file (IPP . 8) and install it again.
- If, for some reason, the PC is unable to recognize the FOMA terminal, uninstall the FOMA communication configuration file (127 P. 8) and install it again.

## **Preparing Bluetooth connection**

Make data communication by connecting the FOMA terminal wirelessly to a Bluetooth compatible PC. • For details on Bluetooth connection I P. 10

## **DOCOMO Connection Manager**

Install DOCOMO Connection Manager from the accompanying CD-ROM to a PC and make a variety of necessary settings to perform a packet transmission and 64K data communication connecting the FOMA terminal to the PC (127 P. 12).

## Connecting up PC to the FOMA terminal

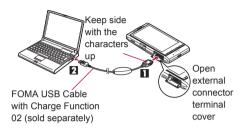
Connect the FOMA terminal to your PC with both devices turned on. If the FOMA terminal is connected to your PC, [1] appears on the FOMA terminal screen. If the FOMA communication configuration file is not installed, install the file before connecting the FOMA terminal to the PC (137 P. 6).

• Refer to P. 10 for details on connecting the FOMA terminal wirelessly to your PC using Bluetooth function.

## Connecting using FOMA USB Cable with Charge Function 02

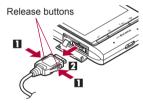
Insert the FOMA side of the FOMA USB Cable with Charge Function 02 (sold separately) into the external connector terminal on the FOMA terminal (1).

Insert the PC side of the FOMA USB Cable with Charge Function 02 into the PC USB connector (2).



#### How to remove

- 1 Hold the release buttons on the FOMA terminal side of the FOMA USB Cable with Charge Function 02 (■), and pull out from the FOMA terminal (2).
  - Pull by force may cause a malfunction.
- **2** Pull the FOMA USB Cable with Charge Function 02 out from the PC.



- Set USB mode setting of the FOMA terminal to [Communication mode] and connect.
  - To set to communication mode: In the Normal menu on the FOMA terminal, select [Setting] [External connection]
     [USB mode] [Communication mode].
- Do not remove the FOMA USB Cable with Charge Function 02 during data transmission. Otherwise, transmission disconnection or data loss may occur.

## Installing FOMA communication configuration file

## To make data communication by connecting the FOMA terminal to a PC via FOMA USB Cable with Charge Function 02 (sold separately), the FOMA communication configuration file is required.

- End all resident software before the FOMA communication configuration file (Driver) is installed.
- When connecting with other than FOMA USB Cable with Charge Function 02, installing the FOMA communication configuration file is not required.

#### Installing FOMA communication configuration file (Driver)

- Install on the PC using a user with administrator rights.
- ・When User Account Control screen appears, click [はい] (Yes) or [許可] (Permitted) and [続行] (Continue).
- Perform steps 1 to 6 first, and then connect the FOMA terminal to the PC.
  - Insert the accompanying CD-ROM into your PC.
    - The initial screen appears.



2 Click [データリンクソフト・各種設定ソフト] (Data link software/Setting software) ▶ [Windows® 7 (32ビット版) 用] (For Windows® 7 (32 bit version)) in the [FOMA通信設定ファイル (USBドライバ)] (FOMA communication configuration file (USB driver)) field.

#### For Windows 7 (64 bit version)

1 Click [Windows<sup>®</sup> 7 (64ビット版) 用] (For Windows<sup>®</sup> 7 (64 bit version)).

#### For Windows Vista (32 bit version)

1 Click [Windows Vista<sup>®</sup> (32ビット版) 用] (For Windows Vista<sup>®</sup> (32 bit version)).

#### For Windows Vista (64 bit version)

1 Click [Windows Vista<sup>®</sup> (64ビット版) 用] (For Windows Vista<sup>®</sup> (64 bit version)).

#### For Windows XP

1 Click [Windows<sup>®</sup> XP用] (For Windows<sup>®</sup> XP).

## Double-click [SH\_Setup.exe].

### For Windows Vista and Windows XP

1 Double-click [SH05Cs.exe] and proceed to step 6.



Make sure that [セットアップ後ドライバインストールを開始する。] (Start installing driver after setup.) shows 🗹 and click [セットアップ開始] (Start setting up).

• When  $\square$  appears instead, change to  $\blacktriangleright$ .

When the setup complete screen appears, click [OK].

Click [インストール開始] (Start install).

- Connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02 when [FOMA SH05CとPCをFOMA USB接続ケーブルにて接続してく ださい。] (Connect the FOMA SH05C to your PC via FOMA USB Cable.) appears.
  - The installation in progress screen appears and installation automatically begins.
  - Connect the FOMA terminal while the power is on.

## 8 Click [OK] when [FOMA SH05Cドライバのインストールが完了しました。] (Installation of FOMA SH05C driver is completed.) appears.

- Installation of the FOMA communication configuration file finishes.
- Installation may take a few minutes.
- When [プログラム互換性アシスタント] (Program Compatibility Assistant) appears, click [このプログラムは正しくインストールされました] (This program installed correctly).
- When a message prompting to restart the PC appears, follow the instruction and restart.
- When [他のデバイスドライバのインストールが終了後に再度インストーラを実行してください。] (Run the installer again after other device drivers are installed) appears, uninstall other drivers automatically installed and install the driver. Refer to "Uninstalling FOMA communication configuration file (Driver)" for steps on uninstalling.

## Confirming installed FOMA communication configuration file (Driver)

If the FOMA terminal is not properly recognized by the PC, setup and communications are not possible.

Example: Confirming Windows 7 drivers

• The screens are different for Windows Vista and Windows XP.

## Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel) and click [システムとセキュリティ] (System and security).

• System properties screen appears.

#### For Windows Vista

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).

2 Click [システムとメンテナンス] (System and maintenance) ▶ the [システム] (System) icon. For Windows XP

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).

2 Click the [パフォーマンスとメンテナンス] (Performance and maintenance) icon ▶ the [システム] (System) icon.

## ႗ Click [デバイスマネージャー] (Device manager).

• The device manager screen appears.

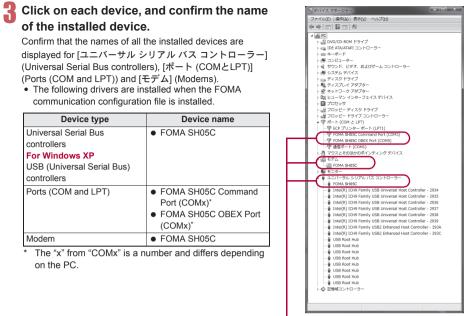
#### For Windows Vista

1 Click [デバイスマネージャ] (Device manager) in [タスク] (Task).

#### For Windows XP

**1** Click the [ハ - ドウェ 7] (Hardware) tab.

**2** Click [デバイスマネージャ] (Device manager).



If recognized, they will appear in this manner.

• If installation fails or [FOMA SH05C] does not appear in the screen of step 3, uninstall the file and then install it again. Refer to "Uninstalling FOMA communication configuration file (Driver)" for steps on uninstalling.

### Uninstalling FOMA communication configuration file (Driver)

This section describes how to uninstall the FOMA communication configuration file.

When uninstalling the FOMA communication configuration file, the PC user must have administrator rights. An
error will occur when other users attempt to uninstall this software.

Contact the computer manufacturer or Microsoft Corporation for information about configuring the administrator rights setting.

・When User Account Control screen appears, click [はい] (Yes) or [許可] (Permitted) and [続行] (Continue).

#### Uninstalling from control panel

Example: Uninstalling from Windows 7

The screens are different for Windows Vista and Windows XP.

### 【 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel) and click [プログラムのアンインストール] (Uninstall programs).

• The [プログラムのアンインストールまたは変更] (Uninstall or change programs) screen appears. For Windows Vista

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel). 2 Click [プログラム] (Programs) ▶ the [プログラムと機能] (Programs and features) icon. For Windows XP

#### 1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).

- 2 Click the [プログラムの追加と削除] (Add/Remove programs) icon.
  - The [プログラムの追加と削除] (Add/Remove programs) screen appears.

## Double-click [FOMA SH05C USB].

### For Windows XP

1 Select [FOMA SH05C USB]. 2 Click [変更と削除] (Change/Remove).

## When [FOMA SH05C ドライバーのアンインストールを行います。] (Uninstall FOMA SH05C driver.) appears, click [はい] (Yes).

- Uninstallation of the FOMA communication configuration file begins.
- When [アンインストールは完了しました。PCを再起動してください。] (Uninstallation of the driver is completed. Restart the PC.) appears, click [OK] and restart the PC.
  - Uninstallation of the FOMA communication configuration file finishes.

## Delete device metadata (I P. 9).

- If "FOMA SH05C USB" is not displayed on the [プログラムのアンインストールまたは変更] (Uninstall or change programs) screen, double-click "SH05Cc.exe" in the ¥SH-05C\_driver\_win7\_32¥Win7\_32 folder\* of the accompanying CD-ROM to uninstall.
  - \* For Windows 7 (64 bit version): In the ¥SH-05C\_driver\_win7\_64¥Win7\_64 folder For Windows Vista (32 bit version): In the ¥SH-05C\_driver\_vista32¥WinVista32 folder For Windows Vista (64 bit version): In the ¥SH-05C\_driver\_vista64¥WinVista64 folder For Windows XP: In the ¥SH-05C\_driver\_win\_xp¥Win\_XP folder
- When [プログラム互換性アシスタント] (Program Compatibility Assistant) appears, click [このプログラムは正しくインストールされました] (This program installed correctly).

### Deleting device metadata

For Windows 7, device metadata is not deleted even if uninstalling the FOMA communication configuration file (Driver). This is not a problem for PC use, but follow the steps below to delete device metadata.

Set on the PC using a user with administrator rights.

・When User Account Control screen appears, click [はい] (Yes) or [許可] (Permitted) and [続行] (Continue).

## Perform steps 1 and 2 of "Installing FOMA communication configuration file (Driver)" on P. 6.

Double-click [SH\_DeleteMetadata.exe].

- 3 Make sure that [メタデータ削除後ドライバアンインストールを開始する。] (Start uninstallation of the driver after deleting metadata.) shows □ and click [削除開始] (Start deleting).
  - To uninstall the FOMA communication configuration file (Driver) successively after deleting the device metadata, change 
    to 
    .

### When the uninstall complete screen appears, click [OK].

Deletion of the device metadata finishes.

When [プログラム互換性アシスタント] (Program Compatibility Assistant) appears, click [このプログラムは正しくインストールされました] (This program installed correctly).

## **Preparing Bluetooth connection**

## Make data communication by connecting the FOMA terminal wirelessly to a Bluetooth compatible PC.

- When making data communication using Bluetooth function, the transmission speeds of FOMA terminal is for HIGH-SPEED, however, the data communication may not be available at maximum speed because the transmission speeds of Bluetooth function have limitations.
- Use a Bluetooth-linked standard modem or a Bluetooth modem provided by the Bluetooth maker. Contact the maker of your PC or Bluetooth maker for information on installation and setting methods.
- Refer to the PC manual of your PC for the details on operating it.

## Connecting the FOMA terminal wirelessly to your PC using Bluetooth function

To connect a PC to the FOMA terminal for the first time, register the PC on the FOMA terminal. • Operate the PC and the FOMA terminal.

- Registering a PC on the FOMA terminal
  - In the Normal menu on the FOMA terminal, select [Tool] ▶ [Bluetooth] ▶ [Accept registered].

Search and register the Bluetooth device from the PC.

- For the FOMA terminal, keep the stand-by screen displayed.
- Select [Yes], enter the Bluetooth passkey and select [Enter] on the FOMA terminal after the message stating that the device is registered appears on the FOMA terminal display.
  - Enter up to 4 to 16 digits for a Bluetooth passkey.
  - Enter the same Bluetooth passkey for both the FOMA terminal and PC.
  - The PC is registered.
  - To connect the FOMA terminal wirelessly to your PC successively, proceed to step 2 of "Connecting the FOMA terminal to the registered PC".

• Register the device approximately within 5 minutes after placing the FOMA terminal on stand-by for connection.

Connecting the FOMA terminal to the registered PC

In the Normal menu on the FOMA terminal, select [Tool] | [Bluetooth].

Point the cursor to [Accept registered] and select [Type].

Set [Dial-up(DUN)] to 🗹 and select [Confrm].

## Make a connection from the PC.

• Automatically connect and [3 (blue)] flashes at approximately 0.5-second intervals. The icon changes to [3 (gray)] when data is not transmitted from the FOMA terminal for a set length of time.

## **Confirming modem**

Before setting communication, confirm the name and COM port number of the modem set for connecting the dial-up service.

• Operate the PC.

Example: Confirming Windows 7 drivers

• The screens are different for Windows Vista and Windows XP.

## Click [スタート] (Start) menu > [コントロールパネル] (Control panel) and click 「システムとセキュリティ」 (System and security).

• The system property screen appears.

#### For Windows Vista

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).

**2** Click [システムとメンテナンス] (System and maintenance) the [システム] (System) icon. For Windows XP

1 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel).

2 Click the [パフォーマンスとメンテナンス] (Performance and maintenance) icon ▶ the [シス テム1 (System) icon.

## 2 Click [デバイスマネージャー] (Device manager). • The device manager screen appears.

### For Windows Vista

1 Click [デバイスマネージャ] (Device manager) in [タスク] (Task). For Windows XP **1** Click the  $[ハ - ド ウ _ { T } ]$  (Hardware) tab.

**2** Click [デバイスマネージャ] (Device manager).

Click each device, and then confirm the modem name or COM port number.

## Stopping dial-up communication service

Operate the FOMA terminal.

Select [MULTI/2] during communication and select [Tool] [Bluetooth] [List/con./discon.].

Select the Bluetooth device that is connected and select [Yes].

## Set network transmission with DOCOMO Connection Manager

## **DOCOMO Connection Manager**

"DOCOMO Connection Manager" is a software which is convenient for using flat-rate data communication and measured-rate data communication. Easily subscribe to mopera U or set the PC depending on the subscription.

In addition, use the charge counter function to check the approximate amounts of data transmission or usage fee.



- This manual describes the installation method of DOCOMO Connection Manager.
- Subscription to the Internet service provider (mopera U, etc.), compatible with the service and data communication is required to connect to the Internet using the terminal.
- Refer to the DOCOMO website for details.

#### Using measured-rate data communication (including i-mode flat-rate packet transmission service, etc.)

 Note that transmitting large amounts of data using packet transmission, such as viewing a website with images and downloading data (Example: application, music or movie data, updating OS or antivirus software) will lead to higher transmission charges.

Note that flat-rate packet transmission service, "Pake-hodai", "Pake-hodai full", do not apply to charges of data transmission with this FOMA terminal connected to PC, etc. using a USB cable.

#### Using flat-rate data plan

• Subscription to the billing plans and Internet service provider, compatible with the flat-rate data communication are required to use the flat-rate data plan. Check the DOCOMO website for details.

#### Using mopera

 Check the mopera website for details on the connection setting method. http://www.mopera.net/mopera/support/index.html

## Before installing DOCOMO Connection Manager

#### Installation flow

#### **STEP 1 Setup preparation**

Prepare the FOMA terminal and the FOMA USB Cable with Charge Function 02 (sold separately) or the FOMA USB Cable (sold separately).

### STEP 2 Confirming the content of subscription

Confirm the content of subscription to the service and Internet service provider.

#### STEP 3 Changing the settings

If the connection software other than DOCOMO Connection Manager is installed, change the setting as necessary not to activate automatically.

Refer to "Using the connection software other than DOCOMO Connection Manager" on P. 13.

#### Setting Internet Explorer

Before installing this software, set the connection setting to  $[\acute{PTTULtil}(No)]$  (No) on the internet option of Internet Explorer.

- **1** Activate Internet Explorer and click  $[\forall -\mu]$  (Tool)
- [インターネットオプション] (Internet option).
- 2 Click the [接続] (Connection) tab and then select [ダ イヤルしない] (No).
- **3** Click [OK].



### Logon with a user which uses DOCOMO Connection Manager.

#### For Windows 7 and Windows Vista

 Administrator account is required. If PC is logged on with other than manager account, a screen to enter the user name and password appears during install.

#### For Windows XP

• Logon with a user which belongs to the Administrators Group or a user of "Computer administrator".

#### End all activating applications.

- Programs remained on Windows including anti-virus software are also ended.
- Example: Right-click the icon displayed in the task bar and select [閉じる] (Close) or [終了] (Exit).

#### Using the connection software other than DOCOMO Connection Manager

• This software has built-in functions equal to the following software. The following software is not required to be used simultaneously.

Change the setting not to activate or uninstall them as necessary.

- The software not required to be used simultaneously
  - mopera U start up tool
     mopera U connection & setting tool
  - FOMA PC configuration software
     FOMA byte counter

In addition, when using Mzone (DOCOMO public wireless LAN service) with this software, uninstall the following public wireless LAN connection software.

- % If the following software is installed simultaneously, Mzone connection with this software is not available.
- U public wireless LAN utility software
- DOCOMO public wireless LAN utility software
- DOCOMO public wireless LAN utility program

## Installing DOCOMO Connection Manager

Example: Installing to Windows 7

• The screens are different for Windows Vista and Windows XP.

### Insert the accompanying CD-ROM into your PC.

• The initial screen appears.



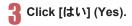
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## Click [インターネット接続] (Internet connection) ▶ [インストール] (Install) of [③ドコモ コネクションマネージャのイン ストール] (③ Install DOCOMO Connection Manager) in the [本CD-ROM からのFOMAデータ通信の設定方法] (Setting method for FOMA data communication using this CD-ROM) field.

 When [インストール] (Install) is clicked, the following warning message may appear. This warning is shown by the security setting of Internet Explorer but does not cause any problem for use.

■ When the "ファイルのダウンロード - セキュリ ティの警告" (File download - Security warning) screen appears Click [実行] (Run). 

このファイノ	レを実行または	保存しますか?		
	種類	dcm_connect_m アプリケーション, D:¥dcm_connec 実行( <u>R</u> )	12.8 MB	キャンセル
	インターネットの 題を起こす可能	ファイルは役に立ちます。 2性があります。発信テ	が、このファイルの種業 モが言頼できない場合 。危険性の説明	酸コンピューターに問 は、このソフトウェアを





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✓ 詳細(D)

されるのを防ぎます。

#### For Windows Vista

1 Click [続行] (Continue).

#### For Windows XP

• User Account Control screen does not appear. The setup program is activated soon.



割 ドコモ コネクションマネー	-St
	ドコモ コネクションマネージャ用のInstallShield ウィザードへようこ そ
	InstalSheb(R)ウィザードは、ご使用のコンピュータへ ドンモ コネ グジョンマネージャ をインストールします。「次へ」を押して、統行し てください。
Z	警告:このプログラムは、著作権法わよび国際協定によって伴随 されてします。
	< 戻る(B) 次へ(N) > キャンセル

ユーザー アカウント制御は、あなたの許可なくコンピュータに変更が適用

続行(C) キャンセル

## 「 Confirm the content and click [次へ] (Next).

• The precaution appears. Make sure to confirm its content. Click [キャンセル] (Cancel) to cancel the installation.

注意事項 )太の注意事項をお読みください。	döcomo
<b>IFコモ コネクションマネージャルとは ?</b> IFコモ コネクションマネージャルとは、ドコモのFOK 的の根核を被用に行か紙能 、	)概算額を把握するための料金力 通信用のソフトウェアです。「定額
リバケット通信料の高額利用に関するご注意 ■コンピュータ等に撤続してデータ通信を行う場合	は、FOMAのパケット定額サービー・
stalShield	印刷(P)

## Read the licensing agreement and select [使用許諾契約の条項に同意します] (Agree to articles of the user licensing agreement) and then click [次へ] (Next) to agree.

 This is the user licensing agreement for DOCOMO Connection Manager. Click [キャンセル] (Cancel) to cancel the installation.

## Confirm the destination program folder and click [次へ] (Next).

To change the destination program folder, click [変更] (Change), select a destination for installation and click [次へ] (Next).







InstallShield	
	< 戻る(B) 次へ(N) > キャンセル
週 ドコモ コネクションマネージャ	×
プログラムをインストールする準備ができ ウィザードは、インストールを開始する	dacama
「インストール」を押して、インストール	を開始してください。
インストール改革を分裂したり支援 と、ウィザードを終了します。 InstaliSheld	(する場合は、「戻る」を押してください、「キャンセル」を押す (
週 ドコモ コネクションマネージャ	×
Ins	taliShield ウィザードを充了しました
k4	モ 3ネクションマネージャ を正常にインストール(よけん、スター ニュー(NTT OGONO トービュ スネク) 3氏 コネクションマネージャ)を起動してください。
	< 戻る(B) 完了(F) キャンセル

For Windows XP, when MSXML6 and Wireless LAN API are not installed, their installation is required before
installing DOCOMO Connection Manager. When confirmation screen appears, click [Install] and install MSXML6 and
Wireless LAN API. Restart Windows after installation of MSXML6 and Wireless LAN API is completed, then
installation of DOCOMO Connection Manager automatically begins.

## **Activating DOCOMO Connection Manager**

- Select [スタート] (Start) menu ) [す べてのプログラム] (All programs) ) [NTT DOCOMO] ) [ドコモコネク ションマネージャ] (DOCOMO Connection Manager) ) [ドコモコ ネクションマネージャ] (DOCOMO Connection Manager).
  - When the software is activated for the first time, the setting wizard appear. Operate and make the setting according to the guidance from the software to prepare for the

1.接続確認	<ul> <li>FOMAデー交換制に必要な設定を行います。</li> <li>パリエンとFOMAの接続を確認します。</li> </ul>
water to Debise an	のパンコンとFOMAをはじめて接続するには、ドライバのインストールが必要です。 ドライバ来インストールの場合、ドライバをインストールして伏さい。
2. 利用機器設定	©ドライバインストール後、パリエンとFOMAを接続します。
ATT in concension	播破技術、じかへまがしてください。
()) 3. 接統先設定	※HIGH-SPEED対応POなご利用の場合は、ご利用の機器が接続可能な状態が確認し、 しない活発とを押して代払い。
Ψ.	
🌮 4. その他の設定	
-	
5. 完了	
	+

connection to the Internet. Refer to "DOCOMO Connection Manager operation manual.pdf" for details.

Communication is not disconnected by only ending the internet browser or mail software.
 Be sure to disconnect the communication with [切断する] (Disconnect) button of DOCOMO Connection Manager when communication is not in use.

If the automatic update is set for updating OS, etc., the software is automatically updated and it may lead to higher Packet transmission charges.

E I	予 パケット(後	注量) 🤶 N	fzone 64Kデータ通信	
			に接続が完了しました。 タンを押してください。	
	接続先	mopera U ((#	(星)	
	通信量	XXX.X K/ (-	イト(X.XXX/パケット)	
	通信科	XXX円	当月振算料金 XXX円	
		i	通信中です	
		( +	辺断する	Connect/Disconnect b

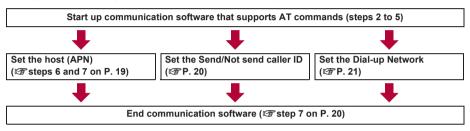
## Set network transmission without using DOCOMO Connection Manager

## Setting communications for packet transmission and 64K data communication

This section describes how to set up packet transmission and 64K data communication without using DOCOMO Connection Manager.

To make the settings, communication software for entering AT commands are required. "Hyper terminal" is used here.

- The flow for setting up with use of AT commands is as follows.
- To use 64K data communication, there is no host (APN) setting.
- For Windows 7 or Windows Vista, "Hyper terminal" is not included as standard. Use compatible software to set up communications (follow the instructions for the software).



- Install the FOMA communication configuration file before making settings for packet transmission and 64K data communication (IGP P. 6).
- AT commands are commands for controlling the modem. The FOMA terminal is compliant with AT commands and also supports some extended commands, as well as some unique AT commands.
- Making host (APN) settings is not necessary when using mopera U or mopera, the DOCOMO Internet connection service, since it is set as the default.
- Set Notify caller ID as necessary (When using mopera U or mopera, set [Send]). The default setting is [Not send].
- Set other settings as necessary. Use is possible with the default settings.

## Setting host (APN)

Set the host (APN) for using packet transmission. Register up to ten numbers. Hosts are managed using cid numbers from 1 to 10 (IPP. 19). The default setting for cid1 is "mopera.ne.jp", the APN used to connect to mopera (<PDP\_type> is "PPP"). The default setting for cid2 is "mopera.net", the APN used to connect to mopera U (<PDP\_type> is "PPP"). The default setting for cid3 is "mopera.net", the APN used to connect to mopera U (<PDP\_type> is "IPP"). The default setting for cid3 is "mopera.net", the APN used to connect to mopera U (<PDP\_type> is "IPP"). The default setting for cid4 is "mopera.net", the APN used to connect to mopera U (<PDP\_type> is "PPP"). Save hosts (APN) to cid5 to 10.

- The registered cid is the connection number set in the dial-up connection settings.
- A separate host (APN) is required to be set for USB connection and Bluetooth connection.
- If USB connection and Bluetooth connection are switched during packet transmission, the host (APN) is required to be set again.
- Contact the Internet service provider or network administrator for hosts (APNs) other than mopera U or mopera.

Example: Using FOMA USB Cable with Charge Function 02 (sold separately) on Windows XP

## Connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02.

## 2 Select [スタート] (Start) menu ▶ [すべてのプログラム] (All programs) ▶ [アクセ サリ] (Accessories) ▶ [通信] (Communications) ▶ [ハイパーターミナル] (Hyper terminal).

• Hyper terminal starts up.

## 子 Enter a name (such as a host name) in the [名前] (Name) field and click [OK].

• The advanced settings screen for phone number appears.

Select [FOMA SH05C] from [接続方法] (Connection method), enter a temporary number in the [電話番号] (Phone number) field that does not actually exist (such as [0]), and click [OK].

• For the area code, the default setting in Windows (such as [03]), appears. Set any number for the area code, since it is not related to the host (APN) setting.



## When the connection screen appears, click [キャンセル] (Cancel).

## Enter host (APN) and press .

- Enter host (APN) in the format: AT+CGDCONT=<cid>, "<PDP\_type>","APN" (IPP . 33).
  <cid>: Enter any of 5 to 10.
  "<PDP\_type>" : Enter "PPP" or "IP".
  "APN" : Enter the host (APN) enclosed in " ".
- If [OK] appears, the APN is set successfully.
- To check the current host (APN) setting, enter AT+CGDCONT?, and the settings appear in a list.

## When nothing appears on the screen when AT commands are entered

• ATE1 Refer to P. 37 for details on AT commands.

#### When resetting APN settings using AT commands

- AT+CGDCONT= : To reset all the cids
- AT+CGDCONT=<cid>I : To reset only specific cids

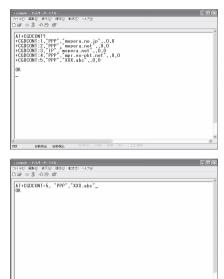
When reset, <cid>=1 returns to "mopera.ne.jp" (default setting), <cid>=2 or 3 returns to "mopera.net" (default setting), <cid>=4 returns to "mpr.ex-pkt.net" (default setting) and settings for <cid>=5 to 10 are unregistered.



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## When confirming APN settings using AT commands

• AT+CGDCONT? Refer to P. 33 for details on AT commands.



## Confirm that [OK] appears and select [ハイパーターミナルの終了] (Exit hyper terminal) from the [ファイル] (File) menu.

- · Hyper terminal ends.
- [セッション×××を保存しますか?] (Save session xxx?) appears. However, there is no need to save.

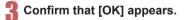
Setting	Send/Not send caller ID	

Handset number (Caller ID) is important personal information. Use caution when setting.

Follow steps 1 to 5 of "Setting host (APN)" on P. 18.

## Set either Send caller ID (186) or Not send caller ID (184) during packet transmission.

- Enter in the format: "AT\*DGPIR=<n>" (IPP. 32).
   AT\*DGPIR=1. :Adds "184" when packet transmission is established with the host (APN).
  - AT\*DGPIR=2 :Adds "186" when packet transmission is established with the host (APN).



-	S =0 29 m² PIR=1_	 	 	
		S NUM NY X		

	第1日 第三の	0 38800 B	速田 へぼう(	R)				
	9 10 0	14						
AT*D	GPIR=1_							
OK	-							
-								
81	自動報出	自動報出	SCROLL	CAPS N	14 N.Y.	10-860		

#### Send/Not send setting on dial-up networks

Adding "186" (Send) and "184" (Not send) to the host number in dial-up networks is also possible.

Setting "186" (Send) and "184" (Not send) in both the \*DGPIR command setting and the dial-up network setting results in the following.

Dial-up network setting (when <cid>=1)</cid>	Using the *DGPIR command Send/ Not send setting	Send/Not send caller ID
*99***1#	Not set (default setting)	Send
	Not send	Not send
	Send	Send
184*99***1#	Not set (default setting)	Not send
	Not send	(dial-up network "184" is given priority)
	Send	
186*99***1#	Not set (default setting)	Send
	Not send	(dial-up network "186" is given priority)
	Send	

- Enter "AT\*DGPIR=0" to return "186" (Send)/"184" (Not send) to [Not set] (default setting).
- Set [Send] for sending caller ID when using mopera U or mopera, the DOCOMO Internet connection service.

### Setting dial-up network

Set the host and TCP/IP protocol. Contact the Internet service provider or network administrator for more information on settings.

#### Hosts

For packet transmission, set the host (APN) in advance. Register numbers (cid) 1 to 10 for the host (APN) in advance, to enable using packet transmission by specifying control numbers. Host (APN) settings are the equivalent to a phonebook for packet transmission on a PC. Compared to normal phonebook entries, they appear as follows.

In phonebook	In Packet transmission setting
Registered number (memory number)	Control numbers (cids) 1 to 10
Other party's name	Host name (host (APN))
Other party's phone number	*99*** <cid>#</cid>

For example, when the mopera host (APN), "mopera.ne.jp", is registered for cid1, connecting to the mopera is possible by specifying the host number "\*99\*\*\*1#". Other registered cids can be used similarly.

\*99\*\*\*1# : Connects to host (APN) registered to cid1. Alternatively, connect with just \*99#.

\*99\*\*\*2# : Connects to host (APN) registered to cid2.

to

\*99\*\*\*10# : Connects to host (APN) registered to cid10.

The default setting for cid1 is "mopera.ne.jp", the APN used to connect to mopera (<PDP\_type> is "PPP"). The default setting for cid2 is "mopera.net", the APN used to connect to mopera U (<PDP\_type> is "PPP"). The default setting for cid3 is "mopera.net", the APN used to connect to mopera U (<PDP\_type> is "IP"). The default setting for cid4 is "mpr.ex-pkt.net", the APN used to connect to mopera U (<PDP\_type> is "PPP"). When connecting to a corporate LAN or Internet service providers other than mopera or mopera U, register the host (APN) using cid5 to 10 (@P P. 19).

For 64K data communication, enter the access point phone number supplied by the Internet service provider or network administrator.

- Contact the Internet service provider or network administrator for more information on settings.
- Access point phone number is "\*8701" for mopera U and "\*9601" for mopera when using 64K data communication.
- When using packet transmission, enter "\*99\*\*\*3#" for mopera U and "\*99\*\*\*1#" for mopera (default setting).

#### Setting a dial-up network on Windows 7 and Windows Vista

On Windows 7, use "ネットワークの接続ウィザード" (Network connection wizard) to set the host (APN).

Example: Using <cid>=3 to connect to mopera U, the DOCOMO Internet connection service on Windows 7

- The screens are different for Windows Vista.
- Subscription to mopera U requires a charge.

## 【 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel). For Windows Vista

1 Click [スタート] (Start) menu ▶ [接続先] (Connect to) and proceed to step 4.

## 🕐 Click [ネットワークとインターネット] (Network and Internet).

## - Click [ネットワークと共有センター] (Network and sharing center).

• The connect to a network screen appears.

## 4 Click [新しい接続またはネットワークのセットアップ] (Set up new connection or network).

• The connect to a network screen appears.

#### For Windows Vista

1 Click [接続またはネットワークをセットアップします] (Set up a connection or network).

## う Click [ダイヤルアップ接続をセットアップします] (Set up a dial-up connection) ▶ [次へ] (Next).

- For Bluetooth connection, select the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)].
- When two or more modems are connected to the PC, [どのモデムを使いますか?] (Which modem do you want to use?) appears. Select [FOMA SH05C].
- The create a dial-up connection screen appears.

## Enter the host number in the [ダイヤル アップの電話番号] (Dial-up phone number) field and a connection name in the [接続名] (Connection name) field, and then click [接続] (Connect).

- To connect to <cid>=3 (mopera U), enter \*\*99\*\*\*3#" in the [ダイヤルアップの電話番号] (Dial-up phone number) field.
- When using mopera U or mopera, [ユーザー名] (User name) and [パスワード] (Password) can be left blank to connect.
- When connecting to the Internet using a provider other than mopera U or mopera, enter the user name and password for the provider in the [ユーザー 名] (User name) and [パスワード] (Password) fields.



## When [(接続名) に接続中] (Connecting to (Connection name)) appears, click [ス キップ] (Skip).

- Only confirming the settings without actually connecting.
- If  $[\mathcal{A} + \mathcal{P}]$  (Skip) is not clicked, the network is connected to the Internet.

#### B Click [閉じる] (Close). For Windows Vista

1 Click [接続をセットアップします] (Set up a connection) and click [閉じる] (Close).

## IJ Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel). For Windows Vista

1 Click [スタート] (Start) menu ▶ [ネットワーク] (Networking).

2 Click [ネットワークと共有センター] (Network and sharing center) ▶ [ネットワーク接続の管理] (Manage network connections) and proceed to step 12.

┃ Click [ネットワークとインターネット] (Network and Internet).

- 【 Click [ネットワークと共有センター] (Network and sharing center) ▶ [アダプター の設定の変更] (Change adapter setting) in [タスク] (Task).
  - The network connections screen appears.

## 12 Select and right-click the icon for host created and select [プロパティ] (Properties).

• Properties screen appears.

## <mark>13</mark> Confirm all the settings in the [全般] (General) tab.

- When two or more modems are connected to the PC
  - For FOMA USB Cable with Charge Function 02: Make sure that [FOMA SH05C] in [接続の方法] (Connection method) shows ☑. When □ appears instead, change to ☑. For modems other than [FOMA SH05C], change ☑ to □.
  - For Bluetooth connection: Make sure that the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)] in [接続の方法] (Connection method) shows ☑. When □ appears instead, change to ☑. For modems other than the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)], change ☑ to □.
- Confirm that [ダイヤル情報を使う] (Use dialing rules) shows □. When ☑ appears instead, change to □.

## 14 Click the [ネットワーク] (Networking) tab and confirm all settings.

 In the [この接続は次の項目を使用します] (Components checked are used by this connection) field, ♥ should appear only for [インターネットプロ トコルバージョン4 (TCP/IPv4)] (Internet protocol version 4 (TCP/IPv4)). Set [QoSパケットスケ ジューラ] (QoS packet scheduler) according to the instructions of the provider.



101	18のプロパティ
È股	オプション セキュリティ ネットワーク 共有
<i>20</i>	)接続は、欠の項目を使用します(①):
	ニーインターネット プロトコル パージョン 6(TCP/IPv6) ニーインターネット プロトコル パージョン 4(TCP/IPv6) 
	<b>ТОХЕ-ЖО.</b> (С. РУЛОДЕ-ЖО) (Д. ДОКТА(В) 888
	ーか CDP/IP version 6 です。多様な内部接続のネットワークを超えて、通信 を提供できる最新のインターネット プロトコルです。
	OK ++v/t/

「Click the [オプション] (Option) tab and click [PPP設定] (PPP setting).

• The PPP setting screen appears.

## I6 Check all options to show □ and click [OK].

• The option setting screen reappears.



## Click [OK].

- The host and TCP/IP protocol are set.
- Refer to P. 26 for details on connecting to dial-up network.

#### Setting a dial-up network on Windows XP

On Windows XP, use "ネットワークの接続ウィザード" (Network connection wizard) to set both the host (APN) and TCP/IP protocol.

Example: Using <cid>=3 to connect to mopera U, the DOCOMO Internet connection service

- Subscription to mopera U requires a charge.
- Click [スタート] (Start) menu ▶ [すべてのプログラム] (All programs) ▶ [アクセサ リ] (Accessories) ▶ [通信] (Communications) ▶ [ネットワーク接続] (Network connections).

• The network connections screen appears.

- 2 Click [新しい接続を作成する] (Create new connection) in [ネットワークタスク] (Network tasks).
  - A new connection wizard screen appears.

### 🖁 Click [次へ] (Next).

- The screen to select network connection type appears.
- Select [インターネットに接続する] (Dial-up to the Internet) and click [次へ] (Next).
- A preparation screen appears.
- Select [接続を手動でセットアップする] (Manually set up Internet connection) and click [次へ] (Next).
  - The Internet connection screen appears.
- 5 Select [ダイヤルアップモデムを使用して接続する] (Connect through phone line and modem) and click [次へ] (Next).
  - A screen to specify the device appears.
- Select [モデムー FOMA SH05C (COMx)] (Modem FOMA SH05C (COMx)) and click [次へ] (Next).
  - A number will replace "x".
  - The connection name screen appears.
  - For Bluetooth connection, select the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)].

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The screen appears only when multiple modems are installed.

#### Enter a connection name in the [ISP名] (ISP name) field and click [次へ] (Next).

- The phone number to dial screen appears.
- The [ISP名] (ISP name) is the name of the Internet service provider.

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itones.	
	キャンセル
	174999 17799

Continued on next page 🕨

Enter the host number in the [電話番号] (Phone number) field and click [次へ] (Next).

- The Internet account information screen appears.
- To connect to <cid>=3 (mopera U), enter "\*99\*\*\*3#".

## Set options as shown in the example screen and click [次へ] (Next).

- The new connection wizard complete screen appears.
- When using mopera U or mopera, [ユーザー名] (User name) and [パスワード] (Password) can be left blank to connect.
- When connecting to the Internet using a provider other than mopera U or mopera, enter the user name and password for the provider in the [ユーザー 名] (User name) and [パスワード] (Password) fields.

しい 接続ウィザード	
ダイヤルする電話番号 ISP の電話番号を指定してください。	Í.
下に電話番号を入力してください。	
電話番号(P):	
*99***3#	
識別番号または市外局番が必要な 号にダイヤルしてください。モデムの音	場合が多ります。よくわからないときは、電話でその電話番 が聞こえる場合はダイヤルしたその番号が正解です。
	(戻る個)(次へ似))(キャンセル
しい接続ウィザード	
インターネット アカウント情報 インターネット アカウンドにサインインするにひ	17777ンド名とバスワードが必要です。
ISP 7内ウント名およびパスワードを入力し のアカウント名まだはパスワードを忘れてし	、この情報を書き留めてから安全な場所に保管してください。GR存 まった場合は、ISP に関い合わせて(ださい。)
2-4-8( <u>U</u> )	
100-FD	
パスワードの確認入力(の)	
「このコンピュータからインターネットに接 するら)	続するときは、だれでもこのアカウント名わよびパスワードを使用

(戻る(日) 次へ(日)) キャンセル

■この接続を既定のインターネット接続とする(M)

## When [新しい接続ウィザードの完了] (New connection wizard completed) appears, click [完了] (Finish).

• The newly created connection wizard appears.

🤈 Confirm the setting information and click [キャンセル] (Cancel).

• Only confirming the settings without actually connecting.

## |} Select the icon for host created and select [プロパティ] (Properties) in the [ファイル] (File) menu.

• Properties screen for the host appears.

## 14 Confirm all the settings in the [全般] (General) tab.

- When two or more modems are connected to the PC
   For FOMA USB Cable with Charge Function 02: Make sure that [FOMA SH05C] in [接続の方法] (Connection method) shows ☑. When □ appears instead, change to ☑. For modems other than [FOMA SH05C], change ☑ to □.
  - For Bluetooth connection: Make sure that the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)] in [接続の方法] (Connection method) shows ☑. When □ appears instead, change to ☑. For modems other than the [(in-use Bluetooth-linked standard modem)] or [(Bluetooth modem provided by a Bluetooth maker)], change ☑ to □.
- Confirm that [ダイヤル情報を使う] (Use dialing rules) shows □. When ☑ appears instead, change to □.



## 5 Click the [ネットワーク] (Networking) tab, confirm all settings and click [設定] (Settings).

- Set [呼び出すダイヤルアップサーバーの種類] (Type of dial-up server to call) to [PPP: Windows95/98/NT4/2000, Internet].
- In the [この接続は次の項目を使用します] (Components checked are used by this connection)) field, ✓ should appear only for [インターネットプロ トコル (TCP/IP)] (Internet protocol (TCP/IP)). Leave [QoS パケットスケジューラ] (QoS packet scheduler) settings as is. No changes are necessary.
- The PPP setting screen appears.
- For TCP/IP settings used for connecting to an Internet service provider, confirm with the Internet service provider or network administrator.

## 

• Properties screen of the host reappears.

∿ fomaØ	フロパティ			?	×
全般才	ブション セキュ!	リティ ネットワーク	詳細設定		
		ーバーの種類( <u>E</u> ):			
PPP: W	indows 95/98/N	1T4/2000, Intern	∍t	×	
				[]]	
この接続	は次の項目を使	用します(0):			
		トコル(TCP/IP)			
	DoS パケット スケ dicrosoft ネット「	ジューラ フーク用ファイルとブ	小肉共有		
		フーク用クライアント			
15	λト−ル( <u>N</u> )]	「アンインストー		プロパティ( <u>R</u> )	
伝送	制御プロトコル/1	ンターネット ブロト E提供する、既定の	コル。相互接	続されたさまざまな ネットワーク プロト	
JVE -	'व.	LINETA 7 GA PARAEN	//// I///		
			ОК	キャンセル	ור
			-		_

PPP 設定		?×
LCP 拡張を使う(E)		
Uフトウェアによる圧縮を行う(N	)	
□ 単一リンク接続に対してマルチ	リンクをネゴシエート	·する( <u>M</u> )
	ОК	キャンセル

## || Click [OK] on the [プロパティ] (Properties) screen.

- The host and TCP/IP protocol are set.
- Refer to P. 26 for details on connecting to dial-up network.

## Connecting to dial-up network

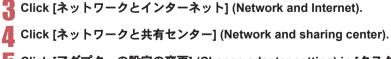
Example: Connecting to the dial-up network via FOMA USB Cable with Charge Function 02 on Windows 7 • The screens are different for Windows Vista and Windows XP.

## Connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02.

## 2 Click [スタート] (Start) menu ▶ [コントロールパネル] (Control panel). For Windows Vista

1 Click [スタート] (Start) menu ▶ [接続先] (Connect to) and proceed to step 6. For Windows XP

1 Click [スタート] (Start) menu ▶ [すべてのプログラム] (All programs) ▶ [アクセサリ] (Accessories) ▶ [通信] (Communications) ▶ [ネットワーク接続] (Network connections) and proceed to step 6.



## Click [アダプターの設定の変更] (Change adapter setting) in [タスク] (Task).

• The dial-up network screen appears.

## Double-click the connection icon.

- The connection screen appears.
- Alternatively, select the host icon and then select [接続] (Connect) in the [ファイル] (File) menu to display the connection screen.



## Confirm the settings and click [ダイヤル] (Dial-up).

- The FOMA is connected to the host.
- The phone number set in "Setting dial-up network" (GPP. 21) appears in the (ダイヤル) (Dial-up) field.
- When using mopera U or mopera, [ユーザー名] (User name) and [パスワード] (Password) can be left blank to connect.

・foma へ接続			
ユーザー名(U): パスワード( <u>P</u> ):			
C	が接続するとき使用するために、このユーザー名とパスワード チーのみ(払) コーターを使うすべてのユーザー( <u>A</u> )		
ダイヤル(D:	*99***3# 🗸		
ダイヤル( <u>D</u> )	) キャンセル プロパティ(O) ヘルプ(H)		

#### Disconnecting

Simply closing the browser may not disconnect the connection. Follow the steps below to properly disconnect.

### Click [ᡍ] in the task tray ▶ an item to disconnect, and click [切断] (Disconnect).

• The connection is disconnected.

#### For Windows Vista

1 Click [[]] in the task tray > [接続または切断...] (Connect or disconnect), and double-click the disconnection icon.

#### For Windows XP

1 Click [I] in the task tray and click [切断] (Disconnect).

## Sending and receiving data (OBEX<sup>™</sup> communication)

### Sending/Receiving FOMA terminal data to/from a PC

- The FOMA terminal has OBEX<sup>™</sup> function as a data communication protocol. Connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02 (sold separately), and the data communication (data communication with OBEX<sup>™</sup> communication) enables sending and receiving phonebook, owner information from the own number screen, schedule, sent mail (including SMS), received mail (including SMS), unsent mail (including SMS), Area mail, memos, melodies, My picture, i-motion, My Documents, bookmark, ToruCa, Decome-Anime Template, location service client data, and setting information.
- Use the following three types of data communication with the FOMA terminal.
  - Send data one item at a time from a PC to a FOMA terminal (Write 1)
  - Send data in bulk from a PC to a FOMA terminal (Write all)
  - Send data in bulk from a FOMA terminal to a PC (Read all)
- During data communication, the handset will be outside the service area, and functions such as voice/ videophone call, i-mode, i-mode mail, or packet transmission will not be available.
- Even after completion of data communication, [圖外] (outside the service area) may be displayed for a short time.
- Make sure the FOMA terminal is properly connected to the PC. If not connected properly, sending and receiving data
  may not be possible, or data may be lost.
- Check whether there is enough remaining battery power of the FOMA terminal. If data communication is performed when the battery level is low or empty, sending and receiving data may not be possible, or data may be lost.
- Check the PC power supply as well. If not turned on, sending and receiving data may not be possible, or data may be lost.
- Perform data communication with the FOMA terminal in stand-by. When movie/i-motion is set as the stand-by display, stop movie/i-motion playback before performing data communication.
- During communication (voice/videophone call and data communication), data cannot be sent or received. Also, when
  sending and receiving data, other data communication cannot be performed. However, receiving a call, right after
  data communication has begun, may be possible. In such cases, the sending or receiving of data is canceled.
- UIM phonebook data cannot be sent.
- Mail with i-αppli start up designations can be sent after attached data has been deleted.
- Mail attachment data exceeding 100 KB (including the message text) are deleted and only message is sent.
- Data such as phonebook entries cannot be sent or received while All lock or Personal data lock is set.
- Phonebook data cannot be sent or received when Keypad dial lock is set.
- Depending on data size, data communication may take some time. In addition, the FOMA terminal may not be able to receive data due to data size.
- When receiving phonebook data, data will be added from memory number [0010] for single entry, or in accordance with memory number information when receiving all entries.
- When receiving all phonebook entries, Profile (excluding first phone number) registered in Own number will be overwritten.
- Phonebook entries are sent in memory number order.
- When sending all phonebook entries, Profile from own number screen is also sent.
- PDF files which exceed 2 MB cannot be sent.
- Alternatively, send and receive data (OBEX) with the following methods.
- Ir communication iC communication microSD Card Bluetooth communication

#### ■ Devices required for data communication (OBEX<sup>™</sup> communication)

- To perform data communication, downloading data transfer software complied with OBEX<sup>™</sup> standard from the Internet, and installing this software to your PC is necessary. Refer to the software manual for information on operating environment and installation methods. In addition, installation of the FOMA communication configuration file (127 P. 6 to P. 8) is necessary beforehand.
- A FOMA USB Cable with Charge Function 02 is required to connect the FOMA terminal to a PC.
- The FOMA terminal data communication (OBEX<sup>™</sup> communication) function complies with IrMC<sup>™</sup> 1.1 standard. However, depending on the application, some data may not be sent or received even when the other party's terminal complies with IrMC<sup>™</sup> 1.1 standard.

## Sending single data item (Write 1)

- Send data from a PC to a FOMA terminal one item at a time.
- Sending one item at a time from a FOMA terminal to a PC is not possible.
- Data transfer operating methods differ depending on the software used. Refer to the software manual for details.

### Send data from a PC using data transfer software (Write 1).

- Refer to the software manual for details on sending data.
- When phonebook data is sent (from a PC to the FOMA terminal) one entry at a time, entries are saved to the smallest
  available memory number from [0010] to [1999]. If all memory numbers from [0010] to [1999] are already used,
  entries are saved to the smallest available memory number between [0000] and [0009].
- When phonebook data is received and 2,000 entries (names, phone numbers, or mail addresses) are already registered, or more than 2,000 entries have been registered, a message appears notifying that no further entries can be saved.

## Sending all data (Write all/Read all)

- Write and read all data at once, between a PC and the FOMA terminal.
- "Write all" and "Read all" operations require data transfer software and your FOMA terminal authentication password.
- Data transfer operating methods differ depending on the software used. Refer to the software manual for details.

### Send data from a PC using data transfer software (Forward all).

- Refer to the software manual for details on sending data.
- Entering your authentication password on the PC will be necessary.
- Enter your authentication password (four digits).

## 2 Enter the terminal security code (four to eight digits) and the authentication password (four digits).

## R Start data transmission.

- Performing Write all from a PC to your FOMA terminal replaces all data stored in the FOMA terminal. All data
  previously stored in your FOMA terminal will be deleted. This includes phonebook, schedule, and protected mail data
  saved as secret data. However, for an image, i-motion, Melody, PDF, or Decome-Anime Template in the Data box,
  original data is not deleted but saved additionally.
- If an error occurs during data transmission from a PC to the FOMA terminal, all data stored in the FOMA terminal may be deleted. Check the cable connection, the FOMA terminal battery level, and the PC power supply before performing Write all.
- Depending on the connected device, the transmission status (bar display) may not appear.

## List of AT command

## AT commands

AT commands are commands used to set the FOMA terminal functions from a PC. When AT commands are entered from a PC, the FOMA terminal performs the corresponding operations.

### AT command input format

AT commands must always start with "AT". Enter in single-byte alphanumeric characters.

#### Input example

ATD\*99\*\*\*1#

Return symbol: Entered by pressing the Enter key. Used to separate commands.

Parameter: The command argument

Command: The command name

Each AT command including parameter (number or symbol) following the command must be entered on a single line. A single line means the characters from the first character until the character directly before the 🗐 is pressed. Up to 160 characters (including "AT") can be entered.

#### AT command input modes

To operate the FOMA terminal using AT commands, set the PC to terminal mode. In terminal mode, the characters entered from the keyboard are sent directly to the communication port to operate the FOMA terminal.

Offline mode

The FOMA terminal is in stand-by. Normally, this mode is used to operate the FOMA terminal using AT commands.

Online data mode

The FOMA terminal is connected and performing data communication. When an AT command is entered in this mode, the characters are sent directly to the receiver, and may cause the receiver's modem to malfunction. Do not enter AT commands in this mode.

Online command mode

Even when the FOMA terminal is connected and performing communication, with special operations, operation by AT commands is possible. When in this mode, AT commands are executed while remaining connected to the receiver, and communications can be resumed after the operation is completed.

- When a call/transmission is made from an external device with 64K data communication, Number A is used when 2in1 mode is set to [A mode]/[Dual mode]. Number B is used when 2in1 mode is set to [B mode]. However, if Redial is performed with the AT command when [Dual mode] is set, Redial is performed with the last dialed number.
- Terminal mode enables a single PC to operate like a communication terminal. Characters entered from the keyboard are sent to the device or line connected to the communication port.

#### Switching between online data mode and online command mode

Use either of the following methods to switch the FOMA terminal from online data mode to online command mode.

- Enter "+++" command, or enter the set code in the "S2" register.
- Turn the RS-232C\* ER signal OFF when set to "AT&D1".
- To switch from online command mode to online data mode, enter "ATO]".
- \* USB interface emulates an RS-232C signal line, enabling RS-232C signal line control by the communication application.

## List of AT command

## [M]: AT commands that can be used with the FOMA SH05C Modem Port.

AT command	Overview	Parameter/Explanation	Execution example
AT [M]	_	The modem function of the FOMA terminal can be controlled by adding commands in the list to the end of this command. ※ Returns OK if only AT is entered.	AT. OK
AT%V	Displays FOMA terminal version.*2	_	AT%V Ver1.00
[M]			OK
AT&C <n></n>	Sets operating condition for circuit CD (DCD) signals sent to DTE.*1	n=0: Circuit CD always ON n=1: Circuit CD signal changes according to line connection status (default setting) When "&C1" is set, the CD signal is turned "ON" directly before the CONNECT signal is sent when connection is completed. The CD signal is turned "OFF" right before "NO CARRIER" is sent when the circuit is disconnected.	AT&C1 OK
[M]	Sets the operation when the circuit ER (DTR) signal received from DTE changes from "ON" to "OFF" during online data mode.*1	n=0: Ignores status (always considers signal ON) n=1: Sets online command mode when signal changes from ON to OFF n=2: Disconnects line and activates offline mode when signal changes from ON to OFF (default setting)	AT&D1. OK
AT&E <n> [M]</n>	Selects speed display specifications when connecting.*1	n=0 : Wireless area transmission speed appears n=1 : DTE serial transmission speed appears (default setting)	AT&E0.
AT&F <n></n>	Resets the FOMA terminal's AT command settings to their default settings. If this command is entered during communication, the settings are reset after disconnected." <sup>2</sup>	Can only be set as n=0 (can be omitted)	AT&F. OK
AT&S <n></n>	Controls when the signal of data	n=0:Always ON (default setting)	AT&S0
[M]	set ready (DR) is set to DTE.*1	n=1:DR signal ON when line is connected	OK
AT&W <n> [M]</n>	Stores the current settings in the FOMA terminal's memory.*2, 5	Can only be set as n=0 (can be omitted)	AT&W 🖵 OK
AT*DANTE	Displays the reception status of the FOMA terminal. <sup>12</sup>	The result from this command is in the following format. *DANTE: <m> <m> 0 : Status where outside the service area appears on the FOMA terminal</m></m>	AT*DANTE. *DANTE:3 OK
[M]		<ol> <li>Status where zero or one antenna appears on the FOMA terminal</li> <li>Status where two antennas appears on the FOMA terminal</li> <li>Status where three antennas appears on the FOMA terminal</li> </ol>	
AT*DGANSM= <n></n>	Sets Accept/Reject call modes for incoming packet communications. This setting is only valid for incoming packet communications after entering setup commands.*2	n=0:Sets Reject call and Accept call settings to [OFF] (default setting) n=1:Sets Reject call settings to [ON] n=2:Sets Accept call settings to [ON]	AT*DGANSM=0 OK AT*DGANSM? *DGANSM:0
[M]			OK

Continued on next page 🕨

AT command	Overview	Parameter/Explanation	Execution example
AT*DGAPL= <n> [.<cid>]</cid></n>	Sets host (APN) to accept transmissions for incoming packet communications. APN settings use <cid> parameter defined by "+CGDCONT".*2</cid>	Adds or deletes from Accept calls list with <n> parameter. If <cid> parameter is abbreviated, adds (<n>=0) or deletes (<n>=1) all of <cid> to or from list. Adds (deletes) <cid> not defined with "+CGDCONT" to (from) list with this command. n=0: Adds to list (Adds APN defined by <cid> to Accept calls list) n=1: Deletes from list (Deletes APN defined by <cid> from Accept calls list)</cid></cid></cid></cid></n></n></cid></n>	AT*DGAPL=0,1 OK AT*DGAPL? *DGAPL:1 OK
AT*DGARL= <n> [,<cid>]</cid></n>	Sets host (APN) to reject transmissions for incoming packet communications. APN settings use <cid> parameter defined by "+CGDCONT"."2</cid>	Adds or deletes from Reject calls list with <n> parameter. If <cid> parameter is abbreviated, adds (<n>=0) or deletes (<n>=1) all of <cid> or from list. Adds (deletes) <cid> not defined with "+CGDCONT" to (from) list with this command. n=0: Adds to list (Adds APN defined by <cid> to Reject calls list) n=1: Deletes from list (Deletes APN defined by <cid> from Reject calls list)</cid></cid></cid></cid></n></n></cid></n>	AT*DGARL=0,1 OK AT*DGARL? *DGARL:1 OK
AT*DRPW	Displays the reception power sent from FOMA terminal.*2	The result from this command is in the following format. *DRPW: <m></m>	AT*DRPW *DRPW:0
[M]		m: 0 to 75 (reception power)	
AT*DGPIR= <n></n>	Setting this command is valid when establishing communication. Enables adding 186 (send caller ID) and 184 (not send caller ID) to host number. Also available in dial-up network settings.*2	n=0: When establishing packet transmission, connects to host (APN) directly (default setting) n=1: When establishing packet transmission, adds 184 and connects to host (APN) n=2: When establishing packet transmission, adds 186 and connects to host (APN) When 186 (send caller ID)/184 (not send caller ID) are set by this command and in the dial-up network settings, refer to "Send/Not send setting on dial-up networks" on P. 21.	AT*DGPIR=0 OK AT*DGPIR? *DGPIR:0 OK
+++	Switches the FOMA terminal mode from online data mode to online command mode. Escape guard interval is fixed at 1 second <sup>12</sup>	_	(During communication) +++ (Does not appear) OK
AT+CACM=[ <p asswd&gt;]</p 	Resets the total accumulated cost recorded on the UIM.*2	Resets the total accumulated cost recorded on the UIM, if the password matches. <passwd>: SIM PIN2 % Encloses this string parameter with</passwd>	AT+CACM="0123"
[M] AT+CAOC=[ <m ode&gt;]</m 	Inquires the current accumulated cost.*2	quotation marks ("") when entering. <mode> 0 : Inquires the cost of current call The result from this command is in the</mode>	AT+CAOC +CAOC:"00001E" OK
[M]		following format. +CAOC:" <ccm>"</ccm>	

AT command	Overview	Parameter/Explanation	Execution example
AT+CBC	Inquires the battery status.*2	The result from this command is in the following format.	AT+CBC +CBC:0,80
		+CBC: <bcs>,<bcl></bcl></bcs>	ок
		<ul> <li>0 : The battery operates the FOMA terminal</li> <li>1 : Charging the battery</li> <li>2 : The battery is unconnected</li> <li>3 : Reducing the power</li> </ul>	
[M]		<bcl><bcl> to 100 (remaining battery power)</bcl></bcl>	
AT+CBST=[ <sp eed&gt;[,<name>[, <ce>]]]</ce></name></sp 	Sets the bearer service when establishing transmission. This setting is only valid when AT+FCLASS= <n> command (127 P. 36) = 0.*1</n>	<speed> 116:64K data communication (default setting) <name> 1 : Fixed value</name></speed>	AT+CBST=116,1,0 OK
[M]		<ce> 0 : Fixed value</ce>	
AT+CEER	Displays disconnection reason for preceding communication session.*2	Refer to "Reasons for disconnection" (GP. 40).	AT+CEER +CEER:36
[M]			ОК
AT+CGDCONT	Sets host (APN) accessed when establishing packet transmission.*2	Refer to "More on AT commands" (BP P. 40).	Refer to "More on AT commands" (I P. 40).
AT+CGEQMIN	Registers criterion determining whether to permit QoS (Quality of Service) sent from network when establishing packet transmission.*2	Refer to "More on AT commands" (1287 P. 41).	Refer to "More on AT commands" (IBP P. 41).
AT+CGEQREQ	Sets QoS (Quality of Service) requested of network during packet transmission.*2	Refer to "More on AT commands" (1 P. 42).	Refer to "More on AT commands" (I P. 42).
AT+CGMR	Displays FOMA terminal version.*2	_	AT+CGMR 12345678901234 56
[M]			ок
AT+CGREG= <n></n>	Sets whether to send network registration status. Service area information (inside/outside) is sent.*1	<n> 0 : Does not set (default setting) 1 : Sets When AT+CGREG=1 is set, information is sent in the format "+CGREG:<stat>". 0, 1, 4 or 5 can be set for the <stat></stat></stat></n>	AT+CGREG=1. OK (Set to send) AT+CGREG?. +CGREG:1,0
[] 41		parameter. <stat> 0 : Outside area 1 : Inside area (home) 4 : Unknown 5 : Inside area (visitor)</stat>	OK (Indicates outside area) +CGREG:1 (Moved from outside area to inside area)
[M] AT+CGSN	Displays the FOMA terminal's serial number.*2	_	AT+CGSN 12345678901234 5
[M]			ок

AT command	Overview	Parameter/Explanation	Execution example
AT+CLIP= <n></n>	Shows PC calling number when receiving 64K data communication.*1	<pre><n> 0 : Does not output results (default setting) 1 : Outputs results Displays +CLIP:<n>,<m> for "AT+CLIP?". <m> 0 : NW setting to not send own number during transmissions 1 : NW setting to send own number during transmissions</m></m></n></n></pre>	AT+CLIP=0 OK AT+CLIP? +CLIP:0,1 OK
[M] AT+CLIR= <n></n>	Sets whether to send terminal's phone number when establishing 64K data communication.*2	2 : Unknown <n> 0 : Follows the service agreement 1 : Does not send 2 : Sends (default setting) Displays +CLIR:<n>,<m> for AT+CLIR?. <m></m></m></n></n>	AT+CLIR=0 OK AT+CLIR? +CLIR:2,3
[M]		<ul> <li>3: CLIR is not running (always send)</li> <li>1: CLIR is always running (never send)</li> <li>2: Unknown</li> <li>3: CLIR temporary mode (default setting is Do not send)</li> <li>4: CLIR temporary mode (default setting is Send)</li> </ul>	ок
AT+CDIP= <n></n>	Sets whether to send an incoming sub-address. Also, check the status of Multi Number subscription.	<pre><n> 0 :Does not display sub-addresses (default setting) 1 :Displays sub-addresses <m> 0 :Multi Number is not subscribed 1 : Subscribing Multi Number</m></n></pre>	AT+CDIP=0 OK AT+CDIP? +CDIP:0,1 OK
[M] AT+CMEE= <n></n>	Sets the manner to display FOMA terminal error reports.*1	<ul> <li>2 : Unknown</li> <li>Sets whether to display errors only as</li> <li>"ERROR", or to display reason with text or numerical value.</li> <li> (and the end of the end of</li></ul>	AT+CMEE=0 OK AT+CNUM ERROR AT+CMEE=1 OK AT+CNUM +CME ERROR:10
[M] AT+CNUM [M]	Displays FOMA terminal phone number.*2	Error reports (Lar P. 40). number : Phone number type : 129 or 145 129 : Does not include + international access code 145 : Includes + international access code	AT+CNUM +CNUM:,"+8190 12345678",145 OK

AT command	Overview	Parameter/Explanation	Execution example
	Selects a telecommunications carrier to be connected.*2	<mode> 0 : Auto (Automatically searches network and switch telecommunications carriers) 1 : Manual (Connects to the telecommunications carrier specified in <oper> 2 : Cancels (disconnects) the connection to the telecommunications carrier ※ Unsupported. 3 : Does not make mapping 4 : Manual auto (Performs "Auto" processing if not connected to the telecommunications carrier specified in <oper> ※ Unsupported. <format></format></oper></oper></mode>	AT+COPS =1,2,"44F001" OK (Connects to MCC:440MNC:10)
[M]		2 : Fixed value <oper> is indicated by a hexadecimal number consisting of a country code (MCC) and a network code (MNC). The formats are shown below. Digit 1 of MCCoctet 1 bits 1 to 4. Digit 2 of MCCoctet 1 bits 5 to 8. Digit 3 of MCCoctet 2 bits 1 to 4. Digit 3 of MNCoctet 3 bits 5 to 8. Digit 2 of MNCoctet 3 bits 5 to 8. Digit 1 of MNCoctet 3 bits 1 to 4.</oper>	
AT+CPAS	Inquires the activity status of the FOMA terminal.*2	The result from this command is in the following format. +CPAS: <pas> <pas> 0 :AT commands can be sent/received 1 :AT commands cannot be sent/received (does not send the +CPAS:1 result)</pas></pas>	AT+CPAS +CPAS:0 OK
[M] AT+CPIN= <pin &gt;[,<newpin>]</newpin></pin 	Enters the UIM password (PIN1, PIN2).*2	<ul> <li>2 : Unknown</li> <li>3 : AT commands can be sent/received and the FOMA terminal is receiving a call</li> <li>4 : AT commands can be sent/received and performing data communication</li> <li><pin></pin></li> <li>Enters PIN1 while waiting for PIN1 input (Enter <pin> parameter only)</pin></li> <li>Enters PIN2 while waiting for PIN2 input (Enter <pin> parameter only)</pin></li> <li>Enters PUK1 while waiting for PUK1 input</li> <li>Enters PUK2 while waiting for PUK1 input</li> <li>Enters PUK2 while waiting for PUK2 input</li> <li>※ Encloses this string parameter with</li> </ul>	AT+CPIN? + +CPIN:SIM PIN1 OK (Indicates waiting status for PIN1 input) AT+CPIN="1234"
[M]		quotation marks (" ") when entering. <newpin> Enters a new PIN1 while waiting for PUK1 input Enters a new PIN2 while waiting for PUK2 input % Encloses this string parameter with quotation marks (" ") when entering.</newpin>	CK AT+CPIN? +CPIN:SIM PUK1 OK (Indicates waiting status for PUK1 input) AT+CPIN="12345 678", "1234" OK

AT command	Overview	Parameter/Explanation	Execution example
AT+CR= <mode></mode>	Sets whether to display packet transmission/64K data communication before "CONNECT" result code is displayed during line connection. <sup>1</sup>	<mode> 0 : Does not display when line is connected (default setting) 1 : Displays when line is connected</mode>	AT+CR=1 OK ATD*99***1# +CR:GPRS CONNECT
[M]	"GPRS" is displayed for packet transmission, and "SYNC" is displayed for 64K data communication.		
AT+CRC= <n></n>	Sets to use extended results code at reception.*1	n=0:Does not use extended results code (default setting) n=1:Uses extended result codes	AT+CRC=0₽ OK
AT+CREG= <n></n>	Sets service area information on or off.*1	When AT+CREG=1 is set, information is set in the format "+CREG: <stat>". 0, 1, 4 or 5 can be set for the <stat> parameter. <n> 0 : Does not send (default setting) 1 : Sends <stat> 0 : Outside area 1 : Inside area (home) 4 : Unknown 5 : Inside area (visitor)</stat></n></stat></stat>	AT+CREG=1 OK (Set to send) AT+CREG? +CREG:1,0 OK (Indicates outside area) +CREG:1 (Moved from outside area to
[M]			inside area)
AT+CUSD=[ <n &gt;[.<str>[.<dcs>] ]]</dcs></str></n 	Changes setting toward net for optional services, etc."1	<pre><n> 0 : Answers without intermediate result (default setting) 1 : Answers with intermediate result <str> Service code % Refer to "Mobile Phone User's Guide [Network Services]". <dcs> 0 : Fixed value</dcs></str></n></pre>	AT+CUSD=0,"xxx xxx" OK
AT+FCLASS=<	Sets the mode.*1	<	AT+FCLASS=0
n> [M]		0 :Data (fixed value)	ок
AT+GCAP	Displays the ability list of the FOMA terminal.* <sup>2</sup>	-	AT+GCAP +GCAP:+CGSM, +FCLASS,+W
[M]			ок
AT+GMI	Displays FOMA terminal maker name in single-byte alphanumeric characters.*2	-	AT+GMI
[M] AT+GMM	Diaplaya abbraviated EOMA		OK AT+GMM
	Displays abbreviated FOMA terminal product name (FOMA SH05C) in alphanumeric	_	FOMA SH05C
[M]	characters.*2		OK
AT+GMR	Displays FOMA terminal version.*2		AT+GMR Ver1.00
[M]			ок

AT command	Overview	Parameter/Explanation	Execution example
AT+IFC= <n,m></n,m>	Sets local flow control format between the PC and FOMA terminal.*1	DCE by DTE ( <n>) 0 : No flow control 1 : XON/XOFF flow control 2 : RS/CS (RTS/CTS) flow control (default setting) DTE by DCE (<m>) 0 : No flow control 1 : XON/XOFF flow control 2 : RS/CS (RTS/CTS) flow control (default setting)</m></n>	AT+IFC=2,2
AT+WS46?	Displays wireless network used to call. Incoming signals are not affected. <sup>*2</sup>	n=22 : FOMA network (fixed value)	AT+WS46? 🗐 22
[M]			OK
A/ [M]	Performs the preceding executed command.*2	_	A/ OK
ATA	Performs incoming process for packet or 64K data if entered when receiving the data.*2	Enter "ATA184." (arrival call action for anonymous call) or "ATA186." (arrival call action for identified call) while receiving packets.	RING ATA CONNECT
[ <u>M]</u>	Establishes communication. <sup>*2, 3</sup>	<ul> <li>Packet transmission ATD*99***<cid>#</cid></li> <li>Packet transmission ATD*99**<cid>#</cid></li> <li>When ATD*99# is entered:</li> <li>Uses <cid>=1 (default setting) (When</cid></li> <li><cid>=1 (default setting) (When</cid></li> <li><ci><cid>=1 (default setting) (When</cid></ci></li> <li><cid>=1 (default setting) (When</cid></li> <li><ci><cid>=1 (default setting) (When</cid></ci></li> <li><cid>=1 (default setting) (When</cid></li> <li><cid>=1 (d</cid></li></ul>	ATD*99***1#
ATE <n></n>	Sets whether the FOMA terminal returns echo of AT commands sent from the PC.*1	n=0:Does not return echo n=1:Returns echo (default setting) Normally, set to n=1. If the PC has an echo function, set to n=0.	ATE1 OK
[M]	Disconnects line when entered during packet transmission or 64K data communication.*2		(During communication) +++ (Does not appear) OK ATH NO CARRIER
ATI <n></n>	Displays the verification code.*2	n=0:NTT DoCoMo n=1: Displays abbreviated product name (FOMA SH05C) n=2: Displays the product version in a format such as "VerX.XX" n=3: Displays each element of ACMP signals n=4: Displays details of the communication functions provided in the FOMA terminal	ATIO

AT command	Overview	Parameter/Explanation	Execution example
ATO [M]	Returns to online data mode from online command mode during communication.*2	_	ATO CONNECT
ATQ <n> [M]</n>	Sets whether to display result codes.*1	n=0:Displays result codes (default setting) n=1:Does not display result codes	ATQ0 OK
ATV <n></n>	Sets manner of displaying result codes.*1	Displays all result codes with numbers or text. n=0: Displays result codes with numbers n=1: Displays result codes with text (default	ATV1 OK
[M] ATX <n></n>	Sets whether to include speed in the CONNECT display when connecting. Also detects busy tone or dial tone.*1	setting) Busy tone detection: Sends BUSY response when number dialed is busy. Dial tone detection: Determines whether FOMA terminal is connected. Speed display: Sets whether to include speed in the CONNECT display when connecting. n=0 : No busy tone detection, no dial tone detection, no speed display n=1 : No busy tone detection, no dial tone detection, speed display n=2 : No busy tone detection, dial tone detection, speed display n=3: Busy tone detection, no dial tone detection, speed display n=4 : Busy tone detection, dial tone detection, speed display (default setting)	ATX1.
ATZ <n></n>	Resets the FOMA terminal's AT command settings.*2, 4	Resets the FOMA terminal's AT command settings to the values set in non-volatile memory. If this command is entered during communication, the settings are reset after disconnected. Can only be set as n=0 (can be omitted)	(When online) ATZ NO CARRIER (When offline) ATZ OK
ATS0= <n></n>	Sets number of rings before FOMA terminal automatically receives.*1	n=0:No automatic receiving (default setting) n=1 to 255: Automatically receives after sets number of rings	ATS0=0
ATS2= <n></n>	Sets the escape character.	n=0 to 127 (default setting: n=43) When n=127 is set, escape is disabled.	ATS2=43 OK ATS2? 043
[M] ATS3= <n></n>	Sets the carriage return (CR) character.	Defines the character used to recognize the end of an AT command character string. Appended to the end of the echoed command character string and result code. The settings cannot be changed (default setting: n=13).	OK ATS3=13. OK ATS3?. 013
[M] ATS4= <n></n>	Sets the line feed (LF) character.	Appended after the CR character, when result codes are displayed as text. The settings cannot be changed (default setting: n=10).	OK ATS4=10 OK ATS4? 010 OK

AT command	Overview	Parameter/Explanation	Execution example
ATS5= <n></n>	Sets the backspace (BS) character.	When detected while entering an AT command, the last character in the input buffer is deleted. The settings cannot be changed (default setting: n=8).	ATS5=8 OK ATS5? 008
[M]			ок
ATS6= <n> [M]</n>	Sets pause time (seconds) until dialing.	Sets a register, but has no other effect. n :2 to 10 (default setting: n=5)	ATS6=10
ATS8= <n></n>	Sets pause time (seconds) until comma dialing.	Sets a register but does not affect the pause time (3 seconds). n=0: Does not pause n :1 to 255 (default setting: n=3)	ATS8=3₽ OK
ATS10= <n></n>	Sets the delay time (seconds) for automatic disconnection (1/10 seconds).*1	Sets a register, but has no other effect. n : 1 to 255 (default setting: n=1)	ATS10=1
ATS30= <n></n>	Disconnects when no data is sent/ received for at least this amount of time.	Only valid during 64K data communication. <n> is set in minutes. n :0 to 255 (default setting: n=0) n=0 sets inactive timer off.</n>	ATS30=3 OK
ATS103= <n></n>	Sets delimiter used when adding an incoming sub-address to number dialed.	Only valid during 64K data communication. n=0 : ∗Asterisk n=1 : /Slash (default setting) n=2 : ¥Yen mark or backslash	ATS103=0₽ OK
ATS104= <n></n>	Sets delimiter used when adding an outgoing sub-address to number dialed.	Only valid during 64K data communication. n=0:#Pound sign n=1:%Percent symbol (default setting) n=2:&Ampersand	ATS104=0 OK
AT¥S	Displays current command and S register settings.*2		AT¥S E1 Q0 V1 X4 &C1 &D2 &S0 &E1 ¥V0 S000=000 S002=043 S003=013 S004=010 S005=008 S006=005 S007=060 S008=003 S010=001 S030=000 S103=001 S104=001 OK
AT¥V <n></n>	Selects response code type used during connection.*1	Only valid when the ATX <n> command (ITP. 38) setting is not n=0. n=0: Does not use extended result codes (default setting)</n>	AT¥V1↓ OK
[M]		n=1: Uses extended result codes	

\*1 Stored in FOMA terminal's memory using AT&W commands.

\*2 Not stored in FOMA terminal's memory using AT&W commands. Not reset with AT&F or ATZ commands.

\*3 Perform Redial with ATDN = or ATDL =.

\*4 If the ATZ command is executed before the AT&W command is used, terminal settings return to last written memory, and prior changes are erased.

\*5 Settings written into the FOMA terminal's memory using the AT&W command is stored as non-volatile data when power is turned off.

## **Reasons for disconnection**

#### Packet transmission

Value	Reason
27	Host (APN) does not exist, or was incorrect.
30	Disconnected by network.
33	No packet transmission subscription.
36	Disconnected properly.

#### 64K data communication

Value	Reason	
1	Specified number does not exist.	
16	Disconnected properly.	
17	Line busy.	
18	Number was dialed, but no response received within specified time.	
19	Dialed number is making a call.	
21	Dialed number refused incoming call.	
63	Network service or option is not valid.	
65	Transmission capacity not provided was specified.	
88	Dialed number of terminal with different terminal attribute, or call was received.	

## Error reports

Numerical display	Text display	Reason
10	SIM not inserted	UIM not inserted.
15	SIM wrong	A non-DOCOMO SIM (IC card equivalent to UIM) is inserted.
16	incorrect password	Password is incorrect.
100	unknown	Unknown error occurred.

## More on AT commands

#### Command name: +CGDCONT= [parameter]

#### Overview

Sets host (APN) accessed when establishing packet transmission. Not stored in FOMA terminal's memory with AT&W commands. Not reset with AT&F or ATZ commands.

#### **Syntax**

+CGDCONT=[<cid>[,"<PDP\_type>"[,"<APN>"]]]

## **Parameter description**

<cid>*</cid>	: 1 to 10
<pdp_type>*</pdp_type>	: PPP or IP
<apn>*</apn>	: Optional

<cid> is a number for managing hosts (APNs) used for packet transmission, registered in the FOMA terminal. It can be set between 1 and 10 in the FOMA terminal. The default settings are "mopera.ne.jp" for <cid>=1 (<PDP\_type> is "PPP"), "mopera.net" for <cid>=2 (<PDP\_type> is "PPP"), "mopera.net" for <cid>=3 (<PDP\_type> is "PPP"). Set cid in 5 to 10. <APN> is a user-specified character string for each connection, indicating the host.

#### **Execution example**

Command when registering host (APN) name "abc" (for <cid>=2) AT+CGDCONT=2, "PPP", "abc" ↓ OK

#### Operation when parameter is abbreviated

AT+CGDCONT= Clears all <cid> settings. Resets <cid>=1 to 4 setting to default value. AT+CGDCONT=<cid> Clears specified <cid> setting. Resets <cid>=1 to 4 setting to default value. AT+CGDCONT=? Displays list of values that can be set. AT+CGDCONT? Displays current settings.

## Command name: +CGEQMIN=[parameter]

#### Overview

Registers criterion determining whether to permit QoS (Quality of Service) sent from the network when establishing PPP packet transmission.

Not stored in FOMA terminal's memory with AT&W commands. Not reset with AT&F or ATZ commands.

#### **Syntax**

AT+CGEQMIN=[<cid> [,, <Maximum bitrate UL> [, <Maximum bitrate DL>[,,,,<Maximum SDU size>]]]].

#### **Parameter description**

<cid>*</cid>	: 1 to 10	
<maximum bitrate="" ul="">*</maximum>	: None (initial setting) or 5760	
<maximum bitrate="" dl="">*</maximum>	: None (initial setting) or 7232	
<maximum sdu="" size="">*</maximum>		
When <pdp_type> is PPP</pdp_type>	: 10 (initial setting) to 1500 or 1502	2
When <pdp_type> is IP</pdp_type>	: 10 (initial setting) to 1500	

<cid> is a number for managing hosts (APNs) used for packet transmission, registered in the FOMA terminal. [Maximum bitrate UL] and [Maximum bitrate DL] set the maximum uplink and downlink transmission speed (kbps) between the FOMA terminal and base station. When set to [None] (default setting), all speeds are permitted. However, when set to "5760" and "7232", connections established under these speeds are not permitted, so packet transmission connection may not be established. Set the maximum permitting SDU size for [Maximum SDU size]. Note that when "10 (initial setting) to 1500 or 1502" is set, connections established under these values are not permitted, and packet transmission may not be connected. Note that connections established under "70" are not available.

#### **Execution examples**

Setting (1) is the initial setting for all cid.

- (1) Command permitting all uplink/downlink speeds (for <cid>=2)
  - AT+CGEQMIN=2↓ OK
- (2) Command permitting uplink speeds of 5,760 kbps, downlink speeds of 7,232 kbps, and maximum permitting SDU size 1500 (for <cid=3>) AT+CGEQMIN=3,,5760,7232,,,,1500.
  - OK
- (3) Command permitting uplink speeds of 5,760 kbps and all downlink speeds (for <cid>=4) AT+CGEQMIN=4,,5760↓ OK
- (4) Command permitting all uplink speeds and downlink speeds of 7,232 kbps (for <cid>=5) AT+CGEQMIN=5,,,7232 OK

#### Operation when parameter is abbreviated

AT+CGEQMIN= Clears all <cid> settings. AT+CGEQMIN=<cid> Returns specified <cid> setting to default setting. AT+CGEQMIN=? Displays list of values that can be set. AT+CGEQMIN? Displays current settings.

#### Command name: +CGEQREQ=[parameter]

#### **Overview**

Sets QoS (Quality of Service) required of the network when establishing PPP packet transmission.

Not stored in FOMA terminal's memory with AT&W commands. Not reset with AT&F or ATZ commands.

#### **Syntax**

AT+CGEQREQ=[<cid> [,<Traffic class> [,<Maximum bitrate UL> [,<Maximum bitrate DL> [,,,,<Maximum SDU size>]]]]]

#### **Parameter description**

This setting is assigned to each cid by default value.

<cid>\* : 1 to 10

<Traffic class>\*

2: interactive (initial setting)

3: background

<Maximum bitrate UL>\* : None (initial setting) or 64 to 5760

· 2 or 3

<Maximum bitrate DL>\* : None (initial setting) or 64 to 7232

However, even if the values of [Maximum bitrate UL] and [Maximum bitrate DL] are permitted level, they may be set to the values whose fractions were discarded.

<Maximum SDU size>\*

When <PDP\_type> is PPP : 10 to 1500 or 1502 (initial setting) When <PDP type> is IP : 10 to 1500 (initial setting)

<cid> is a number for managing hosts (APNs) used for packet transmission, registered in the FOMA terminal.

#### **Execution examples**

Setting (1) is set to each cid as initial setting.

(1) Command when requesting connection without setting uplink/downlink speeds (for <cid>=2, Traffic class=2) AT+CGEQREQ=2

OK

- (2) Command when requesting connection at uplink speeds of 5,760 kbps, downlink speeds of 7,232 kbps, and maximum permitting SDU size 1500 (for <cid>=3, Traffic class=2) AT+CGEQREQ=3,2,5760,7232,,,,1500 OK
- (3) Command when requesting connection without setting uplink speeds of 5,760 kbps or downlink speeds (for <cid>=4, Traffic class=2)
   AT+CGEQREQ=4,2,5760
   OK
- (4) Command when requesting connection at downlink speeds of 7,232 kbps without setting uplink speeds (for <cid>=5, Traffic class=2)
   AT+CGEQREQ=5,2,,7232
   OK

#### Operation when parameter is abbreviated

AT+CGEQREQ= Returns all <cid> settings to default settings. AT+CGEQREQ=<cid> Returns specified <cid> setting to default setting. AT+CGEQREQ=?

Displays list of values that can be set. AT+CGEQREQ?

Displays current settings.

## **Result codes**

#### Result codes

Numerical display	Text display	Meaning
0	OK	Successfully executed.
1	CONNECT	Connected to number dialed.
2	RING	Call detected.
3	NO CARRIER	Line disconnected.
4	ERROR	Command not accepted.
6	NO DIALTONE	No dial tone detected.
7	BUSY	Detecting busy tone.

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Numerical display	Text display	Meaning		
8	NO ANSWER	Connection completed. The server connection timed out.		
100	RESTRICTION	Network restricted.		
101	DELAYED	Redial restricted.		

## Extended result codes

Numerical display	Text display	Meaning
5	CONNECT 1200	FOMA terminal and PC connected at 1,200 bps.
10	CONNECT 2400	FOMA terminal and PC connected at 2,400 bps.
11	CONNECT 4800	FOMA terminal and PC connected at 4,800 bps.
13	CONNECT 7200	FOMA terminal and PC connected at 7,200 bps.
12	CONNECT 9600	FOMA terminal and PC connected at 9,600 bps.
15	CONNECT 14400	FOMA terminal and PC connected at 14,400 bps.
16	CONNECT 19200	FOMA terminal and PC connected at 19,200 bps.
17	CONNECT 38400	FOMA terminal and PC connected at 38,400 bps.
18	CONNECT 57600	FOMA terminal and PC connected at 57,600 bps.
19	CONNECT 115200	FOMA terminal and PC connected at 115,200 bps.
20	CONNECT 230400	FOMA terminal and PC connected at 230,400 bps.
21	CONNECT 460800	FOMA terminal and PC connected at 460,800 bps.

 When n=1 is set for the ATV<n> command (IPP. 38), result codes are displayed as text (default setting). When set to n=0, they are displayed as numerical values.

• Transmission speed is displayed to maintain compatibility with conventional modems connected by RS-232C. However, since the FOMA terminal is connected to the PC using FOMA USB Cable with Charge Function 02 (sold separately) or Bluetooth function, the displayed speed will differ from the actual speed of connection.

• When [RESTRICTION] (Number: 100) appears, the transmission network is congested. Try connecting again later.

## Communication protocol result codes

Numerical display Text display Meaning		Meaning
1	PPPoverUD	Connected with 64K data communication
5	PACKET	Connected with packet transmission

#### Result code display examples

When ATX0 is set

The CONNECT display appears only when connection is completed, regardless of the AT¥V<n> command (27 P. 39) setting.

Text display example: ATD\*99\*\*\*1# CONNECT Numerical display example: ATD\*99\*\*\*1#

-----l-

When ATX1 is set

#### When ATX1 and AT¥V0 are set (initial value)

When connection is completed, CONNECT <speed between FOMA terminal and PC> appears in the syntax.

Text display example: ATD\*99\*\*\*1#

1

CONNECT 460800

Numerical display example: ATD\*99\*\*\*1# 1 21

#### When ATX1 and AT¥V1 are set\*

When connection is completed, the information below appears in the syntax.

CONNECT <speed between FOMA terminal and PC> PACKET <host (APN)>/<maximum uplink speed (FOMA terminal to mobile network base station)>/<maximum downlink speed (mobile network base station to FOMA terminal)>

Text display example:	ATD*99***1#
	CONNECT 460800 PACKET mopera.ne.jp/5760/7232
	(Indicates terminal connected to mopera.ne.jp, at maximum uplink speed of
	5,760 kbps and maximum downlink speed of 7,232 kbps)
Numerical display example	: ATD*99***1#
	1 21 5

\* Dial-up connection may not be processed correctly when ATX1 and AT¥V1 are simultaneously set. Using only AT¥V0 is recommended.

# **Kuten Code List**

#### Use four-digit kuten codes to enter kanji, hiragana, katakana, symbol, and alphanumeric characters.

- Each kuten code corresponds to a particular character. Refer to "Inputting Kuten Code" of the user's guide for details.
  If an unregistered kuten code is entered, either a space or nothing will be entered.
- Some entries in the kuten code list may differ from on the screen.

Kuten	Kuten 4th digit	Kuten	Kuten 4th digit	Kuten	Kuten 4th digit
1 to 3 010	0 1 2 3 4 5 6 7 8 9	1 to 3 073	0 1 2 3 4 5 6 7 8 9 Ь Э Ю Я	1 to 3 187	0 1 2 3 4 5 6 7 8 9 我牙画臥芽蛾賀雅餓駕
011 012 013 014 015	!     . </td <td>074 075 076 077 078</td> <td>а б в г д е ё ж з и й к л м н о п р с т у ф х ц ч ш щ ъ ы ь э ю я</td> <td>188 189 190 191 192</td> <td>介会解回塊壞 2000 一次会解回塊壞 2000 一次一次一次 一次一次 一次 一次 一次 一次 一次 一次 一次 一次 一次</td>	074 075 076 077 078	а б в г д е ё ж з и й к л м н о п р с т у ф х ц ч ш щ ъ ы ь э ю я	188 189 190 191 192	介会解回塊壞 2000 一次会解回塊壞 2000 一次一次一次 一次一次 一次 一次 一次 一次 一次 一次 一次 一次 一次
016 017 018 019 020 021	$\begin{array}{c} +-\pm\times\div=\neq <\circ C \\ +-\pm\times\circ\circ ? \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	080 081 082 083	┿╤┷┎╗┙┷┶╞╤ ╡┷╪┠┵╕┷┿╞╤	193 194 195 196 197 198	韾拡浾顎烚朩袮騘氌 呩袮騘氌 礛
022 023 024	$\begin{array}{c} \subseteq \supseteq \subseteq \supseteq \\ \bigcirc \\ \cap \\ \\ \land \\$	130 131 132 133	123456789 10112134156789 201111111VVVIVIVIX スポッキュジェムグシステジス	199 200 201 202	<sup>111</sup> 粥刈苅瓦乾侃冠寒刊 助勧券 瞬間 多字 宮 室工
026 027 028	$ \begin{array}{c} \swarrow \checkmark \swarrow \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark $	134 135 136	ポデ空 デデン な 就 学 mm cm km mg kg cc m 報 ″ No.KK.TEL ①	203 204 205	
029 031 032	0 1 2 3 4 5 6 7 8 9	137 138 139	●C\$	206 207 207	電丸已厚敵坑密吸石飢 贋雁頑顏願 ———考———
033 034 035 036	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b c d e	160 161 162 163	亜唖娃阿哀愛挨姶 婱茜穐悪握渥旭葦芦 鯵 梓 圧斡扱宛姐虻飴絢綾 鮎或粟袷安庵按暗案闇	208 209 210 211	企伎危喜器 基
037 038 039 040	fghijklmno pqrstuvwxy z ああいいろうえうち	164 164 165	鞍杏	212 213 214 215	「機構」 「 、 、 、 、 、 、 、 、 、 、 、 、 、
041 042 043 044	* あかざしちにひってばほ あかざたてになっていていていていていていい あかざたてい たちにひつしてい たた たたでひ に てい た た た で た し ち た た に せ せ つ に て に は せ で し ち へ っ ち っ た っ た っ て っ に ち っ に っ た っ た っ た っ た っ た っ た っ た っ た っ た	166 167 168 169	以伊意慰表花 一 成 府 高 た な 得 た 為 た 微 一 成 た 橋 た 為 た 義 二 一 長 思 表 表 裏 長 豊 溢 送 奶 の の 間 売 売 え 衣 湯 一 員 言 奇 行 允 売 一 員 言 売 元 晩 一 員 言 売 元 晩 一 の 員 の 一 の の の の の の の の の の の の の	216 217 218 219	紀鬼犠吉客宮究巨禦 一般電頻 一般電頻 一般電頻 一般電頻 一般電頻 一般電頻 一般電頻 一般電 一般電 一般電 一般電 一般電 一般電 一般電 一般電
045 046 047 048	ぼぼまみむめもゃやゅ ゆょよらりるれろわわ ゐゑをん	170 170 171 172	右宇烏羽	220 221 222 223 224	
050 051 052	ァアィイゥウェエォ オカガキギクグケゲコ ゴサザシジスズセゼソ ゾタダチヂッツツテデ	173 173	2時が非続残立進出し約5% 明靜蔚鰻姥厩浦瓜閏噂 云運雲 在餌叡営嬰影映	225 226	法都領導極法 「一個」 「 「 「 「 「 「 」 」 」 二 、 、 、 、 、 、 、 、 、 、 、 、 、
053 054 055 056	トドナニヌネノハババ	174 175 176 177	在 電源 之 家 没 空 題 親 記 習 題 題 影 思 空 題 親 記 熟 空 題 親 記 察 空 題 影 訳 次 弦 座 室 照 記 究 空 題 記 次 空 題 記 次 空 题 記 究 空 题 記 究 之 室 知 念 成 室 訳 究 空 题 記 究 空 题 完 品 、 次 空 医 記 ( つ 変 の 室 別 次 つ 空 聞 の の の の の の の の の の の の の の の の の の	226 227 228 229	九 俱句区狗玖矩苦躯駆駈 駒具愚虞喰空偶寓遇隅 串櫛釧屑屈
057 058		178 178	<b>の</b>	230 231 232	掘窟沓靴轡窪熊隈粂 栗縔桑鍬勲君薫訓群軍 郡
060 061 062 063	Α Β Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο Π Ρ Σ Τ Υ Φ Χ Ψ Ω α β γ δ ε ζ η	179 180 181 182	凹央奥往応 押旺橫欧殴王翁襖鶯 鴎黃岡沖荻億屋憶臆桶 牡乙俺卸恩品惡音	232 233 234	サ 卦袈祁係傾刑兄啓圭 珪型契形径恵慶慧憩掲 携敬景桂渓畦稽系経継
064 065	θικλμνξοπρ στυφχψω	182 183		235 236 237	繋罫茎荊蛍計詣警軽頚 鶏芸迎鯨劇戟撃激隙桁 傑欠決潔穴結血訣月件
070 071 072	АБВГДЕЁЖЗ ИЙКЛМНОПРС ТУФХЦЧШЩЪЫ	184 185 186	家寡科暇果架歌河火珂 禍禾稼筒花苛茄荷華菓 蝦課嘩貨迦過霞蚊俄峨	238 239 240	倹倦健兼券剣喧圏堅嫌 建憲懸拳捲 検権牽犬献研硯絹県

Kuten 1 to 3	Kuten 4th digit 0 1 2 3 4 5 6 7 8 9	Kuten 1 to 3	Kuten 4th digit 0 1 2 3 4 5 6 7 8 9	Kuten 1 to 3	Kuten 4th digit 0 1 2 3 4 5 6 7 8 9
241 242 243	肩見謙賢軒遣鍵険顕験 鹸元原厳幻弦減源玄現 絃蔽言諺限	309 310 311 312	醸錠嘱埴飾 拭植燭燭纖職色触食 袖展居伷信傷唇娠喧寒	370 371 372 373	邸鄭釘鼎泥摘擢敵滴 的笛適鏑溺哲徹撒轍迭 鉄典填天展店添纏甜貼 転顛点伝殿澱田電
243 244 245 246	「こ」 「一」 「一」 「一」 「一」 「一」 「一」 「一」 「一」 「一」 「一	313 314 315	は 応 応 育 に 市 部 定 和 定 和 定 和 定 和 定 元 に 日 一 部 臣 一 一 部 臣 一 石 に 大 元 に 一 石 「 に 十 新 新 絶 同 三 都 臣 一 石 臣 本 寺 に 同 三 都 臣 一 石 臣 本 寺 に 一 石 一 石 し 石 本 か 二 一 石 一 一 一 一 一 一 一 一 一 一 一 一 一	373 374 375	「二日本」 「「一」」 「「」」 「「」」 「「」」 「」」 「」」 「」」 「」」 「
247 248 249 250	御悟梧檎瑚碁語誤護醐 乞鯉交佼侯候倖光公功 効勾厚口向 「匠喉坑垣好乳孝宏工	315 316 317 318	笥諏 狟 冝 下 図 野 翠 支 逐 遂 枢 趨 文 夢 飾 推 水 随 夏 夏 遂 求 野 野 夏 夏 家 野 夏 夏 家 野 夏 夏 家 野 夏 夏 家 登 家 夏 家 登 家 夏 家 予 部 第 二 文 家 予 第 第 二 》 勝 三 文 家 予 約 第 之 》 の 家 予 の 第 一 、 の 第 一 、 、	376 377 378 379	と 定 支 と 上 な 変 登 立 婚 振 察 に 成 変 空 生 地 の 察 思 で 、 の 空 空 生 地 の 察 思 に 成 定 支 地 病 感 空 た 城 の 察 思 に 板 家 思 気 た で の 家 思 に 、 の 家 思 気 た で の 家 思 気 た 気 か い の 家 思 気 た り い 気 空 た が の 家 思 気 た 物 の 客 に 病 た う た の 知 空 た に か の 空 た た か 空 た に か か の た た か 空 た た か の 空 た た か の 空 た た か の 空 た た か の 空 た た の か の た の た の か の た の た の か う た か か う た か か う た か か う た た か つ 立 空 た か う た か う た か う た か う で か い う で か か う で か い う た の か う で か う に う か う い う で か う い う い う い う い う い う か う い う の か う い う の の い う の か う の の の の の の の の の の の の の
251 252 253 254	ら巻辛広庚康弘恒慌扏 抱控な昂晃更杭校梗 構 減 田 聖 に 加 た で た に れ た で た で た で た で た で た に れ 校 校 で 橋 聴 航 校 校 橋 藤 売 れ や で に れ で た で に 病 売 三 に 前 や で に れ で で に れ に で で に れ に で で に れ に で で に れ に で で に れ に で で に れ に で で れ に か い た で で に れ た で で に れ た で で の に の た の で の に の た の に た た で で の に の た の た の で の た の で の に の た の の の た の の の た の の の の の の の の の の の の の	319 320 320		380 381 382 383	鐙陶頭騰闘動同堂導 幢撞洞瞳童胴萄道銅峠
255 256 257 258	动 巧拘江紅航砿号告約 督 同時幸政浩殺行閤壕敷骨頃根 了抗広島港綱講項濠鵠込困混 子 大大東京 大教 行閤壕敷骨頃根 一坑広島港綱 諸項 斎 素 型 浩 教 行 閣 濠 勝 山 京 法 殺 行 閣 濠 勝 和 三 精 勝 講 勇 慶 豪 告 教 留 ( 慶 、 本 四 院 本 四 院 本 四 院 本 四 院 本 四 院 本 四 院 本 四 院 本 四 院 志 四 常 本 約 合 国 修 世 約 の 后 志 四 宗 本 約 の 一 物 一 約 一 約 一 約 一 約 一 約 四 約 二 約 一 約 四 約 二 約 一 約 四 約 二 約 一 約 四 約 二 約 一 約 四 約 二 約 四 約 二 約 四 約 二 約 四 約 四 約 四 約 四	321 322 323 324	世城 記 是 凄 間 一世成 磁 都 星 墨 一世成 磁 都 星 聖 声 各 不 一世 成 延 編 中 一世 成 延 編 市 市 市 市 市 市 市 市 市 市 市 市 市	384 385 386	戦谷雲蛇 なーーー
	<sup>201</sup> 間石 此頃今困坤墾婚恨懇 昏昆根梱混痕紺艮魂 さ	325 326 327 328	勢栖西脆籍接蝉扇煽 選个姓正誠隻續其他稱了一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個一個	386 387 388	奈那内乍凪薙 謎灘捺鍋楢馴縄畷南楠 軟難汝 ———————————————————————————————————
261 262 263 264 265	些 些 。	329 330 331 332	腳	388 389 390 390	二尼弐迩匂賑肉 虹廿日乳入 如尿韮任妊忍認 ——ぬ~の——————————————————————————————————
265 266 267 268 269	义载滞在高学校的资源。	332 333 334 335	9 9 9 9 9 2 2 3 2 9 2 9 2 9 2 9 2 9 2 9	390 391 392 393	本 学 深禰 称寧葱猫熱年念捻撚燃 粘乃廼之埜嚢悩濃納能 脳農農覗蚤
270 271 272 273	鯭 雴拶撮魳朹殺薩雑皐 歸捌錆鮫皿哂產參與 讃散 散 橋 燦 物 散 桟 燦 珊 齋 四 慶 約 一 慶 約 一 慶 約 5 〇 四 慶 次 5 〇 四 慶 次 5 〇 四 慶 二 慶 一 四 一 一 一 四 一 一 一 四 一 一 一 四 一 一 四 一 四	336 337 338 339	<b>相倉按漂在</b> 新喪掃筆 大 「 「 和 之 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、	393 394 395 396	10
273	し	340 341 342	а 職 蔵 贈 造 促 側 則 即 息 捉 束 測 足 速 俗 属 賊 族 続 卒 袖 其 揃 存 孫 尊 損 村 遜 <b>た</b> ————————————————————————————————————	397 398 399 400	12/25400000000000000000000000000000000000
276 277 278 279	使子施紙諮字 耳軸湿摩社尺惹腫緩 刺屍旨紫資寺次自只漆蕊紗杓主趣需 司市砖肢賜慈滋蒔雫疾編者灼取酒囚 肥思氏視齒 靈鹿執蔀射途親朱受 四思氏視齒 雪鹿執蔀射途親朱受 四思氏視齒 雪鹿執蔀射途親朱受 不能。 上指拗詞事 痔式失後拾蛇錫殊防 始支祉計似 磁識嫉駕赦邪若狩 馬子文自只漆蕊紗杓主趣需	343 344 345 346	也柁岱腿台宅諾 家能常苔大托茸叩谷探耽着 多舵带苔大托茸叩谷探耽着 家院太常等获师自達 翻求感息題況只辰樽淡誕 。 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個	401 402 403 404	按其倍陪柏爆 畑抜半犯臉 ● 一次其倍陪柏爆 畑抜半犯前 臺 第一次 美格式 化量量 化 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一
280 281 282 283	次滋治爾璽痔磁示而 耳自蒔辞汐鹿式識鴫竺 軸宍雫七叱執失嫉室悉 湿漆疾質実蔀篠偲柴芝	347 348 349 350	台大第醍題鷹滝瀧卓啄 宅托択拓沢濯琢託鐸濁 諾茸凧蛸只 叩但達辰奪脱巽竪辿	405 405 406	
284 285 286 287	屡蕊縞舎写射捨赦斜煮 社紗者謝車遮蛇邪借勺 尺杓灼爵酌釈錫若寂弱 惹主取守手朱殊狩珠種	351 352 353 354	棚谷狸鱈樽誰丹単嘆坦 担探旦歎淡湛炭短端簞 綻耽胆蛋誕鍛団壇弾断 暖檀段男談	407 408 409 410	比泌疲皮碑秘緋罷肥被 誹費避非飛樋簸備尾微 枇毘琵眉美 鼻柊稗匹疋髭彦膝菱
290 291	腫趣酒首儒受呪寿授樹 綬需囚収周 宗就州修愁拾洲秀秋 終繍習臭舟蒐衆襲譬蹴	354 355 356		411 412 413 414	卑比誹枇 肘百評蛭物 。 一般 一般 一般 一般 一般 一般 一般 一般 一般 一般 一般 一般 一般
292 293 294 295	<sup>校</sup> 而凶收向修剂整整的。 一般的一个, 一般的一个, 一般的一个。 一个。 一个。 一个。 一个。 一个。 一个。 一个。	357 358 359 360	1919日芯油昼柱注出表 1注酎鋳駐樗瀦猪苧著貯	415 415 416	9X //DI
296 297 298 299	回 帽 殉 浮 準 潤 盾 純 巡 遵 醇 順 処 初 所 暑 曙 渚 庶 緒 思 鋤 除 易 君 諸 詰 助 叙 女 序 徐 歌 鋤 除 易 可 。	361 362 363	3 名岐院市	417 418 419 420	一一一 一 一 行 之 年 子 婦 室 谷 府 腐 天 勝 一 行 作 大 歌 史 行 客 深 公 符 侮 房 公 行 侮 序 之 符 符 路 四 府 侮 言 不 柄 腐 之 符 6 篇 四 句 備 章 之 符 6 篇 四 句 備 写 之 符 6 篇 四 句 備 写 之 符 ( 個 個 一 句 備 写 之 符 ( 個 個 一 個 一 四 句 個 一 四 四 句 個 個 四 四 四 句 個 個 四 四 四 四 四 四 四 四 四
300 301 302 303	膀近升台峭商唱冒奖 妾娼宵将小少尚庄床廠 了。 一般。 一般。 一般。 一般。 一般。 一般。 一般。 一般。 一般。 一般	363 364 365 366	津墜椎 槌追鎚痛通塚栂掴槻佃 漬柘辻蔦綴鍔椿漬坪壷 嬬紬爪吊釣鶴	421 422 422	粉戴粉雾文聞
304 305 306 307 308	述旬醇署恕 妾彰松照紹詳丈情 峻殉涼初藉傷升戶常品、 離子、 大橋 、 一、 一、 一、 一、 一、 一、 一、 一、 一、 一、 一、 一、 一	366 367 368 369		423 424 425 426	下, 下 下 下 下 下 下 下 下 下 下 下 下 下

Kuten	Kuten 4th digit	Kuten	Kuten 4th digit	Kuten	Kuten 4th digit
1 to 3	0 1 2 3 4 5 6 7 8 9	1 to 3	0 1 2 3 4 5 6 7 8 9	1 to 3	0 1 2 3 4 5 6 7 8 9
426 427 428 429		474 475 476 477 478	枠鷲亙亘鰐詫藁蕨椀漥 碗腕	551	幟廁 盧
430 431 432 433	上抱。 「 」 「 」 」 「 」 」 、 、 た 一 一 一 一 一 一 一 一 一 一 一 一 一	479 480 481 482	北京市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市	554 555 556	徑徂彿徊很徑徇從徙徘 徠徨徭徼付忻忤忸忱忝 悳忿怡恠怙恂怩怎怱怛
434 435 436	群亡望鉾牧都是 50000 一望鉾牧都是 50000 500	483 484 485 486	切仗切囚仟价伉佚佶佛 佝佗庁佶多保住保佩佰 侑催魚傖륟 ー 備俚魚傖 ー ー の の の の の の に の に の に の に の に の に の	557 558 559 560	怕怫怦怏怺恚恁悋恷恟 恊恆恍恣恃恤恂恬恫恙 悁憆悖悗悒悧慉惡悸
436 437 438 439 440	▶ 5 ● 5 ● 5 ● 5 ● 5 ● 5 ● 5 ● 5 ●	487 488 489 490 491 492	僮價僵儉儁儂儖懠儔儚	561 562 563 564 565 566	協悁 惠愆愍愴慴憇應懣戉 扦抓拆挌捍掉揉攝撓 擧擺ケ で、「「「」」」。 「」」、「」」、「」」、「」」、「」」、「」」、「」」、「」」、「」」、「」」
440 441	味未魅巳箕岬密 蜜湊蓑稔脈妙粍民眠	493 494 495	■職職の 一次の した 同家 に の の の の の の の の の の の の の	567 568 569	恣懷懈懃燥憺懋罹懍懦 懣懶懺懴懿懽懼攝戀 戊戊戌戔戛
441 442 442	務 夢無牟矛霧鵡椋婿娘 ———め——— <sub>同</sub>	496 497 498 499	儿處 林 凭 凰 凵 凾 从 刋 刔 刎 刧 刪 刮 刳 刹 剏 剄 剋 剌 剞 剔 剪 剴 剩 剳 剿 剽 劍 劔 緰 侴 磨 薊 辨	570 571 572 573	戞戡截戮戰戰戰 扁扎 扞扣扛扠扨扼抂抉找抒 抓抖拔抃抔拗拑抻拏拿 拆蟾拈拜跸拗拂橱拁扪
443 444	名命明盟迷銘鳴姪牝滅 免棉綿緬面麺 	500 501 502	·劉剱等劑部 新動動動動動動動動 動物動動動動動動動動動動動動動動動動動動動動動動動動動動	574 575 576	挌Ŧ逬挧挂揧拯梇捐拻 搰捜腟掵撊揼攭漄湅猤淌
444 445 446 447	摸模茂妄 孟毛猛盲網耗蒙儲木黙 目杢勿餅尤戻籾貰問悶 約門匁 や	503 504 505 506 507	に 別 の の の に の の の に た 則 夏 数 斯 一 の の の の の の の の の の の の の	577 578 579 580 581	猱拪揤 <b>榌</b> 摇藆簼菦閯痆 攝搗掦搏摧摰摶摎攪撕 撓朤摬朥蘠薘孹霝擱擧 몛迹邅塧埐嚔躋撘攈
447 448 449	也治夜爺耶野弥 矢厄役約薬訳躍靖柳薮 鑓ゆ	508 509 510 511	\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$\$P\$	584	約 約 訪 動 諭 敵 緣 斛 斟 析
449 450 451 452	喻愈油癒 諭輸唯佑優勇友宥幽 悠憂指有柚湧涌猶甘 祐裕誘遊已よ	512 513 514 515 516	唔 喓 嗘 哷 뗙 、 、 、 、 、 「 、 、 、 、 『 、 、 、 『 、 『 、 、 『 、 『	590 I	NIIII 11 11 11 11 11 11 11 11 11 11 11 11
452 453 454 455 456	余据整理 宗 "	517 518 519 520 521	嚀嚊嚠嚔崨嚥嚮嚶嚴囂 嚼囁囃囀麼囎噊囓□囮 	593 594 595	曵磶멊枙 杤 杤 杤 杤 村 府 府 府 府 府 府 府 府 府 府 府 府 府 府 府
456 457 458	5 羅 螺裸来莱頼雷洛絡落酪 乱卵嵐欄濫藍蘭覧	522 523 524 525	坿垉姟拫垳垤垪垰埃埆 埇埒埓堊婲媘煝堙塹墅 寠 壥 墵 墺 嚔 墻 墻	597 598 599	罙恗悋恎笟悋伡冃侽仺 梟梏梭梔僺梛梃檮梹桴 梦絽埜朽梎捃梈蜝椈赫
458 459 460 461		526 527 528 529 530		600 601 602 603 604	3個 樟樹椰樹 植物 花 物 一 花 一 花 一 花 一 花 一 花 一 花 一 花 一 花 一
462 463 464 465	履和 一次 一次 一次 一次 一次 一次 一次 一次 一次 一次	531 532 533 534 535	去奶奶奶的小吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃吃	605 606 607 608 609	榧樮槫榠橬榝橊枪 轗 棢 欋 櫿 櫓 榴 櫂 櫿 櫓 橋 櫓 櫂 櫓 榴 櫂 櫓 榴 櫂 櫓 榴 櫂 櫓 榴 樫 櫓 榕 木 欄 橋 橋 橋 橋 橋 橋 橋 橋 橋 橋 橋 橋 橋 橋 橋 橋 橋 橋
466 467 468 469 470	瑠瑿涙累柔爺 橋 哈 ふ れ い の っ の の の の に の の の の の の の の の の の の の	536 537 538 539 540 541	姜婀嫋嬌孀學寔寶尹 岑峇崗嵌帳顧帑 姸媛遽嫐窙乞實更 医粘膜 歐洲 医大家 化乙基乙基 医乙基乙基 医乙基乙基 医乙基乙基 医乙基 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個	610 611 612 613 614 615	悼楷楙榿榧樛樔樶檍 櫑欖軟殀殯毬氣汾泅 洽堤樹椰槁梗槿槫櫑檠蝾櫠歠欼残遥汞汩泝沺洸粒梗楝槎榜槲權橙檣櫃櫪歀斔殘覐竃沂泔 泻测管楝楮楪菜榕榴樅樓橈 檳糵欰廯殤迚〔沚沾污池、」、須、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、、
470 471 472 473	呂魯櫓炉賂路 露労婁廊弄朗楼榔浪漏 牢狼篭老聾蝋郎六麓禄 肋録論	541 542 543 544 545	AG商款。 AG商款。 Magental AG商款。 Magental	615 616 617 618 619	得越氣水。 「 「 「 「 「 「 「 「 」 、 、 、 、 、 、 、 、 、 、 、 、 、
473	わ 倭和話歪賄脇惑	546 547	<sup>累</sup> 當敵 <sup>1111</sup> 坐口巴帶帝 察帛帶帷幄韓幀幎幗幔	620 621	一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一

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$644$ $\eta$ <td< td=""><td>622</td><td>浚浹浙涎涕濤涅淹渕渊</td><td>695</td><td>縡縒縱縟縉縋縢繆繦縻</td><td>768</td><td>跟跣跼踈踉跿踝踞踐踟 <sup>蹑腰</sup>险<sup>œ</sup>∞</td></td<>	622	浚浹浙涎涕濤涅淹渕渊	695	縡縒縱縟縉縋縢繆繦縻	768	跟跣跼踈踉跿踝踞踐踟 <sup>蹑腰</sup> 险 <sup>œ</sup> ∞
$644$ $\eta$ <td< td=""><td>624</td><td>  泗洪   -   -   -   -   -   -   -   -   -   </td><td>696 697</td><td>  綬 標 棚 縷 絲 楗 糕 榈 梸 税     繙 繚 繹 繪 繩 繼 繻 纃 緕 繽  </td><td>769</td><td>译 進 潮 竭 送   春 送 蹌 蹐 蹈 蹙 蹤 蹠 踪</td></td<>	624	泗洪   -   -   -   -   -   -   -   -   -	696 697	綬 標 棚 縷 絲 楗 糕 榈 梸 税     繙 繚 繹 繪 繩 繼 繻 纃 緕 繽	769	译 進 潮 竭 送   春 送 蹌 蹐 蹈 蹙 蹤 蹠 踪
$644$ $\eta$ <td< td=""><td>625</td><td>渙湲湟渾渣湫渫湶湍渟</td><td>698</td><td>辮繿纈纉續纒纐纓纔纖</td><td>771</td><td></td></td<>	625	渙湲湟渾渣湫渫湶湍渟	698	辮繿纈纉續纒纐纓纔纖	771	
$644$ $\eta$ <td< td=""><td>626</td><td>  湃 渺 涸 冽 兩 凇 游 渊 渼 溘   滉 溷 滓 溽 溯 滄 溲 滔 滕 溏</td><td>699 700</td><td>  礟 縣 纜 山 忒   罅 罌 罍 罎 罐 网 罕 罔 罘  </td><td>773</td><td>  碍 與 蹲 遘 濉 躙 蹦 躬 粋 軆    躲 躾 軅 軈 軋 軛 軣 軼 軻 軫 </td></td<>	626	湃 渺 涸 冽 兩 凇 游 渊 渼 溘   滉 溷 滓 溽 溯 滄 溲 滔 滕 溏	699 700	礟 縣 纜 山 忒   罅 罌 罍 罎 罐 网 罕 罔 罘	773	碍 與 蹲 遘 濉 躙 蹦 躬 粋 軆    躲 躾 軅 軈 軋 軛 軣 軼 軻 軫
$644$ $\eta$ <td< td=""><td>628</td><td><b>溥滂溟潁漑灌滬滸滾漿</b></td><td>701</td><td>罟罠罨罩罧罸羂羆羃羈</td><td>774</td><td>  虹 輇 輍 輕 耴 郫 輗 輜 輟 輛 </td></td<>	628	<b>溥滂溟潁漑灌滬滸滾漿</b>	701	罟罠罨罩罧罸羂羆羃羈	774	虹 輇 輍 輕 耴 郫 輗 輜 輟 輛
$644$ $\eta$ <td< td=""><td>629</td><td>&gt;   ※ 釈 帝 派 條</td><td>702 703</td><td> 羇圥 志</td><td>( (5 776</td><td>  輌 輦 輳 輻 輹 轅 轂 輾 轌 轉     皫 轎 轗 轜 卛 轣 轤 茎 跓 辣  </td></td<>	629	>   ※ 釈 帝 派 條	702 703	羇圥 志	( (5 776	輌 輦 輳 輻 輹 轅 轂 輾 轌 轉     皫 轎 轗 轜 卛 轣 轤 茎 跓 辣
$644$ $\eta$ <td< td=""><td>631</td><td>潛潛潭澂潼潘澎澑濂潦</td><td>704</td><td>翦翩翳翹飜耆耄耋耒耘</td><td>777</td><td>辭辯辷迚迥迢迪逊邇迴</td></td<>	631	潛潛潭澂潼潘澎澑濂潦	704	翦翩翳翹飜耆耄耋耒耘	777	辭辯辷迚迥迢迪逊邇迴
$644$ $\eta$ <td< td=""><td>632</td><td>                                     </td><td>705 706</td><td>  北 耜 耡 耨 耿 耻 聊 聆 聐 聘    覐 智 聢 聮 聳 磬 聰 聶 臨 聽 </td><td>( (8 779</td><td>迈 迦 迦 逐 逕 逻 道 逞 巡 迪 浴 逶 淕 逹 洴</td></td<>	632		705 706	北 耜 耡 耨 耿 耻 聊 聆 聐 聘    覐 智 聢 聮 聳 磬 聰 聶 臨 聽	( (8 779	迈 迦 迦 逐 逕 逻 道 逞 巡 迪 浴 逶 淕 逹 洴
$644$ $\eta$ <td< td=""><td>634</td><td>瀏濾瀛瀚潴瀝瀘瀟瀰瀾</td><td>707</td><td>  聿建肆肅肛肓肚肭肓肬 </td><td>780</td><td>還遐遑遒逎遉逾遖遘</td></td<>	634	瀏濾瀛瀚潴瀝瀘瀟瀰瀾	707	 聿建肆肅肛肓肚肭肓肬	780	還遐遑遒逎遉逾遖遘
$644$ $\eta$ <td< td=""><td>635</td><td>滅灑營炎炒炯烱炬炸炳 怐焑烋丞烙蛋怿惃焙燇</td><td>708 709</td><td>  押 肯 胙 貼 胃 胚 胖 脉 胯 胱     脛 偹 唇 晡 脑</td><td>781 782</td><td>滤 遨 遯 遶 隨 遅 邂 遽 遇 邀     邊 濤 羅 邨 邯 邱 邵 郢 郤 扈 </td></td<>	635	滅灑營炎炒炯烱炬炸炳 怐焑烋丞烙蛋怿惃焙燇	708 709	押 肯 胙 貼 胃 胚 胖 脉 胯 胱     脛 偹 唇 晡 脑	781 782	滤 遨 遯 遶 隨 遅 邂 遽 遇 邀     邊 濤 羅 邨 邯 邱 邵 郢 郤 扈
$644$ $\eta$ <td< td=""><td>637</td><td>熙熙煦煢煌煖煬熏燻熄</td><td>710</td><td><sup>6</sup>隋腆脾腓腑胼腱腮腥</td><td>783</td><td>郛鄂鄒鄙鄲鄰酊酖酘酣</td></td<>	637	熙熙煦煢煌煖煬熏燻熄	710	<sup>6</sup> 隋腆脾腓腑胼腱腮腥	783	郛鄂鄒鄙鄲鄰酊酖酘酣
$644$ $\eta$ <td< td=""><td>638</td><td><u>煩熨熬燗</u>  魚  爛  燥  燉  燔  燎</td><td>711</td><td>  脳 肤 腽 膈 腗 肪 膋 膠 膕 膤                                     </td><td>784 785</td><td>  林 彬 梢 雈 龉 醉 醂 醢 醫 醯    醪 鳾 穂 種 薙 母 釉 霙 촘 鈃 </td></td<>	638	<u>煩熨熬燗</u> 魚  爛  燥  燉  燔  燎	711	脳 肤 腽 膈 腗 肪 膋 膠 膕 膤  	784 785	林 彬 梢 雈 龉 醉 醂 醢 醫 醯    醪 鳾 穂 種 薙 母 釉 霙 촘 鈃
$644$ $\eta$ <td< td=""><td>640</td><td>燹燿爍爐爛爨爭爬爰</td><td>713</td><td>臂膺臉臍臑臙臘臈臚臟</td><td>786</td><td>釟釜釛釼釵釶鈞釿鈔鈬</td></td<>	640	燹燿爍爐爛爨爭爬爰	713	臂膺臉臍臑臙臘臈臚臟	786	釟釜釛釼釵釶鈞釿鈔鈬
$644$ $\eta$ <td< td=""><td></td><td>  烏 文 爼 爿 牀 牆 牋 牘 牴 牾   犂 犁 歮 犒 犖 蝽 嫌 犹 犲 狃</td><td>715</td><td>                                     </td><td>(8) 788</td><td>出</td></td<>		烏 文 爼 爿 牀 牆 牋 牘 牴 牾   犂 犁 歮 犒 犖 蝽 嫌 犹 犲 狃	715		(8) 788	出
$033$ $\Delta ucn 2le 2c^{l} c^{l} c$	643	<u>种</u> 狄狎狒 径狼 狡 狹 狷 倏	716	艝艚艟艤艢艨艪艫舮艱	789	鋩錏鋺鍄錮
$033$ $\Delta ucn 2le 2c^{l} c^{l} c$		猗 祝 猜 猖 猝 猴 猯 猩 猥 猾   擬 獐 歅 獗 淪 獨 껿 獸 灐 鹶	(1)	艶艸艾芍芒芫芟芻芬苡   昔苟苗甘支苺莓芀苻苤	790 791	錙錢錚錣錺錵錻鍜鍠 鍼鍮鍖鎰鎬鎬鎔鎹麋鰹
$033$ $\Delta ucn 2le 2c^{l} c^{l} c$	646	癩珈玳珎玻珀珥珮珞璢	719	苞茆苜茉苹	792	鏨鏥鏘鏃鏝鏐鏈鏤鐚鐔
$033$ $\Delta ucn 2le 2c^{l} c^{l} c$		垠 螂 坭 培 排 坛 塅 埂 瑟 幽   瑁 瑜 씓 瑰 瑣 瑪 瑶 译 瑾 璋 璞	720 721	因回各丝朱旬如存合   茯茫茗荔菇菇莪荟萊莁	793 794	踧 斑 珜 鐐 큟 큟 펿 펿 踾 遐 鑒 鑄 鑴 鑻 緖 鑞 鐳 鈩 鑰 鑵
$033$ $\Delta ucn 2le 2c^{l} c^{l} c$	649	壁瓊瓏瓔珱。はいては	722	莫莎莇莊荼菟荳荵莠莉	795	鑷鑽鑚鑼鑾钁鑿閂閇閊
$033$ $\Delta ucn 2le 2c^{l} c^{l} c$		劉淵 吐 吐 瓮 叱 咆 叱 胆 瓷 甄 登 喱 甌 甎 夢 壅 譬 甞	723	艮奄宜 里 昆 叔 卒 松 妻 靑   菷萇 菠 韮 萍 菏 萠 莽 萸 荡	796 797	文
$033$ $\Delta ucn 2le 2c^{l} c^{l} c$	652	<b>甦甬里甾酚畊畉畛畆畚</b>	725	菻葭萪萼蕚蒄葷蓢蒭藈	798	關闡闥闢阡阨阮阯陂陌
$033$ $\Delta ucn 2le 2c^{l} c^{l} c$	653	1111時暮畫時間富疆疇畴    骨疊疊作灰疝疥疣痂疳	726	帝 皅 保 禺 約 施 咼 翁 盇 兼   菖 荷 蓙 蓍 蒻 蓚 蓐 菶 茝 蔥	799 800	內 陷 陷 陜 座 陝 防 踌 陲 陬 隍 隘 唱 隗
660 $m$ 兴 癸 發 皀 റ 取 皋 皎         733	655	<u>痃疵疽疸疼疱痍痊痒痙</u>	728	蒡蔡蓿蓴蔗蔘蔬蔟蔕蔔	801	險隧隱隲隰隴隶隸隹雎
660 $m$ 兴 癸 發 皀 റ 取 皋 皎         733		志 栖	729 730	>> 一 ※ 棘 舜 堯 章 臺 蘂 莊 蕕 薀 薤 薈 菫 蓟	802 803	
660 $m$ 兴 癸 發 皀 റ 取 皋 皎         733	658	瘰瘻癇癈癆癜癘癡癢癨	731	薨蕭菩薛藪微薛蕷蕾薐	804	霹靂謳靆靈靂靉靜靠
665       Iteligiptic line $738$ Bis for all		M 欄 歴	732	精齊臧 臺 貎 耦 錅 樂 黎 謁    蘊 藕 葫 藾 藺 藺 蕾 蘢 蘚 蘰 蘿	805 806	曍 峴 密 朝 靫 勢 軓 軮 軴 敕    靺 鞆 弉 鞏 鞐 鞜 鞨 鞦 铎 鞳
665       Iteligiptic line $738$ Bis for all	661	皖皓晳皚皰皴皸皹皺盂	734	尼馬虔號虧虱蚓蚣蚩蚪	807	鞴韃韆韈韋韜韭齏韲竟
665       Iteligiptic line $738$ Bis for all	663	金盂 品 盞 盉 盥 盧 薀 盪 昉   肷 眇 眄 眩 眤 眞 皆 眦 眛 眷	736	奶 蚌 蚎 虹 笻 坦 昢 笻 蝿 即   蛔 铦 蛩 蛬 蛟 帙 铑 蜒 蜆 蜈	808 809	間前加坡筑隙はすれない。 前期朝顯顰
675 仙然紀微体作的俱他例 140 艳衾衣性似於的窗夜陷 615 容发弗包曲 674 稟禀稱稻臺稷穃穗穉穡 747 裝裹褂裼裴裨衲褄褌編 820 髻鬆鬟鬚鬟鬟鬣鬥鬧 675 筛寶莲薙穹穽窈窈窕雪 748 捉穿迴處視濾浴鼙藪澀 821 開翻鬭鬮幽嘉ఱ蛾稗鲷	664	眸睇 睚睨 時 時 時 時 時 時 時 時 時 時 時 時 時 時 時 時 時 時	737	蜀蜃蛻蜑蜉蜍蛹蜊蜴蜿	810	顱顴顳颪颯颱颶飄飅
675 仙然紀微体作的俱他例 140 艳衾衣性似於的窗夜陷 615 容发弗包曲 674 稟禀稱稻臺稷穃穗穉穡 747 裝裹褂裼裴裨衲褄褌編 820 髻鬆鬟鬚鬟鬟鬣鬥鬧 675 筛寶莲薙穹穽窈窈窕雪 748 捉穿迴處視濾浴鼙藪澀 821 開翻鬭鬮幽嘉ఱ蛾稗鲷	666		739	筇 蛃 蚧 蛃 蚉 蛨 珛 蚼 蚪 哟    蝴 蝗 蝨 蝮 蝙	812	<sup>                                    </sup>
675 仙然紀微体作的俱他例 140 艳衾衣性似於的窗夜陷 615 容发弗包曲 674 稟禀稱稻臺稷穃穗穉穡 747 裝裹褂裼裴裨衲褄褌編 820 髻鬆鬟鬚鬟鬟鬣鬥鬧 675 筛寶莲薙穹穽窈窈窕雪 748 捉穿迴處視濾浴鼙藪澀 821 開翻鬭鬮幽嘉ఱ蛾稗鲷		砌砒礦砠礪硅碎硴碆硼	740	輸蝣蝪蠅螢螟螂螯蟋	813	饐饋饑饒饌饕馗馘馥馭
675 仙然紀微体作的俱他例 140 艳衾衣性似於的窗夜陷 615 容发弗包曲 674 稟禀稱稻臺稷穃穗穉穡 747 裝裹褂裼裴裨衲褄褌編 820 髻鬆鬟鬚鬟鬟鬣鬥鬧 675 筛寶莲薙穹穽窈窈窕雪 748 捉穿迴處視濾浴鼙藪澀 821 開翻鬭鬮幽嘉ఱ蛾稗鲷	669	低低傍磊磬	741	蟯蟲皤蠏蠍 <sup>蟾</sup> 蟶 蟷 蠎 蠎	815	励 剤 鮒 献 剤 前 馬 叡 叡 齢    
675 仙然紀微体作的俱他例 140 艳衾衣性似於的窗夜陷 615 容发弗包曲 674 稟禀稱稻臺稷穃穗穉穡 747 裝裹褂裼裴裨衲褄褌編 820 髻鬆鬟鬚鬟鬟鬣鬥鬧 675 筛寶莲薙穹穽窈窈窕雪 748 捉穿迴處視濾浴鼙藪澀 821 開翻鬭鬮幽嘉ఱ蛾稗鲷			743	榮蠖蠕蠢蠡蠱蠶蠧蠧蠻	816	驅驂驀驃騾驕驍驛驗驟
675 仙然紀微体作的俱他例 140 艳衾衣性似於的窗夜陷 615 容发弗包曲 674 稟禀稱稻臺稷穃穗穉穡 747 裝裹褂裼裴裨衲褄褌編 820 髻鬆鬟鬚鬟鬟鬣鬥鬧 675 筛寶莲薙穹穽窈窈窕雪 748 捉穿迴處視濾浴鼙藪澀 821 開翻鬭鬮幽嘉ఱ蛾稗鲷	672	  禊禝禧齋禪禮禳禹禺秉	745		818	<sub>醞礦 巌 離 騳 祝 盰 取 船 脌 髏髑 髓 體 髞 髟 髢 髣 髦 髯</sub>
$0175$ $=$ $748$ $\pi^{4}$ <		批秧 秬 秡 秣 稈 稍 稘 稙 稠   宮 璢 琛 高 瑰 琢 瑓 琚 穧	746	抱袤袰袿袱裃裄裔裘裙	019	岩髮髴髱髷 
676窖竈 霎 鲸 寫 薩 這 賣 $749$ 樓 禅 禅 襠 輳 $822$ 糖魎 ष 動 新 齡 動 動 新 輸 動 新 驗 輸 動 新 輸 的 新 和 和 和 和 和 和 和 和 和 和 和 和 和 和 和 和 和 和	675	藏穩龝穰穹穽窈窗窕窘	748	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	821	用閱簡鬮鬯鬲魄魃魏魍
678       市場」迎気労流 $751$ 雨電寬寬視鏡離離局 $824$ 調歸聽點點點點點點點點點點點點點點點點點點點點點點點點點點點點點點點點點點點點		客窩竈窰窶竅竄窿邃竇 露计任份任站位前面。	749 750	裸 禅 襠 襞   煙 榔 媌 徳 瑚 鶘 櫓 襾 曹	822 823	飉魑魘魴鮓鮃鮰鮖鮗鮟 鯑鮨銝鰠硰鮹餔鯏艖銿
679答范笨笑筐 $752$ $\{\{\}\}$ $\{\}\}$	678	旗竭竰笂笏笊芭笳笘笙	751	覈覊覓覘覡覩覦覬覯覲	824	鯣鶃鯤鯔鯡鰺鯲鯱鯰鰕
681       寬花妆瓷塗 有54       品紙言読読記記詞意記       827       論體鸌驢罵覓見。       調見。       調読       第	679 680	苔笵苯笶筐   倖笠筍笋筌笶錠笠筬	752 753	覺覽覿觀胍觜觝觧腸觸	825 826	鱖 鯹 鰓 鰌 鰆 鰈 鰒 鰊 甒 鰮 鰛 鰥 鰤 鮂 鰰 鏕 嫯 諳 緸 轅
682       約箋帶爭爭範處皇僕戰       755       碑誡趾詰誦謂禮謔認認       828       駅漏嘴鷹篙碼媽點點         683       筬家薄篩簑簔篦簟簧       756       碑誡趾詰誦謂禮謔認認       829       湯鴿筍衟鵙 湯鴿筍衟鵙       湯鴿箸衟鵙鳴,鵙鵑鶉鶇         684       族簓範囊簧籃藪籏籀籐       757       福課評評評論認認認       829       湯鴿翁衟鵙       湯鳴鶴八鳥鳴鳥鳴鳥鳴鳥鳴鳥鳴鳥鳴         685       篳簷簷簫簽籌籃藪籏籀籐       758       謳調聲誓簡證之意語       831       精鵯鵺鶚鳴驚驚顫驚驚       831       精鵯鵺鶚鳴驚驚驚驚         686       藤藻麵和粒粳粱粮滓       760       護識竇澄診範證證言       832       휋鷽鷹驚驚歐藪麼鼓鼓勵         688       粽糀糅糂稼糯       761       讓識濯寶舒影和銘銘範監       835       麴廳屬鹭奓麥鼓點點         688       粽糀糅糂稼糯       761       讓識濯寶影影影認給意       836       醫點驚黨驚驚愛影點點點         690       杯紅松茶和紅茶       763       狸貂狼兒夏貪胎皆       836       醫點驚黨驚驚影點點         691       統紀批新約紙梁純紺       764       貳彀貶賣贅屬聽驚意遵驚驚聽       836       點點驚驚聽驚整整點點點         692       經綉係經紀紀綺察総紙       765       眶聲贅贅號賣贅意聽驚驚意       838       此節齟齪的節 齦齧 齬齪齷         693       編緝 縲緞 繳 緲 緡 縅縊 縣       767       趾趺跏跏跖跖跌跋跋跄 跫       840       範範記範範聽         693       編緝 縲緞 繳 緲 緡 縅縊 縣       767       趾趺跏跏跖跖跌跋跋跄 跫       840       範記範記範證         694       編緝 縲緞 繳 緲 緡 縅縊 縣       767 <t< td=""><td>681</td><td>寬作筱筬筮箝箘箟箍箜</td><td>754</td><td>治抵置詼詭詬詢誅誂誄</td><td>827</td><td>鱠鱧鱶鱸鳧鳬鳰鴉鴈鳫</td></t<>	681	寬作筱筬筮箝箘箟箍箜	754	治抵置詼詭詬詢誅誂誄	827	鱠鱧鱶鱸鳧鳬鳰鴉鴈鳫
684         簇簓篳篷蒅窶篶竇醬         757         講説調響         調認調響         830         漏認認識認         調認認識認         調認認識認         調認認識認         調認認識認         調認認識認         調認認認認         調認認認認         調認認認認         調認認認認         調認認認認         調認認認認         調認認認認         調認認認認         調認認認認         調認認認認認         調認認認認         調認認認認認         調認認認認認         調認認認認認         調認認認認認         調認認認認認認         調認認認認認         調認認認認認認         調認認認認認認         調認認認認認         調認認認認認認         調認認認認認認認         調認認認認認認認         調認認認認認認認認認認認認認認         調認認認認認認認認認認認認認認         調認認認認認認認認認         調認認認認認認認         調認認認認認認         調認認認認認認認認認認認認認認認認         調認認認認認認認認認認認認認認認認認認認認認認認認認認認認認認認認認認認認	682		755 756	海滅 社 話 誦 誚 挫 冔 諍 蹈 旋 蓮 諳 諧 諤 達 謔 讀 諢 駉	828 829	駅 陽
b85 <ul> <li></li></ul>	684	族簓篳篷簗窶篶簀簧簪	757	漏 <b>訳</b> 哥書論論 器 證 謗 謠	830	鵝鵞鵤鵑鵐鵙鵲鶉鶇
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091       約十 ## # # # # # # # # # # # # # # # # #	690	新 版 批 紊 絅 紘 紮 紲 紿	763	<b>狸貎貔豼貘戝貭貪貽貲</b>	836	點黥黨黯黴黶黷黹黻黼
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054   潮和林椒椒樹樹 離 離 101   山 広 伽 斷 凸 広 政 脚 起 民 840   羌 倶 遙 塔 凜 照	693	緇綽綫總網網縣綸綟綰	766	賍贔贖赧赭赱赳趁趙跂	839	齲齶龕龜龠 毒 塢 溪 讴 遠 四
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