



SH-02C

INSTRUCTION MANUAL '10.11

docomo STYLE series

DOCOMO W-CDMA, GSM/GPRS System

Thank you for purchasing “docomo STYLE series SH-02C”. Before use of SH-02C, make sure that you read this manual to ensure proper operation.

Explanation for operation of SH-02C

Other than this manual, “Guide” (contained in the FOMA terminal) or “Manual (detailed edition)” (PDF file) explains how to operate SH-02C.

■ “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-02C 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.

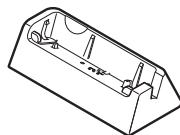
Basic package



SH-02C terminal
(includes warranty and Back Cover SH45)



Battery Pack SH23



Desktop Holder SH32



Manual (Japanese version)



SH-02C CD-ROM

- For details on optional parts compatible with the FOMA terminal
☎ P. 88

- The explanations in this manual are based on the case when Kisekai tool is set for the handset color “green”.
- The screens and illustrations in this manual are shown as examples. The actual screens and illustrations may differ.
- Note that “SH-02C” 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 and GSM/GPRS 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-02C

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 your living area, current location, or hobbies and diversions.

Guide (in Japanese only) P. 31

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. 62

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) P. 31

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.

Waterproof/Dust-proof function P. 17

The FOMA terminal is waterproof and dust-proof. You can call or watch 1Seg programs in the rain, in a bathroom, at a poolside, etc. Also, rinse off dirt from the FOMA terminal with tap water.

Deco-mail P. 51

The FOMA terminal supports Auto-Decome, a function to enter pictograms or Deco-mail pictograms by predicting from the text, and Font change, a function to change a font.

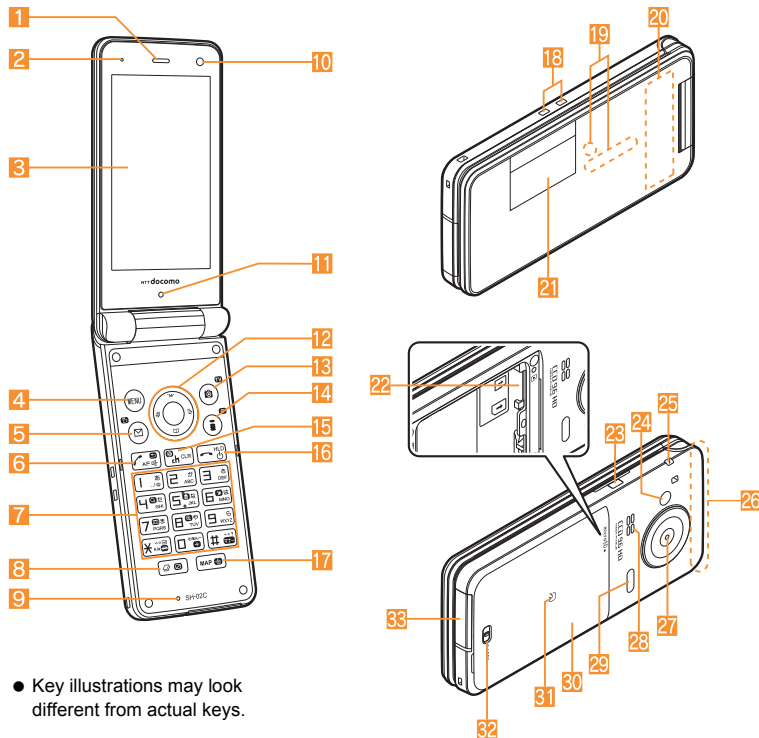
Highly-functional camera P. 63

The FOMA terminal has built-in highly-functional camera offering approximately 9.60 million effective pixels (Recorded pixels: approximately 9.50 million pixels).

Night Swing Talk P. 78

Enter characters and quickly shake the FOMA terminal. You can float entered characters in the dark place.

Part Names and Functions



- Key illustrations may look different from actual keys.

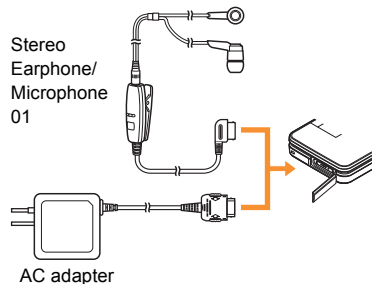
Using earphone

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.



1 Earpiece**2 Air vent**

- This is a vent for taking any remaining air out of the FOMA terminal.

3 Main display (P. 27)**4 MENU: MENU/Operation guidance key (P. 30, P. 36)****5 Mail: Mail/Operation guidance key (P. 30, P. 51)****6 Start/Hands-free key (P. 44)****7 1 to 9, *, 0 and #: Dial/Character entry keys****8 Multi/VeilView key (P. 36)****9 Mouthpiece/Microphone****10 Sub camera**

- Use to shoot a still/moving picture of yourself.

11 Brightness sensor

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

12 Multi-guide key (P. 30)**13 Camera/TV/Operation guidance key (P. 30, P. 63, P. 68)****14 i-mode/Operation guidance key (P. 30, P. 57)****15 CLR (CH): i-Channel/Clear key (P. 60)**

- Display the channel list.
- Return to the previous screen.

16 Power/End key (P. 26)

- 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.

17 MAP/GPS key

- Activates GPS compatible i-appli.
- Checks your present location.

18 Charger terminal (P. 24)

- Use for charging with the accompanying desktop holder.

19 Called/Charging LED

- Flashes while receiving a call.
- Illuminates while charging.
- Illuminates/Flashes while activating the camera or when shooting, etc.

20 1Seg antenna

- 1Seg antenna is built in.

21 Sub display (P. 29)**22 microSD Card slot (P. 80)****23 Side key (P. 39)**

- Use to shoot still pictures or moving pictures.

24 Picture Light

- Flashes/Illuminates while activating the camera/shooting.

25 Strap hole**26 FOMA antenna**

- FOMA antenna is built in.

27 Main camera

- Use to shoot still pictures or moving pictures.

28 Speaker**29 Infrared port (P. 81)****30 Back cover (P. 18)**

- A radio frequency-preventing sticker is attached on the back of the back cover. Do not peel off this sticker.




31 mark (P. 75, P. 81)**32 Back cover lever (P. 18)****33 External connector terminal**

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







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".
 Warning	This symbol indicates that "death or serious bodily injury may result from improper use".
 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).
 Unplug	Indicates that the power cord must be unplugged from the outlet.

"Precautions" is explained in the following six sections.

- Handling the FOMA terminal, battery pack, adapters, desktop holder, and UIM (general) P. 7
- Handling the FOMA terminal P. 8
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- Handling adapters and desktop holder P. 11
- Handling UIM P. 12
- Handling near electronic medical equipment. P. 12

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

Danger



Don't

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.



Don't

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

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



No disassembly

Do not attempt to disassemble or modify the equipment.


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



No liquids

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

May cause fires, burns, bodily injury or electric shock. Refer to the following for details on waterproofness.

 "Waterproof/Dust-proof function" on P. 17



Instruction

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.

Warning



Don't

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

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



Don't

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.



Don't

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

May cause fires or burns.



Instruction

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).



Instruction

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.

Caution



Don't

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

May fall and cause injury.



Don't

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

May cause fires, burns or electric shock.



Instruction

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.



Instruction

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

The FOMA terminal, battery pack or adapters may become warm if i-αpli, 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



Warning



Don't

Do not aim the infrared port towards the eyes.

May cause eye injury.



Don't

Do not aim the infrared port towards home electric appliances with an infrared device during Ir communication.

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



Don't

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

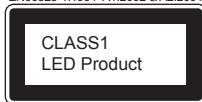
Do not use Picture Light near people's faces.

Eyesight 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 eyes when operations such as undirected adjustments are intentionally made. Therefore, do not disassemble the terminal.

EN60825-1:1994 A1:2002 & A2:2001



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.



Don't

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

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



Don't

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.



Instruction

Turn off the FOMA terminal in areas where the use of mobile 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.



Instruction

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.



Instruction

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.



Instruction

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.



Instruction

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 display part 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.



Caution



Don't

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

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



Don't

Do not use the damaged FOMA terminal.

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



Don't

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

May result in bodily injury.



Don't

If the display is broken and internal substances such as 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 internal substances such as liquid crystal come 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.



Instruction


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  "Material list" on P. 13



Instruction

Do not close the FOMA terminal on your fingers or objects such as the strap.

May result in bodily injury.



Instruction

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



Don't

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.



Don't

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.



Don't

Do not throw the battery pack into a fire.

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



Don't

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

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



Instruction

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

May result in loss of eyesight.



Warning



Don't

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.



Instruction

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.



Instruction

Prevent your pet from biting the battery pack.

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



Caution



Don't

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.



Don't

Do not use or charge a wet battery pack.

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



Instruction

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

May result in loss of eyesight and harm to your skin. If the liquid, etc. comes into contact with your eyes, 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 your eyes or mouth.

Handling adapters and desktop holder



Warning



Don't

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

May cause fires, burns or electric shock.



Don't

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

May cause fires, burns or electric shock.



Don't

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.



Don't

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.



Don't

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

May cause fires, burns or electric shock.



Don't

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.



No wet hands

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

May cause fires, burns or electric shock.



Instruction

Always use the specified power supply and voltage. 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)



Instruction

If the fuse in the DC adapter blows, always replace it with a 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 from the outlet or cigarette lighter socket. Do not forcibly pull by the adapter's cord.

Instruction

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.

Unplug

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.

Unplug

May cause fires, burns or electric shock.



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

Unplug

May cause fires, burns or electric shock.

Handling UIM



Caution



Be careful with the cutting surface when detaching the UIM.

Instruction

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 facilities.

Instruction

- 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.

Instruction

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



Instruction

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.



Instruction

Patients receiving medical treatment away from a hospital 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 of FOMA terminal	Display side	PC, PMMA resin/ Hard coating
	Back of display side	
	Keyboard side, Back of keyboard side	PA + GF45/UV coating
Camera ornament		PC resin/UV transfer
Camera window		PMMA resin/Hard coating
Hinge section		ABS resin/UV coating
Back cover	Back cover	PA + GF45/UV coating
	Lever	POM resin
	Gasket	EPDM/Low friction coating
	Radio frequency preventing sticker	IFL 12 (Magnetic powder + urethane resin)/PET
Cabinet ornament		ABS resin/UV coating
Picture Light		PC resin
Protective cover	Upper	PET resin/UV cured resin
	Lower	Urethane resin
Operation key (including ornament)		UV cured resin
Operation key base sheet		

PART		Material/Surface treatment
Side key		ABS resin/UV coating
External connector terminal	External connector terminal	SUS/Nickel plating
	Cover	PC resin, Elastomer resin/ UV coating
	Gasket	EPDM/Low friction coating
Infrared port		ABS resin
Charger terminal		SUS/Gold plating
microSD	Slot	ABS resin
Card slot	Inside slot	SUS
UIM tray		POM resin
Battery storage side		Glass epoxy resin
Battery storage section	Surrounding section of battery storage section	PA + GF45
	Screw	SUS/Passivation coating (Insulator coating)
Battery terminal	Battery terminal connector	LCP
	Battery terminal	Copper alloy/Gold plating
Battery pack	Battery pack	PC resin/Spark erosion
	Terminal section	Copper alloy/Full surface nickel with plating base, Gold plating

Handling Precautions

General notes

- **SH-02C is waterproof/dust-proof, however, do not allow water to seep or dust to get in the FOMA terminal and do not allow accessories or optional parts to get wet or do not allow dust to adhere.**

The battery pack, adapters and the UIM are not waterproof/dust-proof. 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

- **Avoid using the handset in extremely high or low temperatures.**
Use the FOMA terminal within the range of a temperature between 5°C and 40°C (for temperatures of 36°C or higher, such as in a room with a bath, limit usage to a short period of time) 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.

- **Do not close the FOMA terminal on strap, etc.**
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 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.
- **Do not cover the surface of the display or keys with an extremely thick sticker.**
May cause malfunction, damage or error.
- **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 or in 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.

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 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.

Waterproof/Dust-proof function

SH-02C is waterproof to IPX5 (former JIS protection code 5)*¹ and IPX7 (former JIS protection code 7)*² standards, and dust-proof to IP5X (JIS protection code 5)*³ standards if the external connector terminal cover is securely closed as well as the back cover is attached and locked.

- *1 IPX5 means that phone keeps functioning after being subjected to a jet flow (approximately 12.5 liters/min) discharged from a nozzle (inner diameter: 6.3 mm), from all directions (approximately 3 m from the handset) for 3 minutes or more.
- *2 IPX7 means that SH-02C phone keeps functioning after it is slowly submerged to depth of 1 m in static tap water at room temperature, left there for approximately 30 minutes and then taken out.
- *3 IP5X means the level of protection. Phone keeps functioning in safety after it is left in the device containing dust (diameter: 75 μ m or smaller) for 8 hours, agitated and then taken out.

What you can do with waterproof/dust-proof function of SH-02C

- You can call or watch 1Seg programs without using an umbrella in the rain (for rainfall of approximately 20 mm per hour).
- You can rinse off dirt from the FOMA terminal. Wash the FOMA terminal with low-pressure water flow (6 liters/min or lower and tap water at room temperature (between 5°C and 35°C)), holding it approximately 10 cm below faucet or shower head. Wash by using only your hands, not a brush or sponge, with the back cover attached and locked, and the external connector terminal cover held in position. Drain the handset before use (P. 21).

- You can use the FOMA terminal at a poolside. Do not throw water in a swimming pool on the FOMA terminal or soak the FOMA terminal in the water of a swimming pool.
- You can use the FOMA terminal in a bathroom. Do not soak the FOMA terminal in the bathtub.

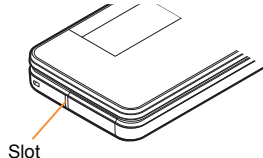
Things to keep in mind

To maintain waterproof/dust-proof performance, check the followings.

- Securely close the external connector terminal cover and the back cover. Be careful not to place too much force on the rubber gasket when opening and closing them.
- Make sure that the external connector terminal cover and the back cover are completely closed without floating.
- Before using, make sure that the back cover lever is at the LOCK position.
- To maintain waterproof/dust-proof performance, the FOMA terminal has the external connector terminal cover and the back cover that allow you to close securely. May cause injuries to your nails or fingers if you try to open them forcibly.

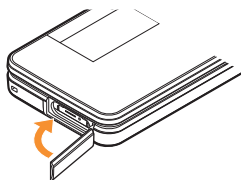
Opening external connector terminal cover

Hook a finger on the slot to open.



Closing external connector terminal cover

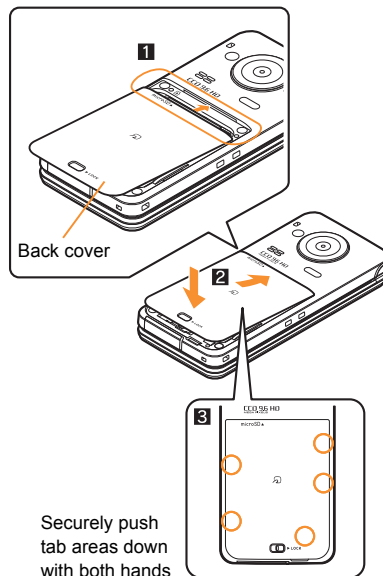
Push and close securely in the direction of the arrow so that gaps are not left between the FOMA terminal and the external connector terminal cover.



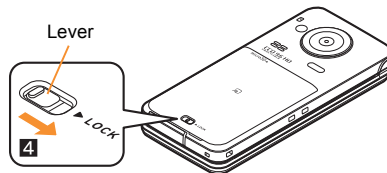
Attaching back cover

- 1** Insert the tab of the top of the back cover into the FOMA terminal slot (**1**), attach it in the direction of the arrow (**2**) and securely push down with both hands (**3**)

- The back of the back cover has also five tabs to insert the back cover. Securely push tab areas down with both hands so that gaps are not left between the FOMA terminal and the back cover.



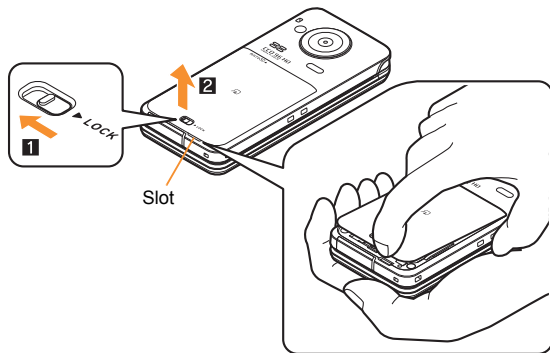
- 2** Slide the back cover lever in the direction of the arrow (**4**) to lock



Removing back cover

1 Slide the back cover lever in the direction of the arrow (1) to unlock and remove the back cover (2)

- The FOMA terminal has a slot to remove the back cover. Securely hold the FOMA terminal as shown in the illustration to prevent excessive force on the back cover and hook a nail on the slot and remove the back cover upward.



- To maintain waterproof/dust-proof performance, replacement of parts is required every 2 years regardless of whether the FOMA terminal appears normal or abnormal. DOCOMO replaces the parts as a chargeable service. Bring the FOMA terminal to a repair center that DOCOMO specifies.

Precautions

- When your hands or the FOMA terminal are wet, do not attach/remove the back cover or open/close the external connector terminal cover.
- Securely lock the back cover and close the external connector terminal cover. Even a fine obstacle (one hair, one grain of sand, tiny fiber, etc.) put between contact surfaces may allow water to seep or dust to get in.
- If the FOMA terminal gets wet with water or other liquids with the external connector terminal cover or the back cover open, the liquid may get inside the terminal causing electric shocks or malfunction. Stop using the FOMA terminal, turn off the power, remove the battery pack and contact a repair center that DOCOMO specifies.
- The rubber gasket of the external connector terminal cover and the back cover play an important role in maintaining waterproof/dust-proof performance. Do not remove or scratch them. Also, prevent dust from adhering to them. If the rubber gasket of the external connector terminal cover or the back cover is damaged or deformed, replace it at a repair center that DOCOMO specifies.
- Do not insert sharp objects through external connector terminal cover and back cover gaps. It causes damage to the rubber gasket and allow water to seep or dust to get in.
- If the back cover is damaged, replace it. Water may seep inside from a damaged section causing troubles such as electric shocks or corrosion of the battery.
- Do not use the FOMA terminal underwater (including opening/closing and key operations). May cause malfunction.
- Do not apply water flow stronger than allowed (参考 P. 17) (over 6 liters/min). May cause malfunction though SH-02C provides waterproof performance of IPX5.
- Do not let the FOMA terminal get wet with liquids other than water at room temperature (between 5°C and 35°C).

- Do not wash the FOMA terminal in a washing machine, etc.
- To prevent condensation, do not bring the FOMA terminal from a cold place to a bathroom, etc. without letting the FOMA terminal cool to room temperature.
- Do not expose the FOMA terminal to extreme humidity for long periods. Avoid prolonged use in bathrooms.
- Never soak the FOMA terminal in hot spring water or water containing soap, detergent or bath powder.
- Do not soak the FOMA terminal in hot water, use it in a sauna or apply hot air (from a hair dryer, etc.) to it.
- Do not soak the FOMA terminal in seawater.
- Do not put the FOMA terminal directly on sand/dirt.
- Do not leave the FOMA terminal wet. In cold places, water may freeze and cause malfunction.
- The FOMA terminal does not float on water.
- Do not let the FOMA terminal fall. It may become scratched and cause the waterproof/dust-proof performance to degrade.
- Do not leave water on the mouthpiece, earpiece or speaker. Such water may interfere with talking.

- Accessories and optional parts are not waterproof/dust-proof. When the FOMA terminal is placed on the accompanying desktop holder, do not use it in rooms which water is regularly in use such as bathroom, shower room, kitchen, lavatory, etc. even if it is not connected to the AC adapter.



Soap/Detergent/
Bath powder



Seawater



Swimming pool



Hot spring



Sand/Dirt

- DOCOMO does not guarantee actual operations under all states. Malfunctions deemed to be caused by inappropriate operation by the customer are not covered by the warranty.

Draining water when the FOMA terminal gets wet

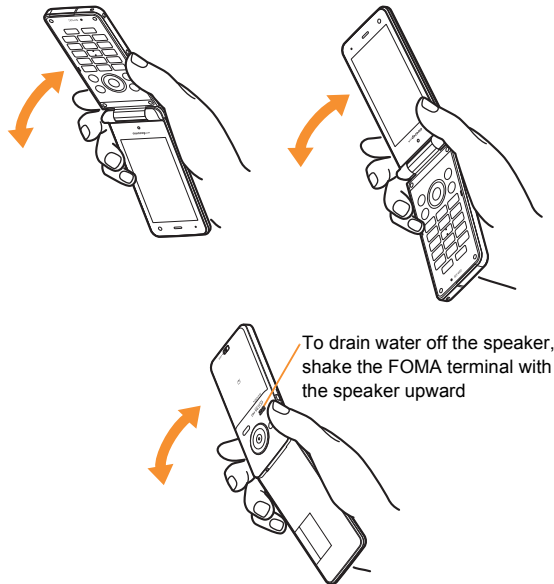
When the FOMA terminal is wet, water may flow out after wiping it off. Drain the water following the steps below.

1 Wipe the FOMA terminal surface with dry and clean cloth, etc.

- If a strap is attached, dry the strap well.

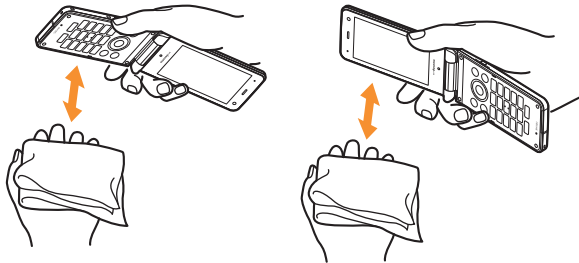


2 Shake the FOMA terminal approximately 20 times, securely holding its hinge section, until there is no more water splattering



3 Softly press dry and clean cloth, etc. against the FOMA terminal to wipe off water remaining in the mouthpiece, earpiece, speaker, keys, air vent or hinges

- Pat the opening with cloth to remove water because there may be any water remaining in the grooves of each part.



4 Wipe off water drained from the FOMA terminal with dry and clean cloth, etc.

- Water, if any, remaining in the FOMA terminal may ooze up after wiping off.

Charging

Accessories and optional parts are not waterproof/dust-proof. Check the followings before and after charging.

- Make sure that the FOMA terminal is not wet. If the FOMA terminal is wet or after the FOMA terminal is wet, adequately drain it and wipe off water with dry and clean cloth, etc. before placing on a desktop holder or opening the external connector terminal cover.
- When the external connector terminal cover is opened for charging, close the cover securely after charging. It is recommended that the desktop holder be used for charging to prevent water from seeping inside and dust from getting in from the external connector terminal cover.
- Never try to charge the battery pack when the FOMA terminal is wet.
- Do not touch the AC adapter or desktop holder with your wet hands. May cause electric shock.
- Do not use the AC adapter or desktop holder in a place subject to water. Do not use the AC adapter or desktop holder in rooms which water is regularly in use such as bathroom, shower room, kitchen, lavatory, etc. May cause fire or electric shock.

Before Using

Inserting UIM (FOMA card)

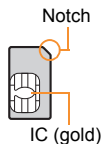
A UIM is an IC card that records personal information, such as phone numbers, etc.

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

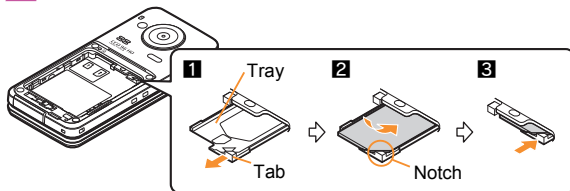
1 Hook a finger on the tab and pull out the tray (1)

- Pull out the tray straight until it stops.

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



3 Push the tray all the way in (3)



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

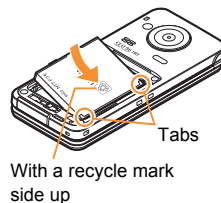
Attaching battery pack

- Perform with the FOMA terminal turned off and closed while holding with your both hands.
- The battery pack is not waterproof/dust-proof.

1 Remove the back cover (P. 19)

2 Attach the battery pack

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



3 Attach the back cover (P. 18)

- 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. May damage the waterproof/dust-proof performance and allow water to seep or dust to get in.

Charging

- It is recommended that the accompanying desktop holder be used for charging to prevent water from seeping or dust from getting in caused by forgetting to close the external connector terminal cover.
- The AC adapter and desktop holder are not waterproof/dust-proof. Never try to charge the battery pack when the FOMA terminal is wet. For precautions on the waterproof/dust-proof performance when charging, see P. 22.

Charging by using desktop holder

- Use with the FOMA terminal closed.

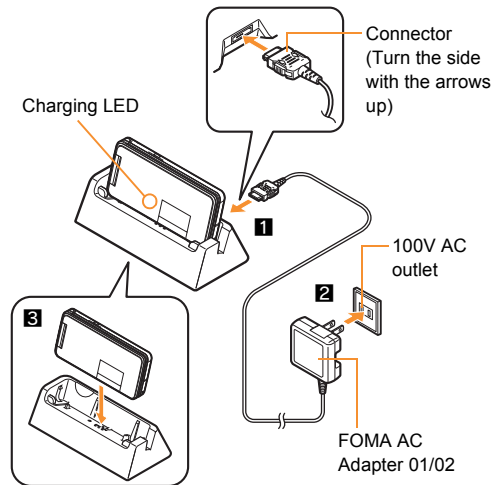
1 Turn the side with the arrows of the AC adapter connector up and insert it into the connector terminal of the desktop holder (1)

- Keep the connector parallel with the desktop holder and securely push all the way in until it clicks.

2 Insert the AC adapter power plug into an outlet (2)

3 When placing the FOMA terminal in the desktop holder, charge alert is heard, charging LED illuminates, and charging starts

- Place the FOMA terminal in the direction of the arrow until it clicks (3).



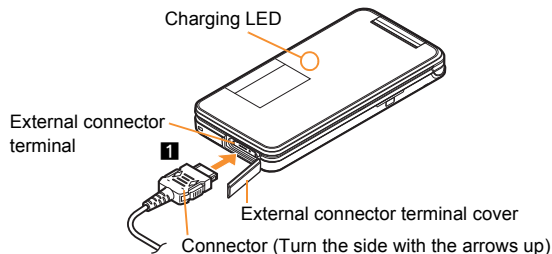
4 Charging is complete when charge alert is heard and charging LED turns off

- Hold the desktop holder, flip the FOMA terminal forward and lift it out.
- Pull the AC adapter out of the outlet when left unused for a long period of time.
- When charge alert is not heard or when charging LED does not illuminate, check that the FOMA terminal is placed securely in the desktop holder (except when terminal is turned off, manner mode is set or charge alert is [OFF]).
- When placing the FOMA terminal in the desktop holder, be careful not to catch a strap, etc.

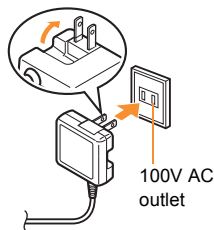
Charging by using AC adapter

- Read the user's guide of FOMA AC Adapter 01/02 (sold separately).

1 Open the external connector terminal cover and insert the AC adapter horizontally into the external connector terminal (1)

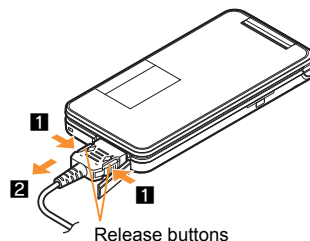


2 When inserting the AC adapter power plug into an outlet, charge alert is heard, charging LED illuminates, and charging starts





3 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.

Turning power on


- 1  (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

- 1 In the Normal menu, [本体設定] ▶ [文字表示/入力] ▶ [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.

- 1 [Date and time setting] ▶ set the date and time
- 2 [Password] ▶ register a terminal security code
- 3 [Keypad sound] ▶ set the key sound
- 4 [Text size] ▶ set the font size collectively
- 5 [Request permit/deny] ▶ set GPS location provision
- 6 

Checking your own phone number

- 1 In the Normal menu, [Profile]

Saving your own name and image

- 1 In the Normal menu, [Profile]
- 2  ▶ enter the terminal security code
- 3 Set each item ▶ 

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.

- 1 In stand-by,  ▶ [Mail setting] ▶ [Address/Spam Setting]
- 2 [Yes]

Screen Explanation

Viewing display



Icon display area

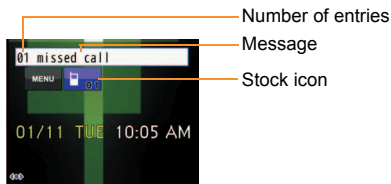
Main icons

	Battery level Full → 3/4 → 1/2 → 1/4 → Empty (High → Low)
	Signal status Full → 3/4 → 1/2 → 1/4 → No signal (Strong → Weak) ● When [Outside] appears, the handset is outside the service area or in a place with no signal.
	Hands-free
	GPS
	i-mode mail/SMS/Area Mail/Information received
	i-appli
	Alarm/Schedule
	Ir communication
	i-mode

	UIM error
	Self mode
	Music&Video Channel program reservation
	3G/GSM
	VeilView
	USB connection
	Record message
	Keypad dial lock
	Manner mode
	Silent/Vibrator
	Public mode (Drive mode)
	microSD Card
	Software update
	IC card lock
	Music&Video Channel
	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.



Main stock icon type

	xx missed call
	xx message
	xx voice mail
	xx mail message
MENU	Normal menu/Basic menu/Shortcut menu*

* The displayed message differs depending on the menu screen.

1 A stock icon appears in the stand-by display ▶

2 Select the stock icon

- The stock icon and message disappear after you check the details.

Display and operation of Stand-by accessory

Stand-by accessory allows you to perform functions by displaying accessory icons which are i-concier, MENU and camera to activate in the stand-by display.



1 i-concier button

2 MENU button

3 Camera launcher button

- Activates still picture shooting, moving picture shooting, Pretty arrange camera, Effect camera, Recommended photo, Shotmemo, Kanji/English Grabber, Golf swing video camera and Shotdeco.

Setting Stand-by accessory

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

2 Select the setting

Viewing sub display

The following shows a screen when Clock display is set to [Stand-by clock (S)] and Small clock function is set to [Steps/distance] in the Display setting of Sub-display setting (P. 36).

- Set Wellness display to [ON] to use Small clock function and Set pedometer to [ON] to use a pedometer.



Icon display area

Clock display

Function display

- Functions set to Small clock function in the Display setting of Sub-display setting appear.

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

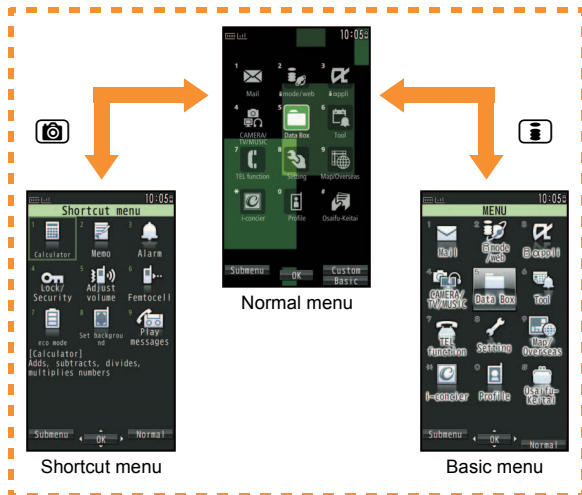
Press **MENU** in the stand-by display to display Normal menu, Basic menu and Shortcut menu.



Stand-by display

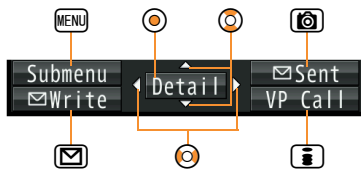


- You can change the menu which is displayed when you press **MENU** (P. 36).



Operation guidance key

Use to select or execute the menus displayed in the operation guidance. The following shows the keys assigned to select or execute the menu items displayed in the guidance.



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/ClrAll	Select/Disable all selectable items
Close	Close the submenu, etc.

Menu operation

- For details on the available functions P. 89
- The method for selecting functions may differ depending on the Kisekai Tool set for the Normal menu.

The way of activating alarm with Multi guide key is explained as an example below.



Selecting a function from submenu

When [Submenu] appears in the operation guidance, functions (submenu) that can be used in the screen appear by pressing . Select the displayed submenu with .

If there are multiple pages in submenu, change pages with .

Using Quick voice activation


※ 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.

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

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

- Speak approximately within 10 seconds. When you stop speaking, approximately 10 seconds past or you press , 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

※ 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.

1 In the Normal menu, [Tool] ▶ [Guide]

2 Select the item

Character Entry

Entering characters

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

- 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.

1 In the character entry screen,



Items to switch

2 Select the entry mode

漢	Kanji/Hiragana
ア	Double-byte katakana
7	Single-byte katakana
区	Kuten code
a	Double-byte alphabet characters (lower case → upper case)
a	Single-byte alphabet characters (lower case → upper case)
1	Double-byte numbers
_1	Single-byte numbers
A	Double-byte alphabet characters (upper case → lower case)
A	Single-byte alphabet characters (upper case → lower case)

Entering characters

Example: When entering “電話”

1 In the character entry screen, enter “でんわ”

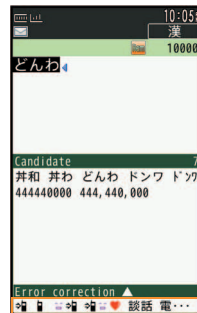
- でんわ: ㊼ (four times) ▶ ㊻ (once) ▶ ㊼ (three times) ▶ ㊼ (once)
- To enter multiple characters assigned to the same key: Enter a character ▶ ㊼ ▶ enter a character

2

3




Using error correction conversion

Error correction conversion field may appear under the conversion candidates field when entering wrong character which is assigned to the same key. Press ㊼ to display the corrected conversion candidate in the conversion candidates field.



Error correction conversion field

Entering pictograms/symbols

- 1** In the character entry screen, 
 - To switch between pictogram and Deco-mail pictogram: 
 - To switch between single- and double-byte symbols: 



- 2** Select a pictogram/symbol

Using phrases

- 1** In the character entry screen,  ► [Quote phrase/data] ► [Phrase]



- 2** Select a phrase

Entering emoticons

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

- 2** Select a category ► select an emoticon

Copying/Cutting characters

- 1** In the character entry screen,  ► [Copy]/[Cut]
 - For a mail message: In the character entry screen,  ► [Copy/Cut/etc.] ► [Copy]/[Cut]

- 2** Select the start position

- 3** Select the end position
 - The highlighted text string is copied.

Pasting characters

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

Sound/Screen Setting

Changing ring tone

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

2 Select an item


- ◆ [Call ring tone] ▶ select an item
- ◆ [Videophone]
- ◆ [Mail] ▶ select an item

3 Set each item ▶ 

Changing ring tone volume

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

2 Select an item

- ◆ [Alert/Call volume] ▶ select an item ▶ 
- ◆ [Mail/Msg. alert vol] ▶ 

Changing keypad sound volume

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

2 [Operation sound] ▶ 

Setting vibrator

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

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

2 Select an item

3 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 the Personalized, the dedicated alarm tone (beep sound) also sounds.
 - Keypad sound ■ Call alert volume ■ Mail alert volume
 - Alarm sound ■ Low battery alert

1 In the Normal menu, [Setting] ▶ [Sound/Vibration/Manner] ▶ [Silent mode]

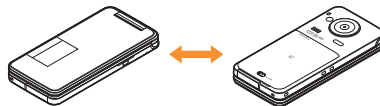
2 Select a type

- ◆ [General]
- ◆ [Personalized] ▶ set each item ▶ 
- ◆ [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, or timer sound, etc. temporarily by turning the FOMA terminal back.

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



Using motion silent

1 In the Normal menu, [Setting] ▶ [Sound/Vibration/Manner] ▶ [Motion silent]

2 Select the setting

Changing screen setting

Changing main display

1 In the Normal menu, [Setting] ▶ [Screen/Display] ▶ [Stand-by display setting] ▶ [Image/i-appli]

2 Select an item

Changing sub display


1 In the Normal menu, [Setting] ▶ [Screen/Display] ▶ [Sub-display setting]

2 [Display setting] ▶ set each 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.


1  (for at least 1 second)

-  appears when VeilView is set.

Disabling VeilView

-  (for at least 1 second)

Changing menu display

You can set the start menu which is displayed when you press  in the stand-by display.

1 In the Normal menu, [Setting] ▶ [Screen/Display] ▶ [Menu preference]

2 [Select startup menu] ▶ select a menu

Changing font size

1 In the Normal menu, [Setting] ▶ [Text display/input] ▶ [Font size]

2 Select an item ▶ select the font size

Changing Machi-chara setting

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

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

2 [Display setting] ▶ set each item ▶ 

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.

1 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.

1 In the Normal menu, [Setting] ▶ [Screen/Display] ▶ [Kisekae Tool setting]

2 Point the cursor to Kisekae tool ▶  ▶ [Yes]

- To check data: Select Kisekae tool (to display data list screen in Kisekae tool) ▶ select data
 - For the voice called LED, videophone called LED, mail/message LED, or open/close LED, you can check the LED color and flashing pattern by selecting data.

Setting illumination

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


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




Checking missed calls or new mails

- 1 In the Normal menu, [Setting] ▶ [Screen/Display] ▶ [Each display setting]
- 2 [Info display & light] ▶ select an item
 - Following items can be set.
 - **Caller/Sender info**: Set whether to display phone numbers or names registered in phonebook when receiving a call or mail.
 - **Indicator light**: LED flashes at approximately 4-second intervals and notify you of missed calls and new mails.

Setting eco mode

- 1 In the Normal menu, [Setting] ▶ [Battery] ▶ [eco mode]
 -  appears when eco mode is set.

Alternatively,  (for at least 1 second) in the stand-by display to set.






Setting light of display and keypad


Set light of display and keypad.

1 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] ▶ 
 - You can select from five display brightness levels. Check brightness with adjusting.
 - ON/OFF of Brightness sensor: 
 - The display brightness is automatically adjusted according to the surrounding light if you use brightness sensor.
- ◆ [Keypad backlight] ▶ select the setting ▶ 

Setting function to activate by pressing side key for at least 1 second

You can set the function to activate from still picture shooting, Simulated call and Picture Light, by pressing  for at least 1 second with the FOMA terminal closed.

1 In the Normal menu, [Setting] ▶ [Other setting] ▶ [Side key shortcut]

2 Select the setting

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

- 1 In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Change security code] ▶ enter the current terminal security code
- 2 Enter the new terminal security code
- 3 Enter the new terminal security code again
- 4 

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

- 1 In stand-by,  ▶ [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 マイメニュー (My menu), or subscribe/cancel message services and charged i-mode services (Additionally, information providers may set their own passwords).

Changing i-mode password

- 1 In stand-by,  ▶ [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 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 four- to eight-digit security code that is entered for performing operations such as resetting total call cost or 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

- 1 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 ▶ 
 - 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 ▶ 
- ◆ [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	Prevents all operations other than power on/off and answering calls/videophone calls. <ul style="list-style-type: none"> ● Enable: In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Lock settings] ▶ [All lock] ▶ enter the terminal security code ● Disable: In stand-by, enter the terminal security code
Omakase Lock	Omakase Lock is a service to lock the personal data and IC card functions in case of loss, etc. by only your request to DOCOMO via phone. Set/Release Omakase Lock  0120-524-360 Office hours: 24 hours (in Japanese only) (open all year round) ※ Unavailable from part of IP phones. <ul style="list-style-type: none"> ● Omakase Lock can also be set/released from the My docomo website using PCs. ● Refer to "Mobile Phone User's Guide [Basic Usage]" for details on Omakase Lock.
Self mode	Prevents communication such as calls, i-mode mails, i-mode, iC communication or Ir communication. <ul style="list-style-type: none"> ● 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. <ul style="list-style-type: none"> ● 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	Prevents calls or i-mode mails/SMS to a number not saved in the phonebook. <ul style="list-style-type: none"> ● Enable/Disable: In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Keypad dial lock] ▶ enter the terminal security code ▶ select the setting
AutoKeyLock	Prevents key operation automatically when the FOMA terminal is closed or set time passed after the display disappeared. <ul style="list-style-type: none"> ● Enable/Disable: In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Lock settings] ▶ [AutoKeyLock] ▶ select a lock type ▶ enter the terminal security code ▶ set each item ▶  ● Disable Lock on close temporarily: Open the FOMA terminal and enter the terminal security code ● Disable Display off lock temporarily: Press any key to show the display ▶  ▶ enter the terminal security code
IC card lock	Locks to prevent the use of IC card functions. <ul style="list-style-type: none"> ● Enable: In stand-by,  (for at least 1 second) ▶ [Yes] ● Disable: In stand-by,  (for at least 1 second) ▶ enter the terminal security code
Side key lock	Locks the side key when the FOMA terminal is closed to prevent false operation. <ul style="list-style-type: none"> ● Enable/Disable: In stand-by,  (for at least 1 second) ▶ [Side key lock]

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 reason.

- The following are the types of non-disclosure reason.
 - User unset
 - Payphone
 - Unavailable

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

2 Select the reason

3 Set each item ▶ 

Rejecting a call from a caller unset in phonebook

1 In the Normal menu, [TEL function] ▶ [Dial/Receive call setting] ▶ [Reject/Accept call]

2 [Unregistered caller] ▶ enter the terminal security code ▶ select the setting

Resetting to default

Resetting various functions

- For items return to default by Reset  P. 89

1 In the Normal menu, [Setting] ▶ [Other setting] ▶ [Reset]

2 Enter the terminal security code

3 Select an item ▶  ▶ [Yes]

Deleting saved data all at once

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

- Protected data in the FOMA terminal is also deleted.

1 In the Normal menu, [Setting] ▶ [Other setting] ▶ [Delete all data]

2 Enter the terminal security code ▶ [Yes]

Call

Making a voice/videophone call

- DCOMO 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

1 In stand-by, enter a phone number

- Start with the area code.

2 (Phone)/ (V.phone)

Key operation during a voice call

- To enable/disable Triple Kukkiri Talk: 

3 to end the call

Making a call from phonebook

1 In stand-by,

2 Point the cursor to the name

3 (Phone)/ (V.phone)

Making a call with redials/received calls

1 In stand-by, (Redial)/ (Received calls)

2 Point the cursor to the phone number

3 (Phone)/ (V.phone)

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 call or videophone call.

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

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

2 [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.

1 In stand-by, enter “+” (for at least 1 second), the 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).

2 (Phone)/ (V.phone)

3 [Yes]

Receiving a voice/videophone call

1 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

2

3 to end a call

Adjusting earpiece volume

1 During a call,

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.

1 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

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

2 Select a message

3 [NO]

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 [■] (missed call) appears on the display and the call is saved in Received calls.

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

Disabling Public mode (Drive mode)

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

Setting Public mode (Power off)

If Public mode (Power off) is set, when a call is received with the power is 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.

1 In stand-by, [⊗] [2] [5] [2] [5] [1] ▶ [↗]

Disabling Public mode (Power off)

- In stand-by, [⊗] [2] [5] [2] [5] [0] ▶ [↗]

Using various network services

Service name	Subscription	Monthly fee
Voice Mail Service	Necessary	Fees apply
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

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

Setting Call waiting service

- 1 In the Normal menu, [TEL function] ▶ [Other network service] ▶ [Call waiting]
- 2 [Activate] ▶ [Yes] ▶ [OK]

Setting Call Forwarding Service

- 1 In the Normal menu, [TEL function] ▶ [Other network service] ▶ [Call forwarding]
- 2 [Activate] ▶ [Yes] ▶ [Yes] ▶ enter a phone number ▶  ▶ [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 and GSM/GPRS network service areas. In addition, this service is available in countries and regions supporting 3G 850 MHz. Check the available 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	GSM	GPRS
Voice call*1	○	○	○
Videophone*1	○	×	×
SMS*2	○	○	○
i-mode*3	○	×	○
i-mode mail	○	×	○
i-Channel*3, 4	○	×	○
i-concier*5	○	×	○
i-Widget*6	○	×	○
Packet transmission by connecting a PC	○	×	○
GPS position location*7	○	×	○


- *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.

1 In stand-by, enter "+" ( for at least 1 second), 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).

2  (Phone)/ (V.phone)

Making a call in country you stay


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



1 In stand-by, enter a phone number

2  (Phone) /  (V.phone)

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.

1 In stand-by, enter “+” ( for at least 1 second), country code “81” (Japan) and the other party’s mobile phone number excluding the first “0”

2  (Phone) /  (V.phone)



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 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

- 1 In stand-by,  ▶ [Compose message]
- 2 Select the TO field ▶ select an item
- 3 Select the SUB field ▶ enter a subject
- 4 [Message] ▶ enter a message
- 5 

Creating Deco-mail/Decome-Anime

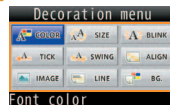
Creating Deco-mail

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.



- 1 In the message entry screen,  ▶ [Decorate mail]

- 2 Decorate



Palette

- 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.



- 1 In stand-by, [Envelope Icon] ▶ [Create new Decome-Anime] ▶ [Edit]
- 2 Point the cursor to the template ▶ [Camera Icon]
- 3 Select an edit item
 - ◆ [Pencil Icon] ▶ select an item ▶ edit
 - ◆ [Eraser Icon] ▶ edit
 - ◆ [Pencil Icon] ▶ [Select image] ▶ point the cursor to the image ▶ [Camera Icon]
- 4 [Camera Icon]

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.

- 1 In the compose message screen, [Auto-Decome] after entering message
- 2 Select a candidate
 - To temporarily save the conversion candidates: [Save Icon]
 - To return to the saved conversion candidate: [Load Icon]
 - To change the pattern of conversion: [MENU] ▶ [Pattern conversion] ▶ select the pattern of conversion
 - To change the place to enter pictograms: [MENU] ▶ [Insert pictogram] ▶ select the setting
 - To automatically change the font color/font size/background color: [MENU] ▶ select an item to convert ▶ select the setting
 - Pictograms are changed according to the set conversion items each time [Camera Icon] is pressed.

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.

1 In the compose message screen, [Mail Change] ▶ [Font change]

2 [Yes]

3 Select a candidate

- To select a font type:  ▶ select a font

Checking received i-mode mail

1 Receive i-mode mail automatically

2 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.

3 [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

1 In stand-by, 

2 Select BOX

3 Select a mail

Replying to i-mode mail

1 In the received mail details screen,  ▶ [Reply/Forward]

2 Select the reply method

3 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.


1 In stand-by,  ▶ [Check new mail/message]

Sorting i-mode mail

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

- 1 Point the cursor to the folder ▶  ▶ [Sort rules]
- 2 Select a number to save
- 3 Set the sort rules
- 4 Repeat steps 2 and 3 to set multiple sort rules
- 5 

Setting flag on mail

- 1 Point the cursor to the mail ▶  ▶ [Protection/Flag] ▶ [Flag ON]/[Flag OFF]
- 2 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

- 1 Receive Area Mail automatically
- 2 When Area Mail is received, the dedicated alarm tone (beep sound) or Area Mail dedicated ring tone sounds and 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

- 1 In stand-by,  ▶ [Mail setting] ▶ [Early warning “Area Mail” setting]
- 2 [Receive setting] ▶ select the setting

Using SMS

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

Sending SMS

- 1 In stand-by,  ► [Compose new SMS]
- 2 Select the TO field ► select an item
- 3 [Message] ► enter a message
- 4 

Checking received SMS

- 1 Receive SMS automatically
- 2 After reception, the receive complete screen appears and the SMS ring tone sounds
- 3 [Mail] ► select an SMS

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.

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

Adding entries from redials/received calls to phonebook

- 1 In stand-by,  (Redial)/ (Received calls)
- 2 Point the cursor to the phone number ▶  ▶ [Add] ▶ [Add to phonebook]
- 3 Add to phonebook

Editing phonebook entries

- 1 In stand-by,  ▶ point the cursor to the name ▶  ▶ [Edit/Settings] ▶ [Edit]
- 2 Edit the phonebook ▶ 
- 3 Add to phonebook
 - ◆ [Overwrite]
 - ◆ [New entry]

Deleting phonebook entries

- 1 In stand-by,  ▶ point the cursor to the name ▶  ▶ [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, files sent/received by mail (images/moving pictures/melodies, etc.), “Screen memos” or “Message R/F” etc. downloaded from sites, 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 or ring tone, etc. and a different UIM is inserted or the handset is turned on without a UIM, settings are reset to default.

- 1 In stand-by, 
- 2 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.

- 1 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

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

For Full Browser

- 1 While viewing sites with Full Browser, [MENU] ▶ [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

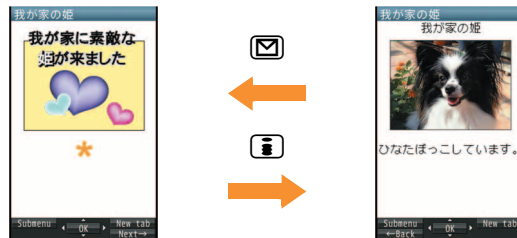
Normally, text string to which links are set appears in blue. A selected link is highlighted.

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

- 1 While viewing sites, select a link

Moving to previous/next page



The FOMA terminal saves sites you viewed. Press [Envelope]/[ID] 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 pressing [Envelope]. Likewise, when switching from Full Browser to i-mode, you can return to the page displayed with Full Browser by pressing [ID].

Saving frequently accessed sites

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

1 While viewing sites,  **[Bookmark]** 
[Add bookmark]

2 **[OK]**

3 **Select a folder**

Viewing sites from bookmarks

1 In the Normal menu, **[i-mode/web]** 
[Bookmark]

2 **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 add (save) screens from your favorite sites, etc. as screen memos to the FOMA terminal or microSD Card.


1 While viewing sites,  **[Screen Memo]** 
[Save screen memo]

2 **Select a save destination**  **[Yes]**

- The screen memo is added.
- To add the screen capture only: Select a save destination 
[Only displayed]

- Some screens may not be added 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

1 In the Normal menu, **[i-mode/web]** 
[Screen Memo]

2 **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.

Search

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.

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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-αppli and view the present location or specified location.

1 In the Normal menu, [Map/Overseas] ▶ [Map]

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

Using navigation

Activate GPS compatible i-αppli and use the navigation function.

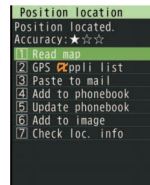
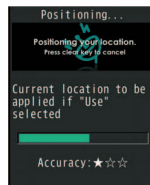
1 In the Normal menu, [Map/Overseas] ▶ [Navigation]

Checking present location

You can check your location by positioning the present location. You can use this function for displaying a map, etc. 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.

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



2 Select a usage

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-appli 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

- 1 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.

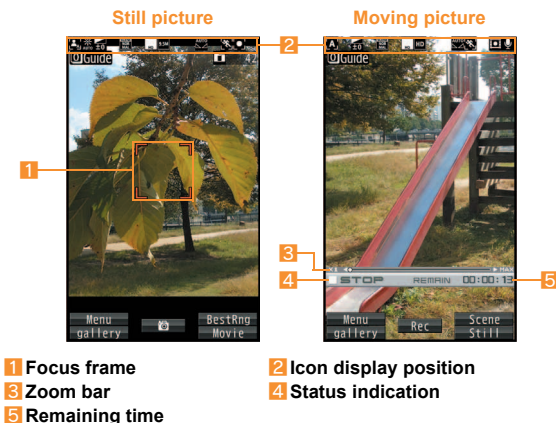
- 1 In the Normal menu, [Map/Overseas] ▶ [Map&GPS setting/history] ▶ [AUTO-GPS] ▶ [DOCOMO service set]
- 2 [ON] ▶ [OK]

Camera

It is possible to take a still picture and moving picture with the digital camera which supports Face recognition AF that can detect human, dog and cat face. In addition, it supports Kanji/English Grabber, Shotdeco, Shotmemo, etc.

Screen layout and operations for shooting screen

Shooting screen layout



Main key operations for shooting screen

Camera gallery	Ⓜ	Switch still/moving picture	Ⓜ
Adjust brightness	☉	Adjust zoom	☉
Focus lock	🔒	Switch camera-mode	1
Return to default	3	Fix camera shake	4
Select image quality	6	White balance	7
Auto timer	8	Other setting	9
Select save destination	✕	Activate operation guide	0
My camera	Ⓜ		

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

1 In stand-by,

- When still pictures shooting is activated, called LED illuminates and Picture Light flashes.

2 /□

- Shoot a still picture.

3 /□

- Save a still picture.

Closing the FOMA terminal and shooting quickly

Shoot a still picture quickly with using sub-display as a finder.

- Continuous AF is set to [ON].

1 With the FOMA terminal closed, □ (for at least 1 second)

2 □


- Shoot and save a still picture.
- Operate with the FOMA terminal opened to take a picture finely or to change the settings. However, the camera is terminated when the FOMA terminal is closed again.

Shooting moving pictures

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

- When moving pictures shooting is activated, called LED illuminates.

2 /□

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

3 /□ to end shooting


4 [Save]

Viewing still/moving pictures after shooting


Displaying shot still pictures

1 In the Normal menu, [Data Box] ▶ [My picture]

2 [Camera] folder ▶ select a still picture

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



Playing shot moving pictures

- 1** In the Normal menu, [Data Box] ▶ [i-motion/Movie]
- 2** [Camera] folder ▶ select a moving picture
 - To set as stand-by display, etc.: Point the cursor to the moving picture ▶  [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.

- 1** In the still picture shooting screen,  ▶  ▶ [Shooting menu] ▶ [ISO sensitivity]
- 2** Select the setting



Shoot by scene

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

- 1** In the shooting screen,  ▶  ▶ [Shooting menu] ▶ [Shoot by scene]
- 2** Select the mode





Focus setting

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

- 1** In the shooting screen,  ▶ 
- 2** Select an item

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.


- 1** In the still picture shooting screen,  ▶  ▶ [FaceReg]
- 2** [Save new]
- 3** Detect the face ▶  
 - Guide frame appears in red when a face is detected.
- 4** Set each item
- 5**  ▶ [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]

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

2 Select a type of effect

3  / 

- Shoot a still picture.

Multishot camera

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

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



2 Select the setting

3  / 

- The first still picture is shot and the following are shot automatically.

4 Save images

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

- To save an image: Select an image ▶  / 

For Recommended photo/Strobophoto

- To save displayed images only:  / 

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, 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.

Press  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 be 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.

Auto channel setting

Select a prefecture/district to use from preset information of broadcast stations of each area. Broadcast station is automatically searched and saved into the channel list.

- Perform Auto setting inside the area of a terrestrial digital TV broadcasting service.

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

- When the confirmation screen appears: [Yes] ▶ [Auto setting] ▶ [Yes] ▶ proceed to step 3

2 ▶ [Create] ▶ [Auto setting] ▶ [Yes]

3 Select a prefecture/district

4 [Yes]

Using preset

Select a prefecture/district to use from preset information of broadcast stations of each area and save into the channel list.

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

- When the confirmation screen appears: [Yes] ▶ [Use preset] ▶ proceed to step 3

2 ▶ [Create] ▶ [Use preset]


3 Select an area

4 Select a prefecture/district

5 [Yes]

Watching 1Seg

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

Alternatively, in the stand-by display,  (for at least 1 second) to activate 1Seg.



Screen layout and operations for watching screen

1Seg watching screen layout



- | | |
|----------------------------------|-------------------------|
| 1 Video | 2 Caption |
| 3 Data broadcasting | 4 Channel number |
| 5 Broadcast station/Program name | 6 Icon display position |

Main key operations for 1Seg watching screen

Video mode

Select a station with UP/DOWN	
Select a station with one-touch operation	

Select a station by searching a frequency	(for at least 1 second) / (for at least 1 second) ● To cancel selecting a station by searching a frequency:
Adjust volume	
Mute/Disable	
Turn caption settings on/off	(for at least 1 second)
Activate program guide i-appli	
Record a video of 1Seg program	(for at least 1 second) ● To stop recording:
Record 1Seg programs as a still picture	
Switch operation	

Setting timer for starting or recording 1Seg

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

Playing recorded videos

- 1 In the Normal menu, [Data Box] ▶ [1Seg]
- 2 [Video] folder ▶ select a video

Music

Handling the music data

- This manual refers to Chaku-uta full® and WMA (Windows Media® 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® 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*. When going abroad, deactivate the distribution of programs in advance.
 - * 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

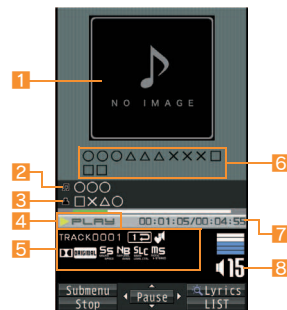
- 1 In the Normal menu, [CAMERA/TV/MUSIC] ▶ [Music&Video Channel] ▶ [Program setting]
- 2 Follow instructions on screen and set a program
 - [] appears in the stand-by display 12 hours before the program distribution.
The acquisition of the program is automatically performed at night. When the acquisition is successfully completed, the stock icon [] appears. When the acquisition is failed, [] appears. In this case, acquire the program manually.

Playing programs

- 1 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



- | | |
|-------------------------|-------------------|
| 1 Jacket image | 2 Title |
| 3 Artist's name | 4 Playback status |
| 5 Icon display position | 6 Uta-moji Lyrics |
| 7 Play time/Total time | 8 Volume |

Main key operations for MUSIC Player screen

Pause/Play	
Stop	
Adjust volume	
Mute/Disable	
Play previous song/Return to beginning of song*	
Fast reverse	(for at least 1 second)
Play next song	
Fast forward	(for at least 1 second)
Jump to a start position assigned to a key	1 : Beginning 2 to 9 : Positions divided by one-ninth increments of the total playback time

* Playback time is less than approximately 2 seconds: Play previous song
Playback time is approximately 2 seconds or more: Return to beginning of song

Downloading Chaku-uta full®

You can save Chaku-uta full® downloading from sites.

- You can download up to 5 MB Chaku-uta full®.

1 While viewing sites, select Chaku-uta full®

2 [Save] ► select a save destination

Playing music data

1 In the Normal menu, [Data Box] ► [MUSIC]

2 Select music data

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



i-αappli/i-Widget

Activating i-αappli

“i-αappli” 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-αappli.
- 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]

- Packet transmission charges are incurred when downloading.



QR code to connect to the site

1 In the Normal menu, [i-αappli] ▶ [Software list]

2 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.

1 In stand-by,

- i-Widget screen appears.

2 Select Widget Appli

3 /

- Widget Appli is pasted on the i-Widget screen.
- To end Widget Appli:  ▶ [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.

Type	Description
Standard type (can be saved*)	Play after downloading data.
	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.

1 While viewing sites, select i-motion

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

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.

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

1 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 built-in IC card and allows you to pay, use as coupons or collect stamps by simply holding the FOMA terminal over the scanning device at stores.






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.

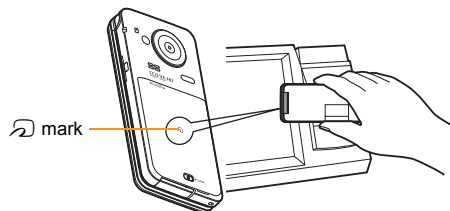
ToruCa is an electronic card that can be retrieved with Osaifu-Keitai. You can use ToruCa conveniently as fliers, restaurant cards, coupons, etc.

- 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  mark of the FOMA terminal over the scanning device to use as electronic money or railway tickets, or retrieve ToruCa.

- Pay attention to the following points when holding the  mark over the scanning device.
 - Avoid contact between the FOMA terminal and the scanning device
 - Hold the  mark parallel over the scanning device
 - Hold the  mark over the center of the scanning device
 - If the scanning device does not recognize, hold the  mark over the scanning device and move the handset around
 - Do not attach a metallic substance on the  mark side



i-concier

※ The i-concier service is provided in Japanese.

“i-concier” is a service to support your life like butler or concierge. It can keep your various data and timely provide contents of memo or schedule, and information tailored to your living area or 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

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

1 A popup message appears in the stand-by display ▶

2 Select a popup message



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Displaying i-concier screen

1 In the Normal menu, [i-concier]

2 Select the function icon

Convenient Tools



Using schedules

- Be sure to set the date and subject.


For Normal

- 1 In the Normal menu, [Tool] ▶ [Schedule] ▶  ▶ [New entry]
- 2 Set each item ▶ 

Using alarm

- 1 In the Normal menu, [Tool] ▶ [Alarm]
- 2 Select a number to save
- 3 Set each item ▶ 
 - To switch items: 

Using bar code reader

- 1 In the Normal menu, [CAMERA/TV/MUSIC] ▶ [Camera] ▶ [Scanning camera] ▶ [Bar code reader]
- 2 Display bar code to be scanned in the center of the screen ▶ 
 - 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

Using Night Swing Talk

Enter characters and quickly shake the FOMA terminal.
You can float entered characters in the dark place.

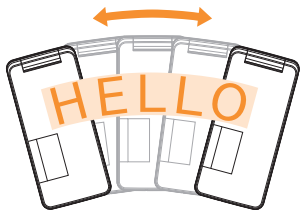
1 In the Normal menu, [Tool] ▶ [Night Swing Talk]

2  ▶ enter characters ▶ 

- Enter up to 10 double-byte characters.

3 Close the FOMA terminal and quickly shake to the left/right

- It will end in approximately 60 seconds after the FOMA terminal is closed. Picture Light illuminates for approximately 10 seconds after Night Swing Talk ends.



- Characters may not be seen well in the following cases.
 - When the shaking side and the watching side are too close
 - When the FOMA terminal is shaken overly fast or overly slow
- Viewability may change depending on the brightness of surroundings.

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-02C is compatible with commercially available microSD Card of up to 2 GB and microSDHC Card of up to 16 GB (as of October 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 October 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-02c/>

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

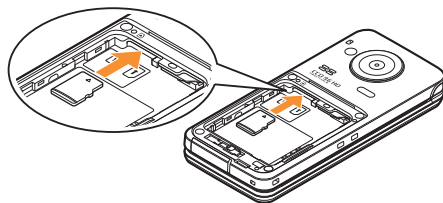
- Do not insert or remove a microSD Card while the FOMA terminal is on. Data may be damaged and operation may not work properly.
- Do not remove the microSD Card or turn off the FOMA terminal immediately after inserting the microSD Card to the FOMA terminal, or while editing data on a microSD Card. Data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

- When a microSD Card formatted with 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 with 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

1 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.

1 In the Normal menu, [Tool] ▶ [microSD] ▶



2 Enter the terminal security code ▶ [Yes]

Copying data to microSD Card/FOMA terminal

Example: i-motion

1 In the Normal menu, [Data Box] ▶ [i-motion/Movie] (▶ [→microSD])*

* When the save destination is microSD

2 Point the cursor to i-motion ▶ [MENU] ▶ [Move/Copy] ▶ [Copy to microSD]/[Copy to the phone]

3 Select the copying method

Backing up data to microSD Card

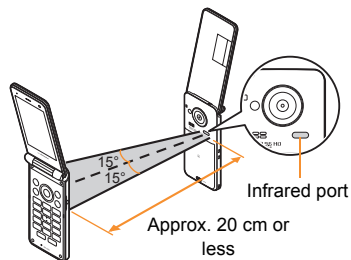
You can collectively backup data, such as phonebook or mail, and each setting information.

1 In the Normal menu, [Tool] ▶ [microSD] ▶ [Backup/Restore]

2 [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

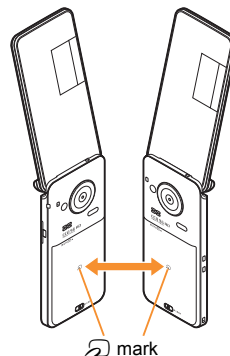
Example: Phonebook

- 1 In stand-by,
- 2 Point the cursor to the name [Send data] [Send Ir data]
- 3 Select the sending method
- 4 [Yes]

Receiving data

- 1 In the Normal menu, [Tool] [Infrared/iC communications] [Receive infrared data]
- 2 Select the receiving method
- 3 [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

- 1 In stand-by, 
- 2 Point the cursor to the name    [Send data]  [iC transmission]
- 3 Select the sending method
- 4 [Yes]
- 5 Place the  mark on that of the other party's FOMA terminal

Receiving data

- 1 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.

Support

Troubleshooting

- First, check whether the software update is required. If it is required, update the software (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. 23 |
| ● Make sure the battery has not run out. | — |

Charging

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

- | | |
|---|-------|
| ● Is the battery pack attached properly? | P. 23 |
| ● Is the adapter power plug inserted into the outlet or cigarette lighter socket properly? | P. 24 |
| ● Are the adapter and the FOMA terminal set properly? | P. 24 |
| ● When using the AC adapter (sold separately), is the connector of the AC adapter properly connected to the FOMA terminal or the accompanying desktop holder? | P. 24 |
| ● When using the desktop holder, make sure the charger terminal of the FOMA terminal is not dirty. If the terminal becomes dirty, clean it with a dry cotton swab. | P. 24 |
| ● 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. | — |

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 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. | — |

Not activated by pressing keys

- | | |
|--|-------|
| ● Make sure All lock is not set. | P. 42 |
| ● Make sure Side key lock is not set. | P. 42 |
| ● Make sure the FOMA terminal is not turned off. | P. 26 |

UIM does not recognize

- | | |
|---|-------|
| ● Is a UIM inserted facing right direction? | P. 23 |
| ● Make sure the UIM (blue) is not inserted. | P. 23 |

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.
- Make sure Keypad dial lock is not set.
- Make sure self mode is not set.

P. 42

P. 42

P. 42

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

- Turn the power on again, or attach the battery pack or UIM again.
- Depending on the signal type, even though status is “inside the service area” or “[無外] (indicating signal status) appears”, making/receiving a call may not be available. Move to another place and call again.
- Make sure Accept call from specified caller/Reject call from specified caller is not set.
- 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.

P. 23


P. 26

P. 27

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Osaifu-Keitai**Cannot use Osaifu-Keitai**

- If the battery pack is removed or Omakase Lock is activated, IC card functions are not available regardless of the IC card lock setting.
- Make sure IC card lock is not set.
- Is the  mark of the FOMA terminal held over the scanning device?

P. 42

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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 display 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), display, 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 display 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.
- 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
- This terminal is waterproof/dust-proof, however, if 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,  appears in the stand-by display.

1  appears in the stand-by display ▶
 ▶ select 

2 Select the rewriting method

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

Starting software update from menu

1 In the Normal menu, [Setting] ▶ [Other setting] ▶ [Software update]

2 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.

1 In the Normal menu, [Setting] ▶ [Lock/Security] ▶ [Scanning function] ▶ [Update]

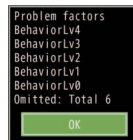
2 [Yes] ▶ [Yes]

3 [OK] when updating is completed

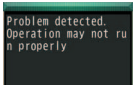
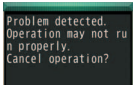
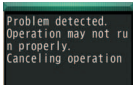
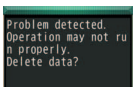
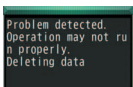
Displaying scanned results

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
		
[OK]: To display/activate/call	[No]: To display/activate/call [Yes]: To cancel operation	[OK]: To end
Level 3	Level 4	
		
[Yes]: To delete the data [No]: To end without deleting	[OK]: To delete the data	

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 SH23
- Back Cover SH45
- Desktop Holder SH32
- 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^{*2}
- Earphone/Microphone with Switch P001^{*2}/P002^{*2}
- Earphone/Microphone 01
- Stereo Earphone/Microphone 01
- Earphone Plug Adapter P001^{*3}
- Earphone Plug Adapter for External connector terminal 01
- Earphone Plug Adapter 01
- FOMA USB Cable^{*4}
- FOMA AC Adapter 01 for Global use^{*1}
- FOMA DC Adapter 01/02
- FOMA Indoor Booster Antenna^{*5}
- In-Car Hands-Free Kit 01^{*6}
- FOMA In-Car Hands-Free Cable 01
- In-Car Holder 01^{*7}
- FOMA Dry Battery Adapter 01
- Carry Case S 01

- Carry Case 02
- Bone conduction microphone/receiver 01^{*3}
- FOMA USB Cable with Charge Function 02^{*4}
- FOMA Portable Charging Adapter 01/02
- FOMA Indoor Booster Antenna (Stand Type)^{*5}

^{*1} Refer to P. 25 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 use/charge SH-02C.

^{*7} Activate Side key lock to use the In-Car Holder 01.

Appendix

Menu list

- When settings are reset by Reset (P. 43), 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 Kisekai 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	

Mail	
Decome-Item	Pattern conversion
	Font
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
Mail logs	SMS settings
	Early warning "Area Mail" setting
	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	
Access shortcuts	
i-mode/web setting	i-mode Browser Set.
	FB settings
	Common Settings
	Check i-mode setting
	Reset i-mode setting
Full Browser Home	

i-appli menu

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

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
	Hand mirror
	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

Data Box
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	
Quick launcher	Search functions
	Search phonebook
Night Swing Talk	
Simulated call	Run simulated call
	Calling timing set
	Setting when silent
Wellness	Check no. of steps
	Register profile
	Settings
	Workout
Help	

Tool	
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	
Download dictionary	
Common phrases/Store word	Common phrases
	Store word
Contact DOCOMO	ドコモ総合案内・受付
	ドコモ故障問合せ

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	
Voice mail service	Activate
	Ring time
	Deactivate
	Check setting
	Play messages
	Setting
	Check messages
	Tone/Vibration message notification
	Delete icon
	Setting for videophone

TEL function	
Other network service	Call forwarding
	Call waiting
	English guidance
	Remote access
	Multi Number
	Dual network
	Additional service
	OFFCEED

Setting menu

Setting	
Screen/Display	Kisekae Tool setting
	Stand-by display setting
	Color theme setting
	Display img quality
	VeilView
	Each display setting
	Sub-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
Backlight/Illumination	Machi-chara chat setting
	Display light
Text display/input	Light alert
	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
	Secret mode
	Privacy setting
	Caller/Sender info
	Keypad dial lock
	Call rejection setting
	Change security code
	UIM setting
	Scanning function
Battery	eco mode
	Auto eco mode
	Battery level
	Battery icon setting
	Icon% temp display
External connection	USB mode
	Femtocell
	Data exchange settings
Other setting	Self mode
	Initial setting
	Delete all data
	Reset
	Software update
	Check remote setting
	Memory status
Kisekae/Themes	Side key shortcut
	Style theme
	Timed theme

Map/Overseas menu

Map/Overseas	
Map	
Navigation	
imadoco search	imadoco kantan search imadoco search
i-area	
GPS appli list	
Position location/notify	Position location Notify location
Map&GPS setting/history	Loc. history
	Map setting
	GPS button setting
	Request permit/deny
	AUTO-GPS
	Positioning mode setting
	LCS clients list
	Service setting
	Service settings
Overseas network search	Light color/Alert
	3G/GSM setting
	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

Shortcut menu	
Shortcut menu	
Earpiece volume	
Videophone	
Manner mode	
Omakase Lock	
Side key lock	
Auto-Decome	
Text input	Set input method

Main specifications

Package

Product name			SH-02C
Size			Approx. 110 (H) × Approx. 50 (W) × Approx. 15.0 (D) mm (Approx. 16.0 mm at thickest point) (when folded)
Weight			Approx. 118 g (with battery pack attached)
Continuous talk time *1, 2	FOMA/3G		Voice call: Approx. 220 min Videophone: Approx. 110 min
	GSM		Voice call: Approx. 200 min
Continuous stand-by time*2, 3	FOMA/3G	3G/GSM setting: 3G	When mobile: Approx. 360 hr*4
		3G/GSM setting: AUTO	When mobile: Approx. 340 hr*4 At rest: Approx. 520 hr*5
	GSM		3G/GSM setting: AUTO
	1Seg watching time		
Charge time			AC adapter: Approx. 120 min
			DC adapter: Approx. 120 min
Display	Type	Main display: New Mobile ASV LCD 16,777,216 colors Sub display: Organic EL 65,536 colors	
	Size	Main display: Approx. 3.2 inches Sub display: Approx. 1.4 inches	
	Pixels	Main display: 409,920 pixels (480 × 854 dots) Sub display: 8,192 pixels (64 × 128 dots)	
Image pickup device	Type	Main camera: CCD*6 Sub camera: CMOS*6	
	Size	Main camera: 1/2.8 inches Sub camera: 1/8.2 inches	

Camera	Effective pixels	Main camera: Approx. 9.6 million pixels Sub camera: Approx. 0.43 million pixels
	Recorded pixels (Max.)	Main camera: Approx. 9.5 million pixels Sub camera: Approx. 0.41 million pixels
	Zoom (Digital)	Main camera: Up to approx. 22.2× Sub camera: Up to approx. 5.4×
Picture light source LED characteristics		a) Continuous illumination b) Wavelength White: 400-700 nm c) Maximum output White: 1.8 mW (inside FOMA terminal 0.62 mW)
Recording	Number of still pictures recorded	Approx. 1,500 shots ^{*7, 8}
		Approx. 60,000 shots (when saved in 2 GB microSD Card) ^{*7}
	Continuous shooting of still pictures	9.5M: 3 shots/5M: 3 shots/3M: 3 shots/ FullHD: 3 shots/Std-by: 8 shots/ VGA: 10 shots/QVGA: 40 shots/ QCIF: 40 shots
	File format for still picture	JPEG
	Recording time for moving picture	Approx. 26 min each ^{*9}
		Approx. 60 min each (when saved in 2 GB microSD Card) ^{*9}
Music playback	Continuous playback time	MP4
		i-motion: Approx. 400 min ^{*10} Chaku-uta full® (Compatible with background playback): Approx. 3,320 min ^{*10} WMA file (Compatible with background playback): Approx. 2,440 min ^{*11}
		Music&Video Channel (voice) (Compatible with background playback): Approx. 1,030 min
		Music&Video Channel (moving picture): Approx. 400 min
Memory capacity	Chaku-uta®	Approx. 168 MB ^{*12}
	Chaku-uta full®	

- "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 closed and 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 and activating downloaded i-appli or the i-appli 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 closed and in At rest, When mobile or Outside the service area status.
- *5 Continuous stand-by time is the average usage time when the FOMA terminal is closed when you are not moving and in a status where signals are received.
- *6 A CCD (Charge Coupled Device) and a CMOS (Complementary Metal-Oxide Semiconductor) are image devices 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-appli, e-book/e-dictionary/e-comic, Music&Video Channel, video or ToruCa are saved, the memory capacity of Chaku-uta®/Chaku-uta full® will be small.

Battery pack

Product name	Battery Pack SH23
Battery	Lithium-ion
Nominal voltage	3.7V DC
Nominal capacity	800 mAh

Estimated number of saved videos and recording time

	Number of entries	Recording time
FOMA terminal	Up to 99	Up to approx. 50 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 ³	—
Channel list		10	—
Music&Video channel program		22 ²	—
Music	Chaku-uta full®	56 ²	—
	Uta-moji Lyrics	100 ²	—
	Playlist	10	—
Schedule	Schedule	2,600 ^{2, 4}	—
	Vacation	30	—
	Holiday	5 ⁵	—
Memo		2,600 ⁶	—
Mail (The total number of SMS and i-mode mail)	Received mail	2,500 ^{2, 7, 8}	2,500
	Sent mail	500 ^{2, 7}	500
	Unsent mail	500 ²	500

Data type		Number of entries to be saved/registered	Number of entries to be protected
Area Mail		30	—
Deco-mail templates	Deco-mail	100 ⁸	—
	Decome-Anime	100 ⁸	—
Decome-Item	Pattern conversion	10	—
	Font	5	—
Message	Message R	50 ²	25
	Message F	50 ²	25
Bookmark		200	—
Screen memo		400 ²	400
Download dictionary		10 ⁹	—
i-αpli		100 ^{2, 8}	—
Image		3,000 ^{2, 8, 10}	—
Moving picture/i-motion		200 ^{2, 8}	—
Kisekae tool		50 ^{2, 8}	—
Machi-chara		50 ^{2, 8}	—
Chara-den		50 ^{2, 8}	—
Melody		500 ²	—
PDF data		100 ^{2, 8}	—
Word, Excel, PowerPoint		100	—
ToruCa		200 ²	—
e-book/e-dictionary/e-comic		1,000 ^{2, 8}	—
1Seg video		99 ²	—
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 Phone

This model SH-02C 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 0.725 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 October, 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 0.601 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 E 0168

Hereby, Sharp Telecommunications of Europe Ltd, declares that this SH-02C 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.
3. 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 0.759 W/kg and when worn on the body, as described in this user guide, is 0.502 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 APYHR000130.

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.

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- "CROSS YOU" is a trademark of Sony Corporation.
-  is a registered trademark of FeliCa Networks, Inc.
- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- FlashFX® Pro™ is a trademark or registered trademark of the Datalight, Inc. in the US.
(U.S. Patent Office 5,860,082/6,260,156)
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- This product utilizes Morpho Effect Library [PRETTY], a product of Morpho, Inc.
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- This product includes a face recognition engine FSE (Face Sensing Engine) provided by Oki Electric Industry Co., Ltd. 
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- iWnn of OMRON SOFTWARE Co., Ltd. is used for conversion methods for Japanese language, and for phrase prediction methods for English.
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Others

- F e l i c a is a contactless IC card technology developed by Sony Corporation. F e l i c a is a registered trademark of Sony Corporation.
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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)

From a PC My docomo (<http://www.mydocomo.com/>) ▶ 各種お申込・お手続き (Various Applications/Procedures) (in Japanese only)

- ※ 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.
- ※ You will need your "docomo ID/Password" to access the site from PC.
- ※ 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



モバイル・リサイクル・ネットワーク
携帯電話・PDA等のリサイクルにご協力。

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 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 land-line phones, etc.
- ※ Unavailable from part of IP phones.

- Please confirm the phone number before you dial.

- 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/>

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 for the country you stay -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-02C, you should dial the number +81-3-6832-6600 (to enter "+", press and hold the "0" key for at least one second).

From land-line phones

<Universal number>

Universal number international prefix -8000120-0151*

- * 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.

Repairs

(Business hours: 24 hours (open all year round))

■ From DOCOMO mobile phones ■ From land-line phones

(In Japanese only)

(In Japanese only)

☎ (No prefix) 113 (toll free)

☎ 0120-800-000 (toll free)

- ※ Unavailable from land-line phones, etc.

- ※ Unavailable from part of IP phones.

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

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* (toll free)

- * You are charged a call fee to Japan when calling from a land-line phone, etc.
- ※ If you use SH-02C, you should dial the number +81-3-6718-1414 (to enter "+", press and hold the "0" key for at least one second).

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.



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



To prevent damage to the environment, bring used battery packs to a docomo service counter, a docomo agent or a recycle center.

'10.11 (1st Edition)
10L MS112①

SH-02C

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-02C 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

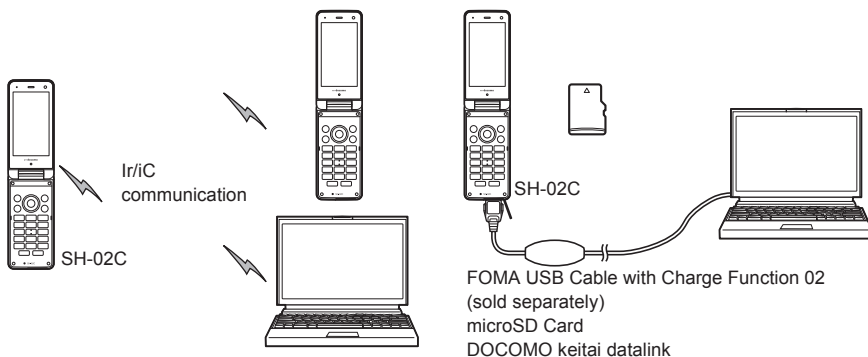
Data communication available for the FOMA terminal

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 sigmarionⅢ. 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™ 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 "sigmarionⅢ".

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) 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 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.

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.
- 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) Display resolution 800 × 600 dots or more and High Color 16 bits or more are recommended ● 1024 × 768 dots or more is recommended for DOCOMO Connection Manager
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-02C CD-ROM" (accessory)

- 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™ communication)

FOMA USB Cable with Charge Function 02 (sold separately) is required to install the FOMA communication configuration file.

Download and install the FOMA communication configuration file

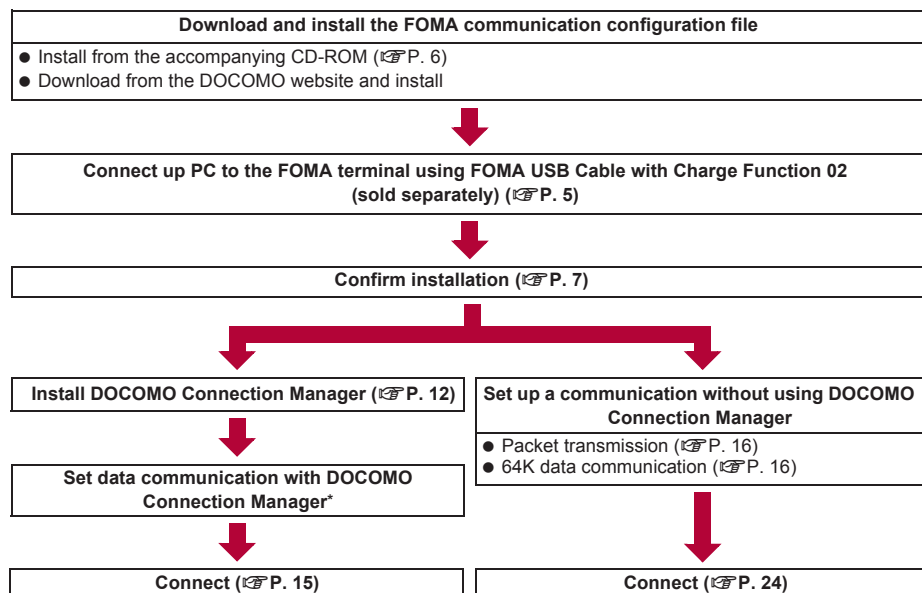
- Install from the accompanying CD-ROM (P. 6)
- Download from the DOCOMO website and install



Data transfer

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 (P. 6 to P. 9).

- If installation fails and [FOMA SH02C] 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 (P. 8) and install it again.
- If, for some reason, the PC is unable to recognize the FOMA terminal, uninstall the FOMA communication configuration file (P. 8) and install it again.

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 (P. 10).

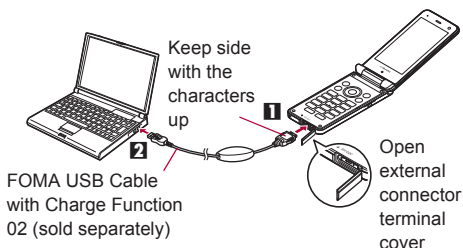
Connecting up PC to the FOMA terminal

Connect the FOMA terminal to your PC with both devices turned on. If the FOMA terminal is connected to your PC, [F] 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 (P. 6).

Connecting using FOMA USB Cable with Charge Function 02

1 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).

2 Insert the PC side of the FOMA USB Cable with Charge Function 02 into the PC USB connector (2).

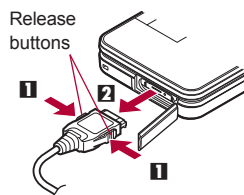


How to remove

1 Hold the release buttons on the FOMA terminal side of the FOMA USB Cable with Charge Function 02 (1), 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].
- Connecting the FOMA terminal while charging in the desktop holder is also possible.
- 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.

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.

1 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® 7 (64ビット版) 用] (For Windows® 7 (64 bit version)).

For Windows Vista (32 bit version)

- 1 Click [Windows Vista® (32ビット版) 用] (For Windows Vista® (32 bit version)).

For Windows Vista (64 bit version)

- 1 Click [Windows Vista® (64ビット版) 用] (For Windows Vista® (64 bit version)).

For Windows XP

- 1 Click [Windows® XP用] (For Windows® XP).

3 Double-click [SH_Setup.exe].

For Windows Vista and Windows XP

- 1 Double-click [SH02Cs.exe] and proceed to step 6.



4 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 ☐ appears instead, change to ☒.

5 When the setup complete screen appears, click [OK].

6 Click [インストール開始] (Start install).

7 Connect the FOMA terminal to your PC via FOMA USB Cable with Charge Function 02 when [FOMA SH02CとPCをFOMA USB接続ケーブルにて接続してください。] (Connect the FOMA SH02C 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 SH02Cドライバのインストールが完了しました。] (Installation of FOMA SH02C 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.

1 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.

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 [ハードウェア] (Hardware) tab.

2 Click [デバイスマネージャ] (Device manager).

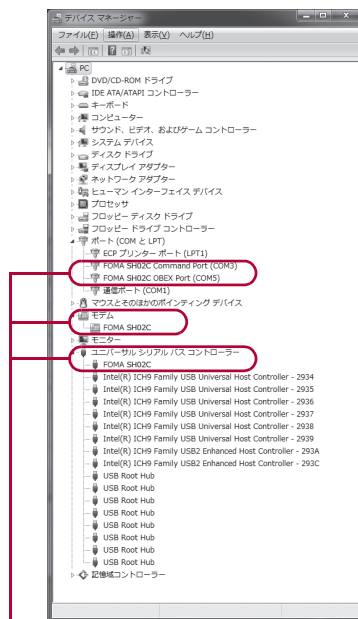
3 Click on each device, and confirm the name of the installed device.

Confirm that the names of all the installed devices are displayed for [ユニバーサル シリアル バス コントローラー] (Universal Serial Bus controllers), [ポート (COMとLPT)] (Ports (COM and LPT)) and [モデム] (Modems).

- The following drivers are installed when the FOMA communication configuration file is installed.

Device type	Device name
Universal Serial Bus controllers For Windows XP USB (Universal Serial Bus) controllers	● FOMA SH02C
Ports (COM and LPT)	● FOMA SH02C Command Port (COMx)* ● FOMA SH02C OBEX Port (COMx)*
Modem	● FOMA SH02C

* The "x" from "COMx" is a number and differs depending on the PC.



If recognized, they will appear in this manner.

- If installation fails or [FOMA SH02C] 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.

1 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.

2 Double-click [FOMA SH02C USB].

For Windows XP

- 1 Select [FOMA SH02C USB].
- 2 Click [変更と削除] (Change/Remove).

3 When [FOMA SH02C ドライバーのアンインストールを行います。] (Uninstall FOMA SH02C driver.) appears, click [はい] (Yes).

- Uninstallation of the FOMA communication configuration file begins.

4 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.

5 Delete device metadata (P. 9).

- If "FOMA SH02C 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 "SH02Cc.exe" in the ¥SH-02C_driver_win7_32¥Win7_32 folder* of the accompanying CD-ROM to uninstall.
 - * For Windows 7 (64 bit version): In the ¥SH-02C_driver_win7_64¥Win7_64 folder
 - For Windows Vista (32 bit version): In the ¥SH-02C_driver_vista32¥WinVista32 folder
 - For Windows Vista (64 bit version): In the ¥SH-02C_driver_vista64¥WinVista64 folder
 - For Windows XP: In the ¥SH-02C_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).

1 Perform steps 1 and 2 of "Installing FOMA communication configuration file (Driver)" on P. 6.

2 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 ☒.

4 When the uninstall complete screen appears, click [OK].

- Deletion of the device metadata finishes.

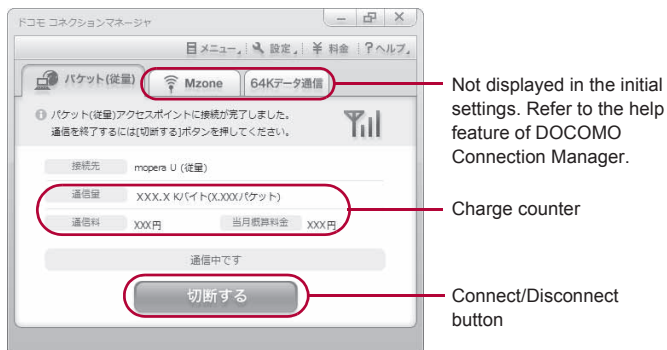
- When [プログラム互換性アシスタント] (Program Compatibility Assistant) appears, click [このプログラムは正しくインストールされました] (This program installed correctly).

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

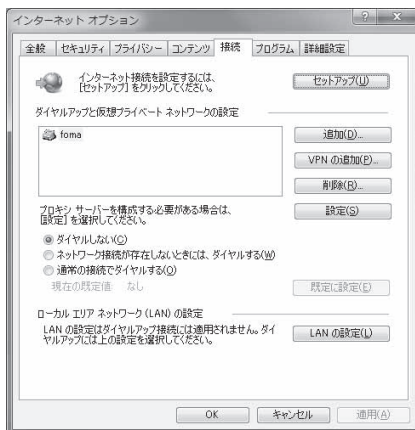
If the connection software other than DOCOMO Connection Manager is installed, change the setting as necessary not to activate automatically.

Refer to "Using the connection software other than DOCOMO Connection Manager" on P. 11.

Setting Internet Explorer

Before installing this software, set the connection setting to [ダイヤルしない] (No) on the internet option of Internet Explorer.

- 1 Activate Internet Explorer and click [ツール] (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].



1 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".

2 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.

1 Insert the accompanying CD-ROM into your PC.

- The initial screen appears.

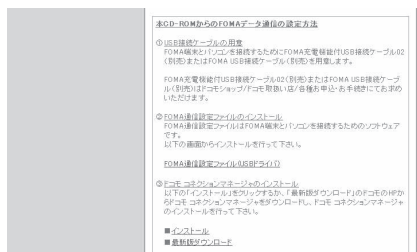


2 Click [インターネット接続] (Internet connection) ▶ [インストール] (Install) of [③ドコモ コネクションマネージャのインストール] (③ Install DOCOMO Connection Manager) in the [本CD-ROMからのFOMAデータ通信の設定方法] (Setting method for FOMA data communication using this CD-ROM) field.

- 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).



3 Click [はい] (Yes).

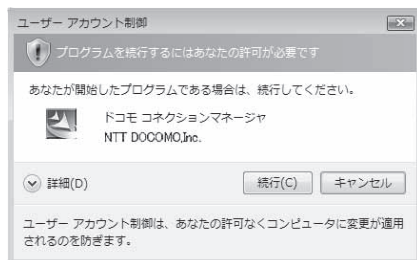


For Windows Vista

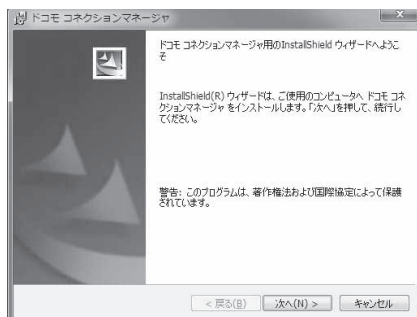
1 Click [続行] (Continue).

For Windows XP

- User Account Control screen does not appear. The setup program is activated soon.

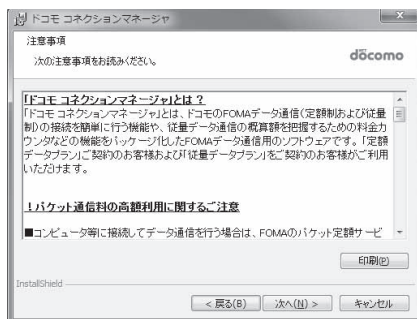


4 Click [次へ] (Next).



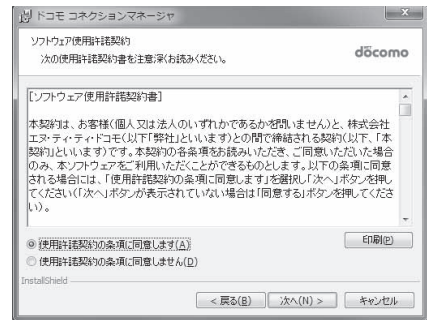
5 Confirm the content and click [次へ] (Next).

- The precaution appears. Make sure to confirm its content. Click [キャンセル] (Cancel) to cancel the installation.



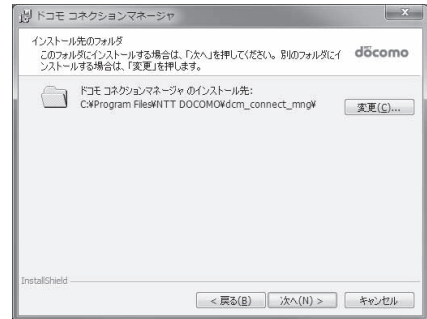
6 Read the licensing agreement and select [使用許諾契約の条項に同意します] (Agree to articles of the user licensing agreement) and then click [次へ] (Next) to agree.

- This is the user licensing agreement for DOCOMO Connection Manager. Click [キャンセル] (Cancel) to cancel the installation.



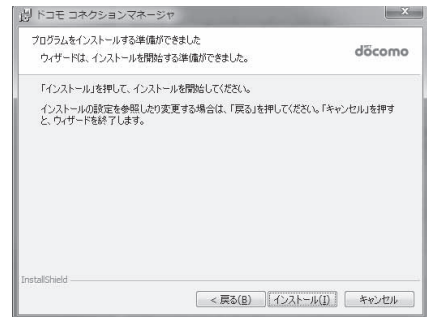
7 Confirm the destination program folder and click [次へ] (Next).

- To change the destination program folder, click [変更] (Change), select a destination for installation and click [次へ] (Next).



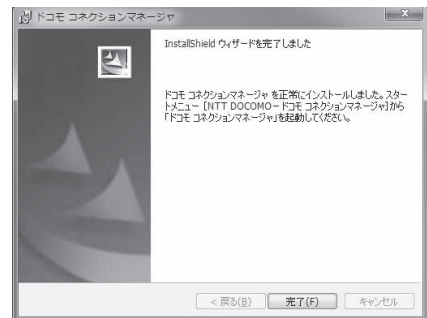
8 Click [インストール] (Install).

- Installation begins.



9 Click [完了] (Finish).

- Installation is completed.

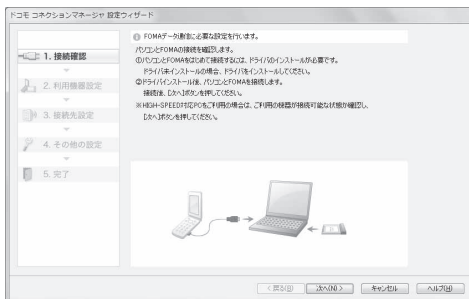


- For Windows XP, when MSXML6 and Wireless LAN API are not installed, their installation is required before installing DOCOMO Connection Manager. When confirmation screen appears, click [Install] and install MSXML6 and Wireless LAN API. Restart Windows after installation of MSXML6 and Wireless LAN API is completed, then installation of DOCOMO Connection Manager automatically begins.

Activating DOCOMO Connection Manager

- 1 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).

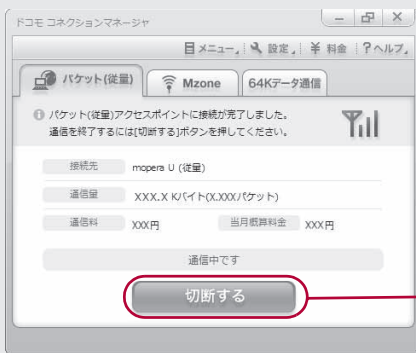
- When the software is activated for the first time, the setting wizard appear. Operate and make the setting according to the guidance from the software to prepare for the connection to the Internet. Refer to "DOCOMO Connection Manager operation manual.pdf" for details.



- 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.



Connect/Disconnect button

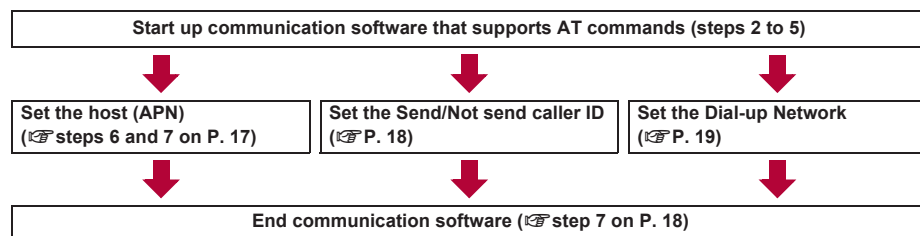
Set network transmission without using DOCOMO Connection Manager

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 (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 (P. 17). 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”). Save hosts (APN) to cid5 to 10.

- The registered cid is the connection number set in the dial-up connection settings.
- 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

- 1 **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.

3 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.



4 Select [FOMA SH02C] 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].

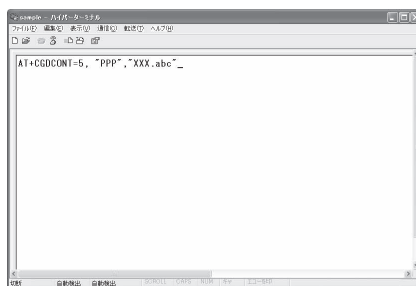
- For the area code, the default setting in Windows (such as [03]), appears. Set any number for the area code, since it is not related to the host (APN) setting.



5 When the connection screen appears, click [キャンセル] (Cancel).

6 Enter host (APN) and press [Enter].

- Enter host (APN) in the format:
AT+CGDCONT=<cid>,"<PDP_type>","APN"
([P. 31](#)).
 <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. 35 for details on AT commands.

When resetting APN settings using AT commands

- AT+CGDCONT= : To reset all the cids
- AT+CGDCONT=<cid> : 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.

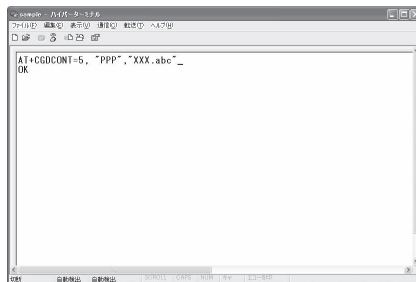
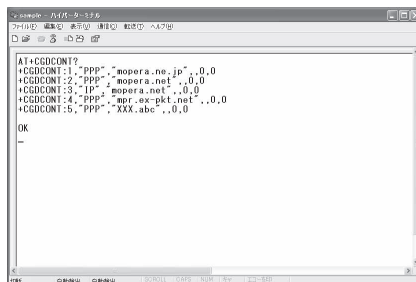
When confirming APN settings using AT commands

- AT+CGDCONT? 

Refer to P. 31 for details on AT commands.

7 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

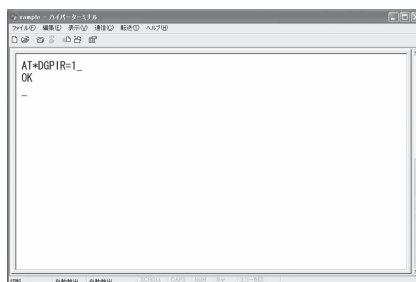
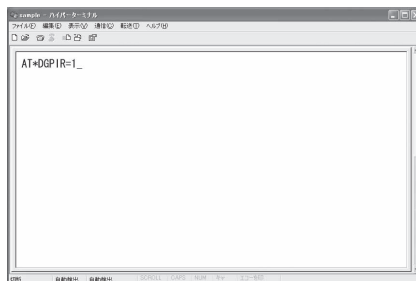
Handset number (Caller ID) is important personal information. Use caution when setting.

1 Follow steps 1 to 5 of “Setting host (APN)” on P. 16.

2 Set either Send caller ID (186) or Not send caller ID (184) during packet transmission.

- Enter in the format: “AT*DGPIR=<n>” (参照 P. 30).
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).

3 Confirm that [OK] appears.



■ 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)	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>#

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. 17).

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.

1 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.

2 Click [ネットワークとインターネット] (Network and Internet).

3 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

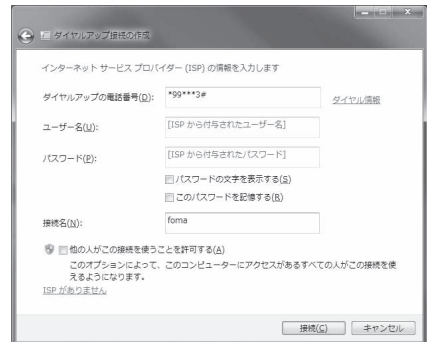
- 1 Click [接続またはネットワークをセットアップします] (Set up a connection or network).

5 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).

- 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 SH02C].
- The create a dial-up connection screen appears.

6 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.



7 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 [スキップ] (Skip) is not clicked, the network is connected to the Internet.

8 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).

9 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.

10 Click [ネットワークとインターネット] (Network and Internet).

11 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).

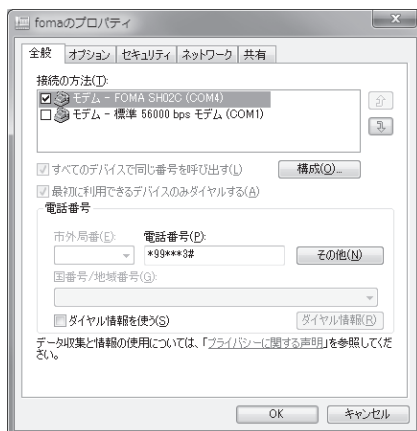
- The network connections screen appears.

12 Select and right-click the icon for host created and select [プロパティ] (Properties).

- Properties screen appears.

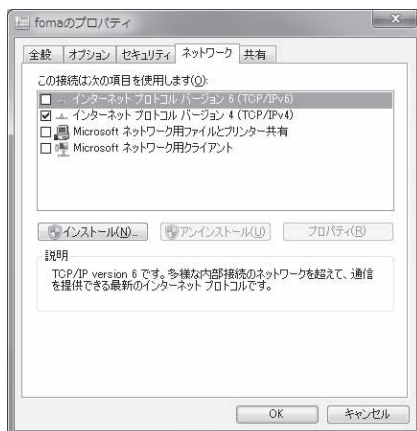
13 Confirm all the settings in the [全般] (General) tab.

- When two or more modems are connected to the PC, make sure that [FOMA SH02C] in [接続の方法] (Connection method) shows ☒. When ☐ appears instead, change to ☒. For modems other than [FOMA SH02C], 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.

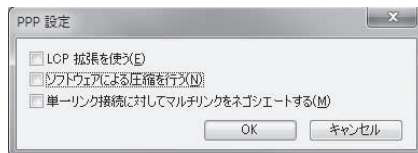


15 Click the [オプション] (Option) tab and click [PPP設定] (PPP setting).

- The PPP setting screen appears.

16 Check all options to show ☐ and click [OK].

- The option setting screen reappears.



17 Click [OK].

- The host and TCP/IP protocol are set.
- Refer to P. 24 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.

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).

- 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.

3 Click [次へ] (Next).

- The screen to select network connection type appears.

4 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.

5 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.

6 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).

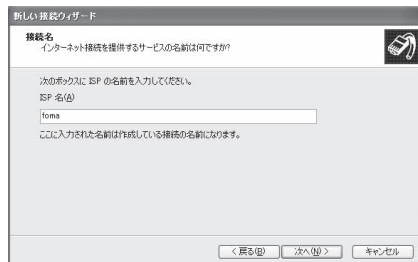
- A screen to specify the device appears.

7 Select [モデム - FOMA SH02C (COMx)] (Modem - FOMA SH02C (COMx)) and click [次へ] (Next).

- A number will replace “x”.
- The connection name screen appears.
- The screen appears only when multiple modems are installed.

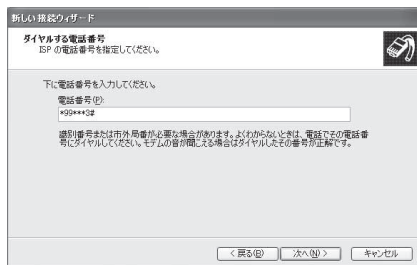
8 Enter a connection name in the [ISP名] (ISP name) field and click [次へ] (Next).

- The phone number to dial screen appears.
- The [ISP名] (ISP name) is the name of the Internet service provider.



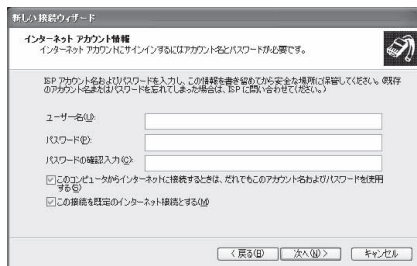
9 Enter the host number in the [電話番号] (Phone number) field and click [次へ] (Next).

- The Internet account information screen appears.
- To connect to <cid>=3 (mopera U), enter “*99**3#”.



10 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.



11 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.

12 Confirm the setting information and click [キャンセル] (Cancel).

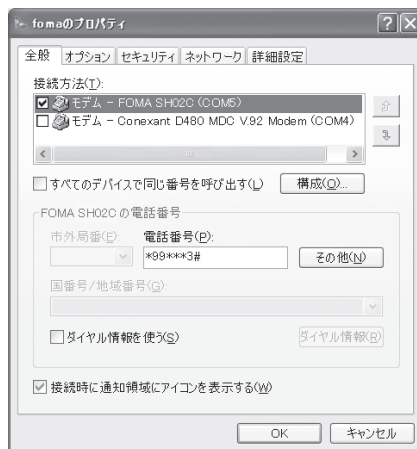
- Only confirming the settings without actually connecting.

13 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.

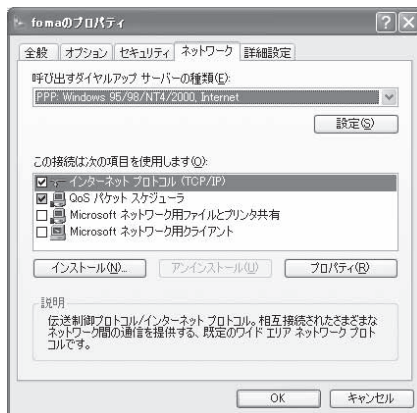
14 Confirm all the settings in the [全般] (General) tab.

- When two or more modems are connected to the PC, make sure that [FOMA SH02C] in [接続の方法] (Connection method) shows ☒. When ☐ appears instead, change to ☒. For modems other than [FOMA SH02C], change ☒ to ☐.
- Confirm that [ダイヤル情報を使う] (Use dialing rules) shows ☐. When ☒ appears instead, change to ☐.



15 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.



16 Check all options to show ☐ and click [OK].

- Properties screen of the host reappears.



17 Click [OK] on the [プロパティ] (Properties) screen.

- The host and TCP/IP protocol are set.
- Refer to P. 24 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.

1 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.

3 Click [ネットワークとインターネット] (Network and Internet).

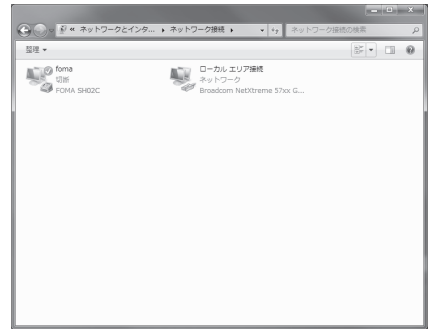
4 Click [ネットワークと共有センター] (Network and sharing center).

5 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.

6 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.



7 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" (図 P. 19) 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.



■ Disconnecting

Simply closing the browser may not disconnect the connection. Follow the steps below to properly disconnect.

1 Click [] 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 [] in the task tray and click [切断] (Disconnect).

Sending and receiving data (OBEX™ communication)

Sending/Receiving FOMA terminal data to/from a PC

- The FOMA terminal has OBEX™ 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™ 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, [圏外] (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. Charging the FOMA terminal in the desktop holder during data communication is recommended.
- 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-appli 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

Devices required for data communication (OBEX™ communication)

- To perform data communication, downloading data transfer software complied with OBEX™ 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 (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™ communication) function complies with IrMC™ 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™ 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.

1 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.

1 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).

3 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. Charging the FOMA terminal in the desktop holder during data communication is recommended.
- 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 SH02C 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 [M]	Displays FOMA terminal version.*2	—	AT%V  Ver1.00 OK
AT+C<n> [M]	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
AT+D<n> [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]	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  OK
AT+F<n> [M]	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.*2	Can only be set as n=0 (can be omitted)	AT+F  OK
AT+S<n> [M]	Controls when the signal of data set ready (DR) is set to DTE.*1	n=0 : Always ON (default setting) n=1 : DR signal ON when line is connected	AT+S0  OK
AT+W<n> [M]	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 [M]	Displays the reception status of the FOMA terminal.*2	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 1 : Status where zero or one antenna appears on the FOMA terminal 2 : Status where two antennas appears on the FOMA terminal 3 : Status where three antennas appears on the FOMA terminal	AT* DANTE  *DANTE:3 OK
AT*DGANSM=<n> [M]	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 OK

AT command	Overview	Parameter/Explanation	Execution example
AT*DGAPL=<n>[,<cid>] [M]	Sets host (APN) to accept transmissions for incoming packet communications. APN settings use <cid> parameter defined by "+CGDCONT". ²	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)	AT*DGAPL=0,1 OK AT*DGAPL? *DGAPL:1 OK
AT*DGARL=<n>[,<cid>] [M]	Sets host (APN) to reject transmissions for incoming packet communications. APN settings use <cid> parameter defined by "+CGDCONT". ²	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)	AT*DGARL=0,1 OK AT*DGARL? *DGARL:1 OK
AT*DRPW [M]	Displays the reception power sent from FOMA terminal. ²	The result from this command is in the following format. *DRPW:<m> m: 0 to 75 (reception power)	AT*DRPW *DRPW:0 OK
AT*DGPIR=<n> [M]	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. 19.	AT*DGPIR=0 OK AT*DGPIR? *DGPIR:0 OK
+++ [M]	Switches the FOMA terminal mode from online data mode to online command mode. Escape guard interval is fixed at 1 second. ²	—	(During communication) +++ (Does not appear) OK
AT+CACM=[<passwd>] [M]	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 quotation marks (" ") when entering.	AT+CACM="0123" OK OK
AT+CAOC=[<mcode>] [M]	Inquires the current accumulated cost. ²	<mcode> 0 : Inquires the cost of current call The result from this command is in the following format. +CAOC:"<ccm>"	AT+CAOC +CAOC:"00001E" OK

AT command	Overview	Parameter/Explanation	Execution example
AT+CBC [M]	Inquires the battery status.*2	The result from this command is in the following format. +CBC:<bcs>,<bcl> <bcs> 0 : The battery operates the FOMA terminal 1 : Charging the battery 2 : The battery is unconnected 3 : Reducing the power <bcl> 0 to 100 (remaining battery power)	AT+CBC +CBC:0,80 OK
AT+CBST=[<speed>[,<name>[,<ce>]]] [M]	Sets the bearer service when establishing transmission. This setting is only valid when AT+FCLASS=<n> command (P. 34) = 0.*1	<speed> 116 : 64K data communication (default setting) <name> 1 : Fixed value <ce> 0 : Fixed value	AT+CBST=116,1,0 OK
AT+CEER [M]	Displays disconnection reason for preceding communication session.*2	Refer to "Reasons for disconnection" (P. 38).	AT+CEER +CEER:36 OK
AT+CGDCONT [M]	Sets host (APN) accessed when establishing packet transmission.*2	Refer to "More on AT commands" (P. 38).	Refer to "More on AT commands" (P. 38).
AT+CGEQMIN [M]	Registers criterion determining whether to permit QoS (Quality of Service) sent from network when establishing packet transmission.*2	Refer to "More on AT commands" (P. 39).	Refer to "More on AT commands" (P. 39).
AT+CGEQREQ [M]	Sets QoS (Quality of Service) requested of network during packet transmission.*2	Refer to "More on AT commands" (P. 40).	Refer to "More on AT commands" (P. 40).
AT+CGMR [M]	Displays FOMA terminal version.*2	—	AT+CGMR 1234567890123456 OK
AT+CGREG=<n> [M]	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> parameter. <stat> 0 : Outside area 1 : Inside area (home) 4 : Unknown 5 : Inside area (visitor)	AT+CGREG=1 OK (Set to send) AT+CGREG? +CGREG:1,0 OK (Indicates outside area) +CGREG:1 (Moved from outside area to inside area)
AT+CGSN [M]	Displays the FOMA terminal's serial number.*2	—	AT+CGSN 123456789012345 OK

AT command	Overview	Parameter/Explanation	Execution example
AT+CLIP=<n> [M]	Shows PC calling number when receiving 64K data communication.*1	<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 2 : Unknown	AT+CLIP=0 OK AT+CLIP? +CLIP:0,1 OK
AT+CLIR=<n> [M]	Sets whether to send terminal's phone number when establishing 64K data communication.*2	<n> 0 : Follows the service agreement 1 : Does not send 2 : Sends (default setting) Displays +CLIR:<n>,<m> for AT+CLIR?. <m> 0 : CLIR is not running (always send) 1 : CLIR is always running (never send) 2 : Unknown 3 : CLIR temporary mode (default setting is Do not send) 4 : CLIR temporary mode (default setting is Send)	AT+CLIR=0 OK AT+CLIR? +CLIR:2,3 OK
AT+CDIP=<n> [M]	Sets whether to send an incoming sub-address. Also, check the status of Multi Number subscription.	<n> 0 : Does not display sub-addresses (default setting) 1 : Displays sub-addresses <m> 0 : Multi Number is not subscribed 1 : Subscribing Multi Number 2 : Unknown	AT+CDIP=0 OK AT+CDIP? +CDIP:0,1 OK
AT+CMEE=<n> [M]	Sets the manner to display FOMA terminal error reports.*1	Sets whether to display errors only as "ERROR", or to display reason with text or numerical value. <n> 0 : Displays "ERROR" and no result codes (default setting) 1 : Displays result codes with numerical values 2 : Displays result codes with text When reports are set to display by setting "n=1" or "n=2", they are displayed in the following format: +CME ERROR:xxxx xxxx is a numerical value or text. Refer to "Error reports" (P. 38).	AT+CMEE=0 OK AT+CNUM ERROR AT+CMEE=1 OK AT+CNUM +CME ERROR:10
AT+CNUM [M]	Displays FOMA terminal phone number.*2	number: Phone number type : 129 or 145 129 : Does not include + international access code 145 : Includes + international access code	AT+CNUM +CNUM: "+819012345678",145 OK

AT command	Overview	Parameter/Explanation	Execution example
AT+COPS=[<m ode>[,<format>[,<oper>]]]	Selects a telecommunications carrier to be connected.*2	<p><mode></p> <p>0 : Auto (Automatically searches network and switch telecommunications carriers)</p> <p>1 : Manual (Connects to the telecommunications carrier specified in <oper>)</p> <p>2 : Cancels (disconnects) the connection to the telecommunications carrier</p> <p>※ Unsupported.</p> <p>3 : Does not make mapping</p> <p>4 : Manual auto (Performs "Auto" processing if not connected to the telecommunications carrier specified in <oper>)</p> <p>※ Unsupported.</p> <p><format></p> <p>2 : Fixed value</p> <p><oper> is indicated by a hexadecimal number consisting of a country code (MCC) and a network code (MNC).</p> <p>The formats are shown below.</p> <p>Digit 1 of MCC...octet 1 bits 1 to 4.</p> <p>Digit 2 of MCC...octet 1 bits 5 to 8.</p> <p>Digit 3 of MCC...octet 2 bits 1 to 4.</p> <p>Digit 3 of MNC...octet 2 bits 5 to 8.</p> <p>Digit 2 of MNC...octet 3 bits 5 to 8.</p> <p>Digit 1 of MNC...octet 3 bits 1 to 4.</p>	<p>AT+COPS =1,2,"44F001" [M]</p> <p>OK (Connects to MCC:440MNC:10)</p>
AT+CPAS [M]	Inquires the activity status of the FOMA terminal.*2	<p>The result from this command is in the following format.</p> <p>+CPAS:<pas></p> <p><pas></p> <p>0 : AT commands can be sent/received</p> <p>1 : AT commands cannot be sent/received (does not send the +CPAS:1 result)</p> <p>2 : Unknown</p> <p>3 : AT commands can be sent/received and the FOMA terminal is receiving a call</p> <p>4 : AT commands can be sent/received and performing data communication</p>	<p>AT+CPAS[M] +CPAS:0</p> <p>OK</p>
AT+CPIN=<pin >[,<newpin>]	Enters the UIM password (PIN1, PIN2).*2	<p><pin></p> <p>Enters PIN1 while waiting for PIN1 input (Enter <pin> parameter only)</p> <p>Enters PIN2 while waiting for PIN2 input (Enter <pin> parameter only)</p> <p>Enters PUK1 while waiting for PUK1 input</p> <p>Enters PUK2 while waiting for PUK2 input</p> <p>※ Encloses this string parameter with quotation marks (" ") when entering.</p> <p><newpin></p> <p>Enters a new PIN1 while waiting for PUK1 input</p> <p>Enters a new PIN2 while waiting for PUK2 input</p> <p>※ Encloses this string parameter with quotation marks (" ") when entering.</p>	<p>AT+CPIN?[M] +CPIN:SIM PIN1</p> <p>OK (Indicates waiting status for PIN1 input)</p> <p>AT+CPIN="1234" [M] OK</p> <p>AT+CPIN?[M] +CPIN:SIM PUK1</p> <p>OK (Indicates waiting status for PUK1 input)</p> <p>AT+CPIN="12345678","1234"[M] OK</p>

AT command	Overview	Parameter/Explanation	Execution example
AT+CR=<mode> [M]	Sets whether to display packet transmission/64K data communication before "CONNECT" result code is displayed during line connection.*1 "GPRS" is displayed for packet transmission, and "SYNC" is displayed for 64K data communication.	<mode> 0 : Does not display when line is connected (default setting) 1 : Displays when line is connected	AT+CR=1☐ OK ATD*99*:*:1# +CR:GPRS CONNECT
AT+CRC=<n> [M]	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> [M]	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)	AT+CREG=1☐ OK (Set to send) AT+CREG?☐ +CREG:1,0 OK (Indicates outside area) +CREG:1 (Moved from outside area to inside area)
AT+CUSD=[<n>,<str>,<dc>]]] [M]	Changes setting toward net for optional services, etc.*1	<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]". <dc> 0 : Fixed value	AT+CUSD=0,"xxx xxx"☐ OK
AT+FCLASS=<n> [M]	Sets the mode.*1	<n> 0 : Data (fixed value)	AT+FCLASS=0☐ OK
AT+GCAP [M]	Displays the ability list of the FOMA terminal.*2	—	AT+GCAP☐ +GCAP:+CGSM, +FCLASS,+W OK
AT+GMI [M]	Displays FOMA terminal maker name in single-byte alphanumeric characters.*2	—	AT+GMI☐ SHARP OK
AT+GMM [M]	Displays abbreviated FOMA terminal product name (FOMA SH02C) in alphanumeric characters.*2	—	AT+GMM☐ FOMA SH02C OK
AT+GMR [M]	Displays FOMA terminal version.*2	—	AT+GMR☐ Ver1.00 OK

AT command	Overview	Parameter/Explanation	Execution example
AT+IFC=<n,m> [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)	AT+IFC=2,2☐ OK
AT+WS46? [M]	Answers according to the 3G/GSM setting of the Overseas network search.*2	The result from this command is in the following format. <n> 12 : GSM/GPRS mode 22 : 3G mode 25 : AUTO mode	AT+WS46?☐ 25 OK (AUTO mode)
A/ [M]	Performs the preceding executed command.*2	—	A/ OK
ATA [M]	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
ATD [M]	Establishes communication.*2, 3	<ul style="list-style-type: none"> ● Packet transmission ATD*99***<cid>#☐ When ATD*99# is entered: Uses <cid>=1 (default setting) (When <cid> is not entered, setting becomes <cid>=1). When syntax starting with ATD184*99***<cid># is entered: "184" is added to host (APN) defined by specified <cid> (Alternatively, "186" can be added by same operation to turn caller ID sending to ON). ● 64K data communication ATD [parameter] [phone number] ☐ Number cannot be dialed if characters other than 0 to 9, *, #, +, A, a, B, b, C, c, D, d, hyphens (-), spaces, T, t, P, p, !, W, w, @, or commas (,) are included. Characters highlighted with can be entered but are ignored during dialing. 	ATD*99***1#☐ CONNECT
ATE<n> [M]	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
ATH [M]	Disconnects line when entered during packet transmission or 64K data communication.*2	—	(During communication) +++ (Does not appear) OK ATH☐ NO CARRIER
ATI<n> [M]	Displays the verification code.*2	n=0 : NTT DoCoMo n=1 : Displays abbreviated product name (FOMA SH02C) 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	ATI0☐ NTT DoCoMo OK

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]	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> [M]	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 setting)	ATV1 OK
ATX<n> [M]	Sets whether to include speed in the CONNECT display when connecting. Also detects busy tone or dial tone.*1	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 OK
ATZ<n> [M]	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> [M]	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 OK
ATS2=<n> [M]	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 OK
ATS3=<n> [M]	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).	ATS3=13 OK ATS3? 013 OK
ATS4=<n> [M]	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).	ATS4=10 OK ATS4? 010 OK

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>*: : 1 to 10
<PDP_type>*: : PPP or IP
<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 "IP") and "mpr.ex-pkt.net" for <cid>=4 (<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>*: : 1 to 10

<Maximum bitrate UL>*: : None (initial setting) or 5760

<Maximum bitrate DL>*: : None (initial setting) or 7232

<Maximum SDU size>*: :

When <PDP_type> is PPP : 10 (initial setting) to 1500 or 1502

When <PDP_type> is IP : 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 or 3
2: interactive (initial setting)
3: background

<Maximum bitrate UL>*: : None (initial setting) or 64 to 5760

<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.

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 (P. 36), 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), 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
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 (P. 37) setting.

Text display example: ATD*99***1#
 CONNECT
 Numerical display example: ATD*99***1#
 1

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#
 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 1 to 3	Kuten 4th digit									Kuten 1 to 3	Kuten 4th digit									Kuten 1 to 3	Kuten 4th digit											
	0	1	2	3	4	5	6	7	8	9		0	1	2	3	4	5	6	7	8	9		0	1	2	3	4	5	6	7	8	9
010											073	б	э	ю	я							187	我	介	会	解	塊	俄	賀	雅	驚	
011	!	~	~	~	~	~	~	~	~	~	074											188	介	会	解	塊	俄	賀	雅	驚		
012	>	>	>	>	>	>	>	>	>	>	075	б	в	л	д	е	ж	з	и	й	у	189	介	会	解	塊	俄	賀	雅	驚		
013	"	"	"	"	"	"	"	"	"	"	076	к	ф	г	м	н	о	р	с	т	ь	190	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	
014	<	<	<	<	<	<	<	<	<	<	077	х	я	ч	ш	щ	ъ	ы	э	ю	191	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
015	<	<	<	<	<	<	<	<	<	<	078	ю	я	ч	ш	щ	ъ	ы	э	ю	192	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
016	<	<	<	<	<	<	<	<	<	<	080										194	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
017	<	<	<	<	<	<	<	<	<	<	081										195	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
018	<	<	<	<	<	<	<	<	<	<	082										196	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
019	<	<	<	<	<	<	<	<	<	<	083										197	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
020	<	<	<	<	<	<	<	<	<	<	130										198	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
021	<	<	<	<	<	<	<	<	<	<	131										199	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
022	<	<	<	<	<	<	<	<	<	<	132										200	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
023	<	<	<	<	<	<	<	<	<	<	133										201	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
024	<	<	<	<	<	<	<	<	<	<	134										202	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
026	<	<	<	<	<	<	<	<	<	<	135										203	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
027	<	<	<	<	<	<	<	<	<	<	136										204	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
028	<	<	<	<	<	<	<	<	<	<	137										205	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
029	<	<	<	<	<	<	<	<	<	<	138										206	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹	蟹		
031	4	5	6	7	8	9	0	1	2	3	139										207	き										
032											160	あ									208	き										
033											161	あ									209	き										
034	H	I	J	K	L	M	N	O	P	Q	162	あ									210	き										
035	H	I	J	K	L	M	N	O	P	Q	163	あ									211	き										
036	f	g	h	i	j	k	l	m	n	o	164	あ									212	き										
037	f	g	h	i	j	k	l	m	n	o	165	あ									213	き										
038	f	g	h	i	j	k	l	m	n	o	166	あ									214	き										
039	あ	か	さ	た	な	に	ひ	ふ	み	め	167	あ									215	き										
041	あ	か	さ	た	な	に	ひ	ふ	み	め	168	あ									216	き										
042	あ	か	さ	た	な	に	ひ	ふ	み	め	169	あ									217	き										
043	あ	か	さ	た	な	に	ひ	ふ	み	め	170	あ									218	き										
044	あ	か	さ	た	な	に	ひ	ふ	み	め	171	あ									219	き										
045	あ	か	さ	た	な	に	ひ	ふ	み	め	172	あ									220	き										
046	あ	か	さ	た	な	に	ひ	ふ	み	め	173	あ									221	き										
047	あ	か	さ	た	な	に	ひ	ふ	み	め	174	あ									222	き										
048	あ	か	さ	た	な	に	ひ	ふ	み	め	175	あ									223	き										
050	あ	か	さ	た	な	に	ひ	ふ	み	め	176	あ									224	き										
051	あ	か	さ	た	な	に	ひ	ふ	み	め	177	あ									225	き										
052	あ	か	さ	た	な	に	ひ	ふ	み	め	178	あ									226	き										
053	あ	か	さ	た	な	に	ひ	ふ	み	め	179	あ									227	き										
054	あ	か	さ	た	な	に	ひ	ふ	み	め	180	あ									228	き										
055	あ	か	さ	た	な	に	ひ	ふ	み	め	181	あ									229	き										
056	あ	か	さ	た	な	に	ひ	ふ	み	め	182	あ									230	き										
057	あ	か	さ	た	な	に	ひ	ふ	み	め	183	あ									231	き										
058	あ	か	さ	た	な	に	ひ	ふ	み	め	184	あ									232	き										
060	A	B	C	D	E	F	G	H	I	J	187	あ									233	き										
061	A	B	C	D	E	F	G	H	I	J	188	あ									234	き										
062	A	B	C	D	E	F	G	H	I	J	189	あ									235	き										
063	A	B	C	D	E	F	G	H	I	J	190	あ									236	き										
064	A	B	C	D	E	F	G	H	I	J	191	あ									237	き										
065	A	B	C	D	E	F	G	H	I	J	192	あ									238	き										
070	A	B	C	D	E	F	G	H	I	J	185	あ									239	き										
071	A	B	C	D	E	F	G	H	I	J	186	あ									240	き										
072	A	B	C	D	E	F	G	H	I	J	187	あ									241	き										

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[illegible]