



SH-09B

INSTRUCTION MANUAL '10.6

docomo SMART series

DOCOMO

W-CDMA and GSM/GPRS System

Thank you for purchasing “docomo SMART series SH-09B”. Before use of SH-09B, make sure that you read this manual to ensure proper operation.

Explanation for operation of SH-09B

Other than this manual, “Support Book” (contained in the FOMA terminal) or “Manual (detailed edition)” (PDF file) explains how to operate SH-09B.

■ “Manual” (this manual)

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

■ “Support Book” (in Japanese only) (contained in the FOMA terminal)

Explanation for the outline and operation of frequently-used function

From SH-09B **Stand-by**   [Support Book]  select a menu or 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-09B terminal
(includes warranty and Back Cover SH42)




Battery Pack SH23



Manual (Japanese version)








SH-09B CD-ROM

- For details on optional parts compatible with the FOMA terminal  P.75

- The explanations in this manual are based on the case when Kisekai tool is set for the handset color “Black”.
- The screens and illustrations in this manual are shown as examples. The actual screens and illustrations may differ.
- Note that “SH-09B” 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.

Introduction P.1

- FOMA Terminal  P.2
- What You Can Do with SH-09B  P.3
- Part Names and Functions  P.4
- Precautions  P.6
- Handling Precautions  P.13

Basic Operation P.16

- Before Use  P.16
- Screen Explanation  P.20
- Character Entry  P.25
- Sound/Screen Setting  P.27
- Lock/Security  P.32

Connect P.37

- Call  P.37
- Mail  P.43
- Phonebook  P.46

Search P.47

- i-mode/Full Browser  P.47
- i-Channel  P.50

Enjoy P.51

- Camera  P.51
- 1Seg  P.54
- Music  P.57
- i-appli/i-Widget  P.60
- i-motion/Movie  P.61

More Convenient P.62

- Osaifu-Keitai  P.62
- i-concier  P.63
- Convenient Tools  P.64
- Data Management  P.66

Others P.70

- Support  P.70
- Appendix  P.76
- Index  P.90



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, text 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.
- 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-09B

Support Book (in Japanese only)

Support book 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.

Stand-by  [Support Book] select a menu or an item 

i-concier (in Japanese only) P.63

i-concier is a service that a character in the stand-by display (Machi-chara) notifies you of useful information and that can be used conveniently by downloading a schedule (i-schedule) from sites.

International roaming P.41

The same FOMA terminal, phone number and mail address as those used in Japan are available overseas (supporting 3G and GSM areas).

Triple Kukkiri Talk P.37

Reduce surrounding noise and suppress echo during a voice call to hear calls clearly.

Mail assist P.44

You can decorate a message such as entering pictograms/Deco-mail pictograms, changing fonts or composing Decome-Anime after entering a message.

Multifunctional camera P.51

The FOMA terminal has built-in multifunctional camera offering approximately 5.3 million effective pixels.

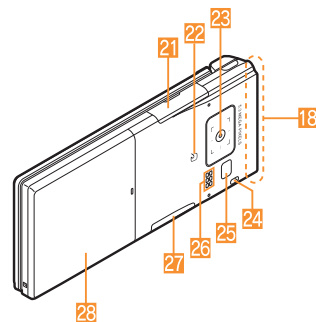
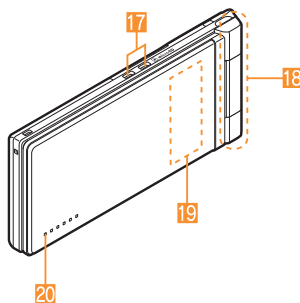
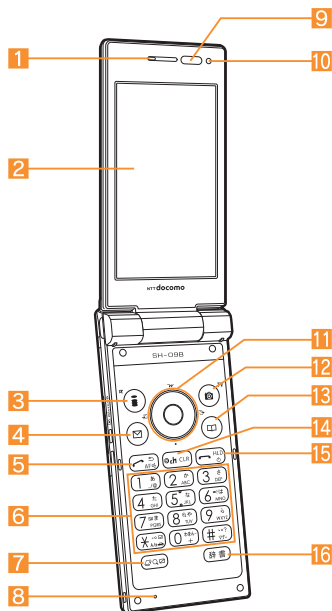
Quick Stand-by Clock setting P.65

When the FOMA terminal is opened, the clock is enlarged in the stand-by display temporarily.

Built-in dictionary P.65

The FOMA terminal has built-in useful dictionary for business including frequently used Japanese/English-Japanese/Japanese-English dictionary.

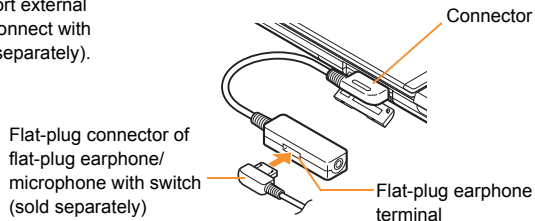
Part Names and Functions



Using earphone

When you use an earphone which does not support external connector terminal, connect with a plug adapter (sold separately).

Connection example for flat-plug earphone/microphone with switch (sold separately)






- 1 Earpiece**
- 2 Display** (📺 P.20)
- 3** (📶): i-mode/Operation guidance key (📺 P.23, P.47)
- 4** (✉): Mail/Operation guidance key (📺 P.23, P.43)
- 5** (📞): Start/Hands-free key (📺 P.37)
- 6** 1 to 9, *, 0 and #: Dial/Character entry keys
- 7** (🔍): Multi/Quick search/VeilView key (📺 P.28)
- 8 Mouthpiece/Microphone**
- 9 Infrared port** (📺 P.68)
- 10 Brightness sensor**
 - Sensor detects brightness of the surrounding area. Do not cover the sensor area with your hand or a sticker.
- 11** (📶): Multi-guide key (📺 P.23)
- 12** (📺): Camera/TV/Operation guidance key (📺 P.23, P.51, P.55)
- 13** (📞): Phonebook/Operation guidance key (📺 P.23, P.37)
- 14** (CLR) (⏮): i-Channel/Clear key (📺 P.23, P.50)
- 15** (🔴): Power/End key (📺 P.19, P.23)
- 16** (辞書): Dictionary key
 - Activates Built-in dictionary of Quick search.
- 17 Charger terminal** (📺 P.17)
 - Use for charging with the desktop holder.
- 18 FOMA antenna**
 - FOMA antenna is built in.
- 19 1Seg antenna**
 - 1Seg antenna is built in.
- 20 Called/Charging LED**
 - Flashes/Illuminates while receiving a call/charging/activating the camera/shooting, etc.
- 21 External connector terminal**
 - Use for charging and connecting the earphone, etc.
- 22** (📶) mark (📺 P.62, P.68)
- 23 Camera**
 - Use to shoot still pictures or moving pictures.
- 24 Strap hole**
- 25 Picture Light**
 - Illuminates while shooting.
- 26 Speaker**
- 27 microSD Card slot** (📺 P.67)
- 28 Back cover** (📺 P.16)
 - A radio frequency-preventing sticker is attached on the back of the back cover. Do not peel off this sticker.







Precautions

- 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 "bodily 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, and UIM (general) P.7
- Handling the FOMA terminal P.8
- Handling battery pack P.9
- Handling adapters P.10
- Handling UIM P.11
- Handling mobile phones near electronic medical equipment P.11

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

Danger



Don't

Do not use, store, or leave the FOMA terminal, battery pack, adapters, or UIM 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 FOMA terminal, battery pack, adapters, or UIM 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.

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



No liquids

Do not get the FOMA terminal, battery pack, adapters, or UIM wet with water, drinking water, pet urine, etc.

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



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 FOMA terminal 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 device 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 FOMA terminal 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 FOMA terminal on unstable surfaces, such as on a wobbling table or sloped surface.

The FOMA terminal may fall and cause injury.



Don't

Do not store the FOMA terminal 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 FOMA terminal as directed.

May result in bodily injury.



Keep the FOMA terminal out of the reach of young children.

Instruction

A young child may swallow components or suffer other bodily injury.



Instruction

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

The FOMA terminal, battery pack or adapters may become warm if i-xxpli, videophone, or 1Seg is used for a long time while charging. Touch high temperature areas for a prolonged period of 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.

The FOMA terminal may interfere with the operation of infrared devices and cause an accident.



Don't

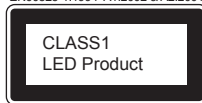
Do not point the illuminated light directly at someone's eyes.

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

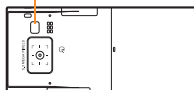
Precautions:

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.

This 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.

The FOMA terminal 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 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 46.0 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.

Various settings 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.

The FOMA terminal 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.

The FOMA terminal 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.

The FOMA terminal 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, 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 the 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 the liquid comes into contact with your eyes or mouth, immediately rinse your eyes or mouth with clean water and see a doctor.

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



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.

The FOMA terminal 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. ☞ "Material list" on P.12



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 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 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 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



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 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.



Instruction

Wipe off any dust on the power plug.

May cause fires, burns or electric shock.



Instruction

Fully plug the AC adapter into the outlet.

May cause fires, burns or electric shock.



Instruction

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.

May cause fires, burns or electric shock.



Unplug

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

May cause fires, burns or electric shock.



Unplug

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

May cause fires, burns or electric shock.



Unplug

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

May cause fires, burns or electric shock.

Handling UIM



Caution



Instruction

Be careful with the cutting surface when detaching the UIM.

May cause bodily injury.

Handling mobile phones 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



Instruction

Observe the following in hospitals or other medical facilities.

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

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



Instruction

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

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



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 resin/Hard coating
	Back of display side	SUS/UV coating
	Upper back of display side, Side surface of keyboard side	PC resin+ABS resin/UV coating
	Keyboard side, Back of keyboard side	PA+GF45/UV coating
Camera window		PMMA resin/Hard coating
Hinge section		ABS resin/Deposition (UV coating only for the handset color White)
Back cover	Back cover	PC resin+ABS resin/UV coating
	Radio frequency-preventing sticker	IFL12 (Magnetic powder+urethane resin)/PET
Logo panel		UV cured resin
Picture Light		PC resin
Protective cover	Upper	UV cured resin
	Lower	Urethane resin
Operation key		UV cured resin
Operation key base sheet		PET

PART		Material/Surface treatment
External connector terminal	External connector terminal	SUS/Sn plating
	Cover	PC resin+Elastomer resin/UV coating
Charger terminal		SUS/Gold plating
microSD Card slot	Slot	PC resin+Elastomer resin/UV coating
	Inside slot	SUS
UIM tray	Tray	LCP resin
	Upper surface of tray	SUS/Polyimide resin coating
Battery storage side		PET
Battery storage section	Surrounding section of battery storage section	ABS resin/Material
	Screw	SWCH/Ni plating
Battery terminal	Battery terminal connector	LCP resin
	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

- **Do not expose to water.**

The FOMA terminal, battery pack, adapter and UIM are not waterproof. Do not use in humid or steamy areas such as bathrooms and avoid exposing to rain and other forms of moisture. If the FOMA terminal is carried close to skin, perspiration may cause internal components to corrode and result in 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 LCD with a dry cloth may scratch LCD surface.
- Note also that LCD 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.

- **Read the respective manuals supplied with the FOMA terminal, adapters, and desktop holder carefully.**

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

May scratch the handset and cause malfunction or damage.

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 35°C and a humidity between 45% and 85%.

- **Using the handset close to landline phones, TVs or radios may have harmful effects on the operation of such equipment. Move as far away as possible from such items before use.**

- **Keep a separate memo and note information stored in the FOMA terminal.** DOCOMO shall not be liable for any loss of content.

- **Do not drop or otherwise subject the FOMA terminal to severe impact.** May damage the handset and cause malfunction.

- **When connecting an external connector device to the external connector terminal (earphone/microphone terminal), do not put it in obliquely or do not pull it while it is plugged in.** May damage the handset and cause malfunction.

- **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, keys, or buttons 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 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

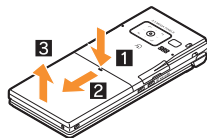
- **Never use the FOMA terminal that is modified. Using a modified device violates the Radio Law.**
The FOMA terminal has acquired the certification of conformity with technical regulations for the specified radio station based on the Radio Law, and the "Technical Conformity Mark" (㊞) is printed on the 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.**
While driving, using a mobile phone in hand is regarded as a punishable act. If there is no choice but to receive a call, use hands-free and tell the caller that you will "call back" and then pull over to a safe place to make a call.
- **Use the FeliCa reader/writer function only in Japan.**
The FeliCa reader/writer function in the FOMA terminal conforms to the domestic radio wave standards. Using the function overseas may result in punishment.

Before Use

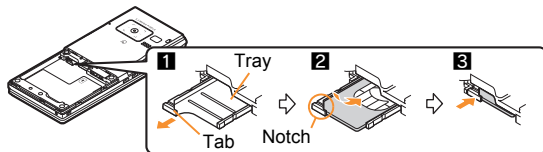
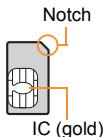
Inserting UIM (FOMA card) and battery pack

- 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.

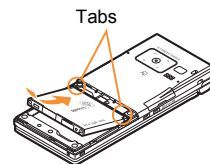
1 Push the catch on the back cover in the direction of the arrow (1), slide approximately 3 mm (2) and remove the back cover (3)



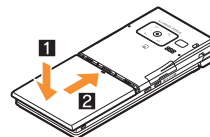
2 Hook a finger on the tab and pull out the tray (1). Set the UIM on the tray with the IC (gold) side turned up (2) and push the tray all the way in (3)



3 Turn a recycle mark side up, match tabs and attach the battery pack



4 Place the back cover to the FOMA terminal slot with the back cover open approximately 3 mm, push it (1) and slide it to the direction of arrow to insert (2)



- Perform with the FOMA terminal turned off and closed while holding with your both hands. Note that excessive force may damage the FOMA terminal, UIM and battery pack.
- Securely close the back cover. If not closed securely, the back cover may come off and the battery pack may fall out due to vibration.

Charging

Charging by using desktop holder

- Read the user's guide of Desktop Holder SH33 (sold separately).

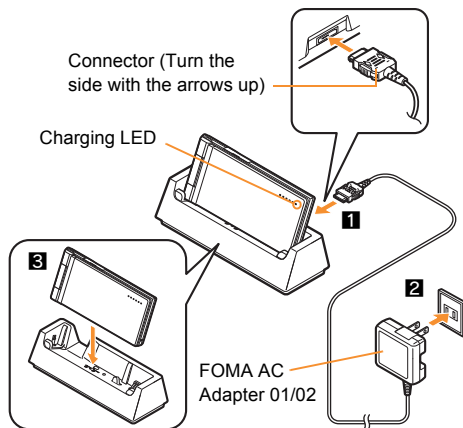
1 Insert the AC adapter connector into the connector terminal of the desktop holder (1)

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

- Charge start sound is heard, charging LED illuminates, and charging starts.



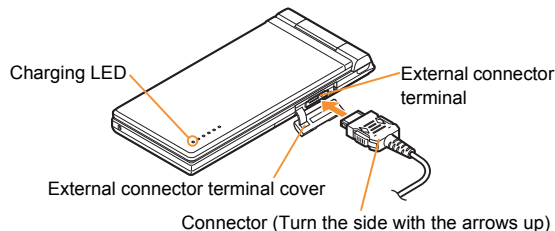
4 Hold the desktop holder, flip the FOMA terminal forward and lift it out when charging is complete

- Charge end sound is heard and charging LED turns off when charging is complete.
- Pull the AC adapter out of the outlet when left unused for a long period of time.
- When charge start sound 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 start sound is silent).
- When placing the FOMA terminal in the desktop holder, be careful not to catch a strap, etc.

Charging by using AC adapter

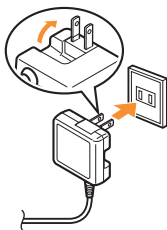
- Read the user's guide of FOMA AC Adapter 01/02 (sold separately).

- 1** Open the external connector terminal cover and insert the AC adapter connector horizontally into the external connector terminal



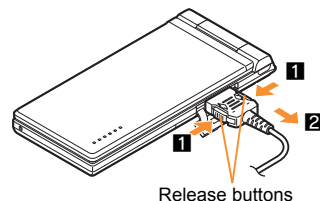
- 2** Insert the AC adapter power plug into an outlet

- Charge start sound is heard, charging LED illuminates, and charging starts.





- 3** Hold the release buttons (1) and horizontally remove the connector (2) when charging is complete

- Charge end sound is heard and charging LED turns off when charging is complete.




- Note that excessive force may damage the FOMA terminal and AC adapter.


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  [設定] ▶ [一般設定] ▶ [Bilingual] ▶ [English]

Making initial setting






- If initial settings are not complete, the setting screen appears every time the power is turned on.
- Alternatively,  [Settings] ▶ [Initial setting] to display the setting screen.

- 1 Set the date and time
- 2 Register a terminal security code
- 3 Set the key sound
- 4 Set the font size collectively

Checking your own phone number

- 1  

Saving your own name and image

- 1   ▶ 
- 2 Enter the terminal security code ▶ 
- 3 Save owner information ▶ 

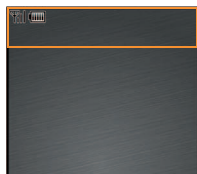
Changing mail address or configuring spam mail prevention

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   ▶ [Mail setting] ▶ [Address/Spam Mail Settings] ▶ [Yes]

Screen Explanation

Viewing display/icon



Icon display area

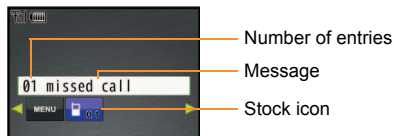
Main icons

	Signal status (Strong → Weak) ● When [] appears, the handset is outside the service area or in a place with no signal.
	Battery level (High → Low)
	i-mode/Full Browser
	i-appli
	Ir communication
	i-mode mail/SMS/Area Mail received
	microSD Card
	1Seg being recorded
	Record message
	Silent

	Vibrator
	Manner mode
	Public mode (Drive mode)
	IC card lock
	Restriction
	Hands-free
	Alarm
	Music&Video Channel program reservation
	UIM error
	Self mode
	VeilView
	3G/GSM
	ToruCa
	Information received

Checking stock icon details

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



Main stock icon type

	xx missed call
	xx/ xx message
	xx voice mail
	xx mail message
	Update required
	Download successful (Music&Video Channel)
	Download failed (Music&Video Channel)
MENU	Custom menu/Basic 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.

Displaying and operating i-Widget

In the i-Widget screen, you can simultaneously activate multiple Widget Appli and display them as a list.

- For details on operation of i-Widget P.60



Viewing main menu

Set, change or register functions from the menu screens. You can select the icon displayed on the menu to retrieve the function.

- Functions and designs of the custom menu differ depending on the Kisekai tool set.



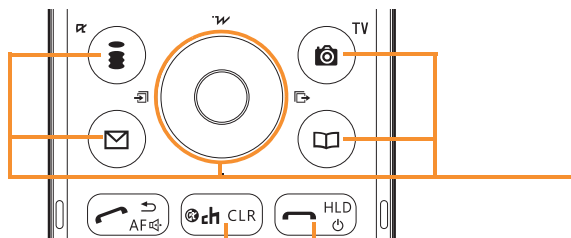
Setting start menu

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

1 Stand-by  [Settings] ▶ [Disp/LED/Power saver] ▶ [Menu priority]

2 Select the start menu   [Yes]

Key operation



Clear key

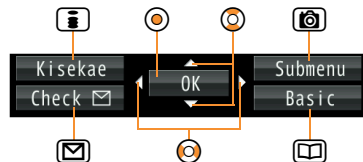
Use to return to the previous screen.

End key

Use to end the function being activated and return to stand-by display.

Multi-guide key and operation guidance key

Use to select or execute the menus displayed in the operation guidance.



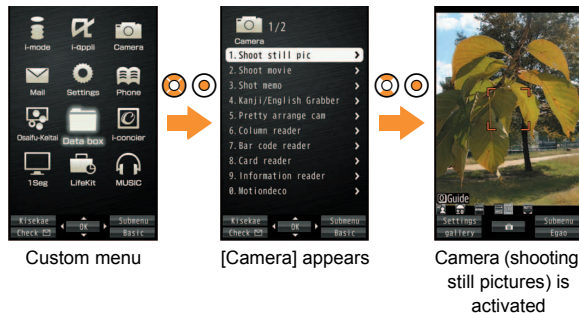
Main menu displayed in the operation guidance

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

Menu operation

- For details on the available functions refer P.76
- The operation may differ from the description in this manual depending on the Kisekai tool set for the custom menu.
- The explanations in this manual are based on the method for retrieving a function from the custom menu.

Example: Retrieve camera (shooting still pictures) using Multi-guide key



Operation procedure

Above operation is described as “**Custom** [Camera] ▶ [Shoot still pic]” in this manual.

- Operations from the stand-by display are described as “**Stand-by** ▶”.

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 .

Character Entry

Entering characters

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

Switching entry modes

Switch entry modes to enter various types of characters.

1 In the character entry screen,

あ	ア	7
aA	aA	1
Aa	Aa	Kuten

Entry mode switch palette










2 Select the entry mode with

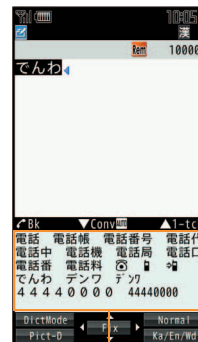
あ	Kanji/Hiragana
ア	Double-byte katakana
7	Single-byte katakana
aA	Double-byte alphanumeric characters (lower case → upper case)
aA	Single-byte alphanumeric characters (lower case → upper case)
1	Single-byte numbers
Aa	Double-byte alphanumeric characters (upper case → lower case)
Aa	Single-byte alphanumeric characters (upper case → lower case)
Kuten	Kuten code

Entering characters

Example: When entering “電話”

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

- でんわ:  (four times)  (once)  (three times)  (once)
- To enter multiple characters assigned to the same key: Enter a character  enter a character
- To convert to characters in the conversion candidates field:  select the conversion candidate 
 - When the conversion candidates for error correction appear:  (for at least 1 second) select the conversion candidate 








Conversion candidates field



2 Move the cursor to the conversion candidates field with






3 Select “電話”

Entering pictograms/symbols



- 1 In the character entry screen, 
 - To switch between pictograms and Deco-mail pictograms: 
 - To switch between single- and double-byte symbols: 
- 2 Select a pictogram/symbol  




Using phrases

- 1 In the character entry screen,  



[Phrase(Hold )]
- 2 Select a phrase    confirm the phrase 





Entering emoticons

- 1 In the character entry screen,  



[Emoticon(Hold )]
- 2 Select an emoticon  






Copying characters

- 1 In the character entry screen, move the cursor to the start position  

[Copy]  
- 2 Move the cursor to the end position  
 - The highlighted text string is copied.

Cutting characters

- 1 In the character entry screen, move the cursor to the start position  

[Cut(Hold )]  
- 2 Move the cursor to the end position  
 - The highlighted text string is cut.



Pasting characters

- 1 In the character entry screen, move the cursor to the paste position  




[Paste(Hold )]  

Sound/Screen Setting

Changing ring tone

- 1 **Custom** [Settings] ▶ [Snd/Vibrator/Manner] ▶ [Select sound]
- 2 Select an item ▶ 
- 3 Select a ring tone ▶ 

Adjusting ring tone volume



- 1 **Custom** [Settings] ▶ [Snd/Vibrator/Manner] ▶ [Select volume]
- 2 Select an item ▶ 
- 3 Adjust the volume with  ▶ 

Setting keypad sound off

- 1 **Custom** [Settings] ▶ [Snd/Vibrator/Manner] ▶ [Select volume] ▶ [Key sound]
- 2 Set to [Silent] with  ▶ 

Setting vibrator

You can set the vibrator to notify you of incoming calls, mails and alarms.

- 1 **Custom** [Settings] ▶ [Snd/Vibrator/Manner] ▶ [Vibrator]
- 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 set the FOMA terminal on mute.

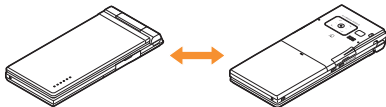
- Camera shutter sound and record start/end sound are heard even while the manner mode is set.

1 **Stand-by**  (for at least 1 second)

◆ **To disable:** **Stand-by**  (for at least 1 second)

Setting to stop ring tone by turning the FOMA terminal back

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



1 **Custom** **[Settings]** **▶ [Snd/Vibrator/ Manner]** **▶ [Motion silent]** **▶ [ON]**

Changing screen setting

Changing stand-by display

1 **Custom** **[Settings]** **▶ [Disp/LED/Power saver]** **▶ [Stand-by settings]** **▶ [Stand-by display]**

2 **Select an image**  **▶ [Yes]**

Preventing others from seeing display clearly



If you set VeilView, you can prevent others from seeing your display by displaying patterns.

1  (for at least 1 second)


◆ **To disable:**  (for at least 1 second)

Changing menu item

For some of Kisekae tool, you can change the custom menu items to other functions.


- 1 **Custom** ▶ select an item ▶  ▶ [Assign function]
- 2 Select a function to assign ▶  ▶ [Yes]

Changing font size

- 1 **Custom** ▶ [Settings] ▶ [Disp/LED/Power saver] ▶ [Font style] ▶ [Font size setting]
- 2 [Collective setting] ▶ select the font size ▶ 
 - When a confirmation screen asking whether to change the menu appears, select [Yes] to change the font size and menu. Select [No] to change the font size only.

Setting Machi-chara

You can display a character in the stand-by display.

- 1 **Custom** ▶ [Settings] ▶ [Disp/LED/Power saver] ▶ [Color/Graphic set] ▶ [Machi-chara] ▶ [ON]
- 2 Select a Machi-chara ▶ 
 - Machi-chara being set does not appear.

Setting Kisekae tool

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

- 1 **Custom** ▶ [Data box] ▶ [Kisekae Tool]
- 2 Select Kisekae tool ▶  ▶ [Yes]
 - To check data: Select Kisekae tool ▶  (to display data list screen in Kisekae tool) ▶ select data ▶ 

Changing LED for incoming calls

- 1 **Custom** [Settings] ▶ [Disp/LED/Power saver] ▶ [LED settings] ▶ [Called LED]
- 2 Select an item ▶
- 3 [LED color settings] ▶ select the LED color ▶
- 4 [LED pattern settings] ▶ select the LED pattern ▶

Checking missed calls or new mails with LED

LED flashes at approximately 4-second intervals and notify you of missed calls and new mails.

- 1 **Custom** [Settings] ▶ [Disp/LED/Power saver] ▶ [LED settings] ▶ [Notice LED]
- 2 Select an item ▶ ▶ [ON]

Saving power consumption

Norm (auto bright)	This is normal light setting. Brightness is automatically adjusted.
Norm (fixed bright)	This is normal light setting. Brightness is fixed.
eco mode	You can save power consumption.
Original eco mode	You can change settings for light duration, brightness, etc. of display.

- 1 **Custom** [Settings] ▶ [Disp/LED/Power saver] ▶ [Light/Power saver]
- 2 Select the type ▶

Stand-by (for at least 1 second)
▶ [Yes] to set the eco mode.



Changing original eco mode setting

Setting light time of display and keypad

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.

1 **Custom** [Settings] ▶ [Disp/LED/Power saver] ▶ [Light/Power saver] ▶ [Original eco mode] ▶ [Display light time]

2 Select an item ▶

3 Select the setting ▶

- To change the setting of [Normal]: Enter the light duration ▶

Setting screen display time

Display is turned off when the FOMA terminal is not in use for a set length of time.

1 **Custom** [Settings] ▶ [Disp/LED/Power saver] ▶ [Light/Power saver] ▶ [Original eco mode] ▶ [Screen dsp time]

2 Select the time ▶

Adjusting display brightness

- Adjusting methods are as follows.

Automatic	The display brightness is automatically adjusted according to the surrounding light.
Manual	You can select from 16 display brightness levels.

1 **Custom** [Settings] ▶ [Disp/LED/Power saver] ▶ [Light/Power saver] ▶ [Original eco mode] ▶ [Brightness]

2 Select the adjusting method ▶

Setting keypad light

Set whether to turn on or off the keypad light.

1 **Custom** [Settings] ▶ [Disp/LED/Power saver] ▶ [Light/Power saver] ▶ [Original eco mode] ▶ [Keypad light setting]

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 **Custom** [Settings] ▶ [Security] ▶ [Change security code] ▶ enter the current terminal security code ▶ 

2 Enter the new terminal security code ▶  ▶ enter the new terminal security code again ▶ 

Network security code (At subscription: Set any code)

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

Changing network security code

1 **Stand-by**  ▶ [お客様サポート] ▶ [各種設定 (確認・変更・利用)] ▶ [ネットワーク暗証番号変更]

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**   **[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 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 handset to require PIN1 code entry at power on



- 1**  **[Settings] ▶ [Security] ▶ [UIM Settings] ▶ enter the terminal security code ▶ **

- 2** **[PIN1 code input set] ▶ [ON]**

- 3** **Enter the PIN1 code ▶ **

Changing PIN1 code/PIN2 code

- When the PIN1 code input set is set to [OFF], you cannot change the PIN1 code.

- 1**  **[Settings] ▶ [Security] ▶ [UIM Settings] ▶ enter the terminal security code ▶ **

- 2** **Select the PIN code to change ▶ **

- 3** **Enter the current PIN code ▶ **

- 4** **Enter the new PIN code ▶  ▶ enter the new PIN code again ▶ **

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. <ul style="list-style-type: none"> ● Enable: Custom [Settings] ▶ [Security] ▶ [Lock settings] ▶ enter the terminal security code ▶ ▶ [All lock] ▶ [Yes] ● Disable: Stand-by enter the terminal security code ▶
Keypad dial lock	Prevents calling to numbers not saved in the phonebook. <ul style="list-style-type: none"> ● Enable/Disable: Custom [Settings] ▶ [Security] ▶ [Lock settings] ▶ enter the terminal security code ▶ ▶ [Keypad dial lock] ▶ select the setting ▶
Function lock	Prevents access of each function individually. <ul style="list-style-type: none"> ● Enable/Disable: Custom [Settings] ▶ [Security] ▶ [Lock settings] ▶ enter the terminal security code ▶ ▶ [Function lock] ▶ select an item to lock/disable ▶ ▶
Self mode	Prevents communication. <ul style="list-style-type: none"> ● Enable/Disable: Custom [Settings] ▶ [Phone settings] ▶ [Self mode] ▶ select the setting ▶ ▶ [Yes]
Multi lock	Keypad dial lock, IC card lock and Function lock can be set collectively. <ul style="list-style-type: none"> ● Enable: Stand-by (for at least 1 second) ▶ [Multi lock] ▶ [Yes] ● Disable: Stand-by (for at least 1 second) ▶ [Multi lock] ▶ enter the terminal security code ▶




Lock function	Operation/Restriction
IC card lock	Prevents the use of IC card functions. <ul style="list-style-type: none"> ● Enable: Stand-by (for at least 1 second) ▶ [IC card lock] ▶ [Yes] ● Disable: Stand-by (for at least 1 second) ▶ [IC card lock] ▶ 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) <ul style="list-style-type: none"> ● Unavailable from part of IP phones. ● Omakase Lock can also be set/released from the My docomo website using PCs.

* This is a paid service. Refer to "Mobile Phone User's Guide [i-mode] FOMA version" for details on Omakase Lock.



Incoming call restriction

Rejecting a call with no caller ID

You can set the handset to reject calls with no caller ID depending on reason (User unset, Payphone, Unavailable).

- 1 **Custom** [Settings] ▶ [Security] ▶ [Accept/Reject calls] ▶ enter the terminal security code ▶ 
- 2 Select the reason ▶ 
- 3 Select the setting ▶ 


Rejecting a call from a caller unset in phonebook

- 1 **Custom** [Settings] ▶ [Security] ▶ [Accept/Reject calls] ▶ enter the terminal security code ▶  ▶ [Reject unknown]
- 2 Select the setting ▶ 

Resetting to default

Resetting various functions


- For items return to default by Reset settings  P.76

- 1 **Custom** [Settings] ▶ [General settings] ▶ [Reset settings]
- 2 Enter the terminal security code ▶ 
- 3 [Yes] ▶ [Agree]

Deleting saved data all at once

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

Protected data is also deleted.

- 1 **Custom** [Settings] ▶ [Security] ▶ [Delete all data] ▶ [Delete user data]
- 2 [Agree] ▶ enter the terminal security code ▶  ▶ [Yes]

Resetting data by remote control

You can initialize various data (memory in the handset/ microSD Card/UIM) in the specified FOMA terminal by manager's request with the subscription of this function (Business mopera anshin manager).

Refer to the DOCOMO website for corporations (in Japanese only) for details.

docomo Business Online

From a PC <http://www.docomo.biz/>

※ You may not be able to access some site services due to system maintenance, etc.

- Remote reset is a service that requires subscription.

Call

Making a voice/videophone call




- Since the FOMA terminal does not have built-in camera inside, the image, which can be sent to the other party, is Chara-den, still picture or image being shot with the camera on the rear side.
- DOCOMO videophones comply with "3G-324M as defined by the international 3GPP standard". Connection is not available with videophones using other standards.

Making a call by entering a phone number

1 **Stand-by** enter a phone number

- Start with the area code.

2 **(Phone)/(V.phone) to make a call**

- To enable/disable Triple KukkirTalk (voice call): 
 - Set Noise reduction to [Triple KukkirTalk] in advance (P.37).
- To enable/disable hands-free
 - Voice call:  (for at least 1 second)
 - Videophone call: 

3 **to end the call**

Making a call from phonebook

1 **Stand-by**

2 **Select a name**

3 **(Phone)/(V.phone) to make a call**

Making a call with redials/received calls

1 **Stand-by** **(Redial)/(Received calls)**

2 **Select a phone number**

3 **(Phone)/(V.phone) to make a call**

Notifying the other party of your phone number

You can display your number on the other party's phone when you make a call.

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

1 **Custom** [Settings] ▶ [NW Services] ▶ [Notify caller ID] ▶ [Activate/Deactivate] ▶ [Yes]

Using Triple KukkirTalk

Reduce surrounding noise, suppress echo and emphasize other party's voice during a voice call to hear calls clearly.


1 **Custom** [Settings] ▶ [Phone settings] ▶ [In-call settings] ▶ [Noise reduction] ▶ [Triple KukkirTalk]

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  **0** (for at least 1 second) ▶ **enter the country code, area code (city code) and other party's phone number**

- For area codes (city codes) that begin with "0", omit the "0" when entering (Include the "0" when making a call to some countries or regions such as Italy).


2  (Phone)/ (V.phone) ▶ **[Call]**

Receiving a voice/videophone call

1 **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
 - [Payphone]: 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  **to answer a call**

3  **to end a call**

Adjusting earpiece volume

1 **During a call, / **

2 **Adjust the volume with **

When you cannot answer 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 **Custom** [Settings] ▶ [Phone settings] ▶
[Record message] ▶ [Record message]

2 Select the setting ▶

◆ **To play record message:** **Custom** [LifeKit]
▶ [Voice memo/Rec msg] ▶ [Play] ▶ select
a message ▶

- 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).

Setting public mode (Drive mode)

The FOMA terminal plays the message stating you cannot answer the phone without the ring tone.

1 **Stand-by** (for at least 1 second)

◆ **To disable:** **Stand-by** (for at least 1 second)

Setting public mode (Power off)

The FOMA terminal plays the message stating you cannot answer the phone when the power is off.

1 **Stand-by** **2** **5** **2** **5** **1** ▶

◆ **To disable:** **Stand-by** **2** **5** **2** **5** **0** ▶

Using various network services

Service name	Subscription	Monthly fee
Voice Mail Service	Necessary	Fees apply
Call Waiting	Necessary	Fees apply
Call Forwarding Service	Necessary	Free
Nuisance Call Blocking Service	Not necessary	Free
Notify Caller ID Service	Not necessary	Free
Caller ID 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/officed/>) 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 **Custom** [Settings] ▶ [NW Services] ▶ [Voice Mail]

2 [Activate VoiceMail] ▶ [Activate VoiceMail] ▶ [Yes]

Setting Call Waiting

1 **Custom** [Settings] ▶ [NW Services] ▶ [Call waiting]

2 [Activate] ▶ [Yes]

Setting Call Forwarding Service

1 **Custom** [Settings] ▶ [NW Services] ▶ [Call Forwarding]

2 [Activate] ▶ [Activate] ▶ [Yes]

Services available for the FOMA terminal

- For weather forecast, enter the number, starting with the area code of the area you want to know the weather. For other services, dial without area code.

Available services	Phone number
Directory assistance service (fees apply: assistance fee + call fee)*	104
Telegrams (fees apply: telegram fee)	115
Time tone service (fees apply)	117
Weather forecast (fees apply)	177
Police emergencies	110
Fire department/Medical assistance	119
Emergencies and accidents at sea	118
Disaster message (fees apply)	171
Collect call (fees apply: assistance fee + call fee)	106

- * We do not provide directory assistance service to customers who do not want to have it.
- If landline phones subscribed to “Call Forwarding” are set to forward calls to mobile phones, callers may hear the phone ringing even if the mobile phone is busy, outside the service area, in self mode or turned off depending on the settings for the landline/mobile phones.

- 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 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. In such cases, use the nearest payphone or landline phone.

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.

- Check the status of a subscription for WORLD WING when using the service.
- The FOMA terminal is available in the 3G and GSM/GPRS network service area. In addition, the FOMA terminal is available in countries and regions supporting 3G850MHz.
- When you received a call during international roaming, the call is forwarded from Japan. Call charges to Japan are incurred by the caller and receiving charges by the receiver.
- 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 Documents] of data box
 - “Mobile Phone User’s Guide [International Services]”
 - DOCOMO International Services website
- 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	○	○	○
Videophone	○	×	×
SMS	○	○	○
i-mode*1	○	×	○
i-mode mail	○	×	○
i-Channel*1, 2	○	×	○
i-concier*3	○	×	○
i-Widget*4	○	×	○
Packet transmission by connecting a PC	○	×	○

*1 Overseas use settings for i-mode is required.

*2 i-Channel services Settings is required for overseas. Packet transmission charges for automatically updating information provided by Basic Channel are incurred.



*3 Overseas use settings for i-concier is required. Packet transmission charges are incurred for each information reception.

*4 Setting for i-Widget roaming is required. Multiple Widget Appli may attempt transmission when i-Widget screen appears. In such case, packet transmission charges are incurred for each transmission.

- Overseas charges (call charges, packet transmission charges) differ from those in Japan.
- 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 outside your country of stay (including Japan)

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


1  **Stand-by**  **(for at least 1 second)** **▶ enter 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) to make a call**

Making a call in your country of stay



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

1  **Stand-by** **▶ enter a phone number**

2  **(Phone)**/ **(V.phone) to make a call**

Making a call to a WORLD WING subscriber overseas

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

1  **Stand-by**  **(for at least 1 second)** **▶ enter country code "81" (Japan) and the other party's mobile phone number excluding the first "0"**

2  **(Phone)**/ **(V.phone) to make a call**

Mail

You can exchange mails with other i-mode terminals and e-mail via 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.

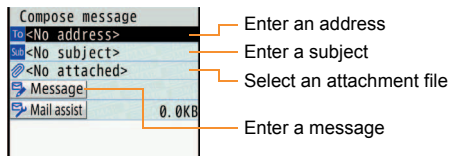
Moreover, Flash movie Decome-Anime with a message or image inserted is available.

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

Sending i-mode mail

1 Stand-by [Compose message]

2 Compose a mail



3 [Send icon] to send

Sending Deco-mail/Decome-Anime

Sending Deco-mail

You can decorate a message or its background when composing i-mode mail.



1 In the message entry screen, [Decorate mail]

2 Decorate



- Select the decoration method from the palette, set contents of decorating and enter messages.

3 [Send icon] to send

Sending Decome-Anime

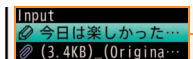
You can compose an expressive mail with Flash movies using templates.



1 **Stand-by** ➤ ➤ **[Compose Decome-Anime]** ➤ **[Edit]**

2 **Select a template** ➤

3 **Select an edit item** ➤ ➤ **edit**



Editing items list

4 ➤ **enter an address and a subject** ➤ **to send**

Decorating message with mail assist

You can decorate a message such as entering pictograms/Deco-mail pictograms, changing fonts or composing Decome-Anime after entering a message.

1 **In the compose message screen, [Mail assist] after entering a message**

2 **Select an item and decorate**

- To enter pictograms/Deco-mail pictograms: [EmojiPlus] ➤
- To change fonts: [Font change] ➤ [Yes] ➤
- To compose Decome-Anime: [Decome-Anime] ➤ select a template ➤

Checking received i-mode mail

1 **Receive i-mode mail**

- The receive complete screen appears and the mail ring tone sounds.
- If you do not operate for approximately 30 seconds, the screen before reception reappears.

2 **[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.

Checking a mail in Inbox

1 **Stand-by** ➤ ➤ **[Inbox]**

2 **Select a mail** ➤

Replying to i-mode mail

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

2 **[Reply] ➤ [i-mode mail]/[Decome-Anime]**

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 **Stand-by** ➤ ➤ **[Check new messages]**

Sorting i-mode mail

Set sort rules for user folders in Inbox/Outbox and sort i-mode mail and SMS automatically.

- Multiple sort rules can be set for one folder.

1 Select a folder ▶  ▶ [Sort rules]

2 Select a number to save ▶ 

3 Set the sort rules ▶ 

Receiving 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

- Dedicated alarm tone (beep sound) or Area Mail dedicated ring tone sounds and called LED flashes red.
- 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 Stand-by ▶  ▶ [Mail setting] ▶ [Area Mail setting] ▶ [Receive setting]

2 Select the setting ▶ 

Using SMS

You can use SMS entering mobile phone number in the [To] field.

Sending SMS

1 Stand-by ▶  ▶ [Compose SMS]

2 Compose and send SMS

Checking received SMS

1 Receive SMS






2 [Mail] ▶ select SMS ▶ 

Phonebook

You can use the FOMA terminal phonebook and UIM phonebook.

Adding entries to phonebook

Main entry items

Icon	Item	Details
	Name	Enter a name.
	Reading	Reading is entered automatically.
	Group	Entries can be sorted in groups.
	Phone number	Add phone numbers.
	Mail address	Add mail addresses.


* Icons displayed in the UIM phonebook

- You can add address, birthday and other items to the FOMA terminal phonebook.



Adding new phone number, mail address, etc.


1 Stand-by   [New] ▶ [Phone]/[UIM]

2 Enter/Select an item 

- You can set a memory number for the FOMA terminal phonebook. If you press  without entering a memory number, the entry is added to an available memory number.



Adding entries from redials/received calls to phonebook

1 Stand-by  (Redial)/ (Received calls)

2 Select a phone number  ▶ [Add to phonebook]

3 Add to phonebook

Editing phonebook

1 Stand-by  select a name  ▶ [Edit data] ▶ [Edit]

2 Edit the phonebook   ▶ [Yes]

Deleting phonebook

1 Stand-by  select a name  ▶ [Delete] ▶ [Delete one] ▶ [Yes]

i-mode/Full Browser

i-mode enables you to use online services, such as connection to sites and Internet.

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

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

Using i-mode

- Sites and Internet web pages are generally protected by copyright law. Selling and redistributing whole or a part of downloaded text, images or other data from 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 data 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.

Viewing i-mode site

1 Stand-by item ► select an item ►



Viewing web pages designed for PC


1 Custom [i-mode] ► [Full Browser Home]

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

Switching browsers

- Note that different transmission charges are incurred when switching between i-mode and Full Browser.

Switching from i-mode to Full Browser


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

Switching from Full Browser to i-mode

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

Viewing and operating sites

Selecting a link and moving to a new screen

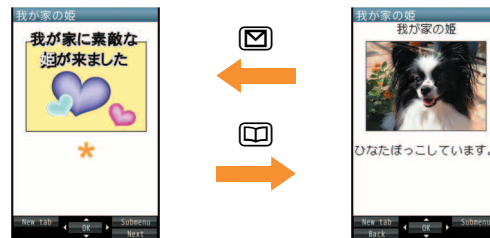
1 While viewing sites, select a link with  ▶





- A selected link is highlighted.
- Some links may be images. If you select, the image is outlined.

Moving to previous/next page

The FOMA terminal saves sites you viewed. You can view the previous/next page 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 . Likewise, when switching from Full Browser to i-mode, you can return to the page displayed with Full Browser by pressing .

Saving frequently viewed sites

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

1 While viewing sites,  ▶ [Bookmark] ▶ [Add bookmark] ▶ [OK]

2 Select a folder ▶ 

◆ **To view sites from bookmarks:** 
[i-mode] ▶ [Bookmark] ▶ select a bookmark ▶ 


- Bookmarks are listed in the order of use.
- Connection is made with i-mode from i-mode bookmarks, while it is made with Full Browser from Full Browser bookmarks.

Saving site contents

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

1 While viewing sites,  ▶ [Screen Memo] ▶ [Add 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]

◆ **To display screen memos:** 
[i-mode] ▶ [Screen Memo] ▶ select a screen memo ▶ 

- Some screens may not be added as screen memos depending on the site such as whose size is zero-byte or assigned not to be saved as screen memos.
- If you select a link in the screen memo, connection is made with i-mode for the screen memo of i-mode, while it is made with Full Browser for the screen memo of Full Browser.

i-Channel

※ The i-Channel service is provided in Japanese.

i-Channel is a service that sends news and other information. The latest information received automatically is displayed in the stand-by display using a ticker. Additionally, press the i-Channel supported key to display the latest information in a list of channels.

i-Channel is a paid service that requires a subscription (i-mode subscription is required).

There are two types of i-Channel as follows.

- “ベーシックチャネル” (Basic Channel): This is i-Channel provided by DOCOMO. Packet transmission charges are not incurred for automatically updating information.

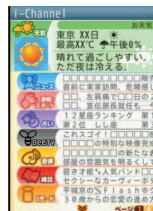
- “おこのみチャネル” (Okonomi (Optional) Channel): This is i-Channel provided by IP (Information Providers). Packet transmission charges are incurred for automatically updating information.

Note that packet transmission charges are incurred for when detailed information are viewed in both channels. Packet transmission charges are incurred for automatically updating information and viewing detailed information during international roaming.

Refer to “Mobile Phone User’s Guide [i-mode] FOMA version” for details on i-Channel.

Displaying i-Channel

1 Stand-by  (CH)



2 Select a channel  


Displaying i-Channel in stand-by display

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

1 Custom  [i-mode]  [i-Channel]  [i-Channel ticker]  [ON]

• The operation is completed if you set to [OFF].

2 Select the [Ticker font size] field  
select the size  

3 Select the [Ticker color] field    select the color  

4 Select the [Ticker speed] field    select the speed    

Camera

Screen layout and operations for shooting screen

Shooting screen layout

Still picture



- 1 Focus frame
- 2 Shooting status
- 3 Icon display position

Moving picture



- 4 Zoom bar
- 5 Shooting time

Meaning of main icons

	Focus lock		Image quality
	Picture Light		Size
	Brightness		Fix camera shake
	Auto timer		White balance
	Shoot by scene		

Main key operations for shooting screen

Change settings collectively		Select image quality	
Camera gallery		Shoot by scene	
Adjust brightness		White balance	
Adjust zoom*		Select save destination	
Switch camera-mode		Activate operation guide	
AF mode		Picture Light	

* Not available when the image size is Maximum.

Shooting still/moving pictures

- 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. In addition, shooting the sun directly may damage the performance of the CMOS.
- 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.
- Images shot in shooting conditions which include the sun, a light or other strong light source may appear dark and distorted.
- Shot still pictures or moving pictures may not be saved when the battery level is low.

Shooting still pictures

1 Custom [Camera] ▶ [Shoot still pic]

- When still pictures shooting is activated, the called LED illuminates.

2 to shoot

3 to save

Alternatively, **Stand-by** to activate still pictures shooting.



Shooting moving pictures

1 Custom [Camera] ▶ [Shoot movie]

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

2 to start shooting

3 to end shooting

4 [Save]

Confirming shot still/moving pictures

Displaying shot still pictures

1 Custom [Data box] ▶ [My picture]

2 [Camera] folder ▶ select an image ▶

- To set as stand-by display, etc.: [Set screen] ▶ select an item ▶





Playing shot moving pictures

1 Custom [Data box] ▶ [i-motion/Movie]

2 [Camera] folder ▶ select i-motion ▶

- To set as stand-by display, etc.: [AV settings] ▶ select an item ▶

Shooting by various methods

Function	Details	Setting/Starting method
Best select photo	Shoot continuously just before shutter operation. You can select and save your favorite picture.	In the still picture shooting screen,  ► [Shooting menu] ► [Continuous mode] ► [Best select photo]
Strobophoto	Shoot continuously and compose the combined image.	In the still picture shooting screen,  ► [Shooting menu] ► [Continuous mode] ► [Strobophoto]
Face registration	You can save a shot face image as face information, and display the saved face information in the still picture shooting screen.	In the still picture shooting screen,  ► [Camera settings] ► [Face registration] ► [Save new] ► register a face
Pretty arrange camera*	You can arrange a picture after shooting, by making a face smaller or making eyes bigger, etc.	 [Camera] ► [Pretty arrange cam]

* Respect personal rights and portrait rights when editing face images, to avert any legal issues.

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)

※ 1Seg is not available overseas.

About signal

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

In the following places, the reception status may be bad.

■ 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

※ 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.

● 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.

● You cannot use 1Seg overseas since the broadcasting format and the broadcasting frequency are different (You can watch 1Seg programs video-recorded on the FOMA terminal).





Setting channels

To watch 1Seg, set the channels first.

Auto channel setting





Select a prefecture/district to use. Broadcast station is automatically searched and saved into the channel list.

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

- 1 **Custom** [1Seg] ▶ [Channel setting]
- 2 Select a number to save ▶  ▶ [Auto channel set] ▶ [Yes]
- 3 Select an area ▶ 
- 4 Select a prefecture/district ▶ 
- 5  ▶ [Yes]


Preset channel setting

Select a prefecture/district to use and save into the channel list.

- 1 **Custom** [1Seg] ▶ [Channel setting]
- 2 Select a number to save ▶  ▶ [Preset CH setting]
- 3 Select an area ▶ 
- 4 Select a prefecture/district ▶ 
- 5  ▶ [Yes]

Watching 1Seg

- 1 **Custom** [1Seg] ▶ [Activate 1Seg]

Alternatively, **Stand-by**  (for at least 1 second) to activate 1Seg.



Screen layout and operations for watching screen

1Seg watching screen layout



Meaning of main icons

	Reception status of broadcast waves → (Strong → Weak)
	Icon indicating the recording status
	Operation mode
	Dolby Mobile setting
	Volume

Main key operations for 1Seg watching screen

- These key operations are for the video mode.

Select a station with UP/DOWN	
Select a station with one-touch operation	1 to 9 , (X) , 0 , (#)
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-alpha	
Record a video of 1Seg program	(for at least 1 second) ● To stop recording:
Record 1Seg programs as a still picture	
Switch between video mode and data broadcasting mode	
Switch between the display modes	(for at least 1 second)

Setting timer for starting or recording 1Seg

- Custom** [1Seg] ▶ [Timer List] ▶ ▶ [New]
- [Manual input] ▶ [Reception]/[Recording]
- Enter/Select an item ▶

Playing recorded videos

- Custom** [Data box] ▶ [1Seg]
- [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 Internet web pages, 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 set music programs, etc. are automatically distributed at night.

- 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).
- A separate fee may be required 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, however, packet transmission charges are incurred for connecting to i-mode if you do so. When going abroad, deactivate the distribution of programs in advance.
- 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.

Setting programs

1 **Custom** [MUSIC] ▶ [Music&Video ch] ▶ [Set program] ▶ [Yes]

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. Stock icon displayed differs depending on whether acquisition is successful/failed (P.21). If it failed, acquire the program manually.

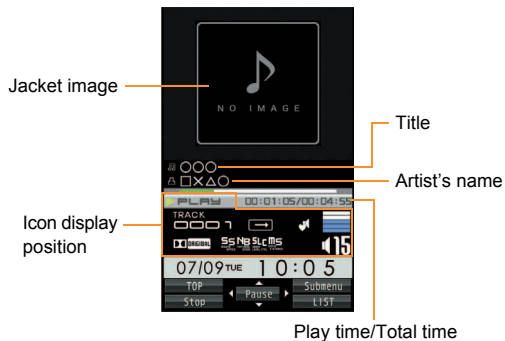
Playing programs

1 **Custom** [MUSIC] ▶ [Music&Video ch]

2 Select a program ▶

Screen layout and operations for MUSIC Player screen

MUSIC Player screen layout



Meaning of main icons

	Playback status
	Playback mode setting
	Dolby Mobile setting
	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
Display a jacket image	
Display a lyrics image	

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 Custom [Data box] ▶ [MUSIC]

2 Select music data ▶

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



i-appli/i-Widget

“i-appli” 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.

i-Widget is a convenient function used to access to contents (Widget Appli) such as stock prices only with i-Widget button (☉). You can add Widget Appli by downloading it from sites provided by IP (Information Provider), etc.

- Packet transmission charges are incurred when downloading i-appli and Widget Appli, and connecting to a site.
- If the i-Widget screen is displayed, multiple Widget Appli may communicate. In such cases, packet transmission charges are incurred.
- 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-appli/i-Widget.
- 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] ▶ [ケータイ電話メーカー] ▶ [SH-MODE]
 - Packet transmission charges are incurred when downloading.



QR code to connect to the site

Activating i-appli

1 Custom [i-appli] ▶ [Software list]

2 Select software ▶ ☉

Activating Widget Appli

Activate Widget Appli. If you paste the Widget Appli on the i-Widget screen, you can use it quickly next time.

1 Stand-by ☉

- i-Widget screen appears.

2 Select Widget Appli ▶ ☉

3 ☐ / CLR

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

i-motion/Movie

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 the downloaded i-motion.

Also, you can search for i-motion compatible sites in [メニューリスト] (Menu List) of iMenu.

In addition, you can play movies provided in portal sites, etc. on Internet with Internet movie player.

- 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.

Playable i-motion

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




* Some i-motion cannot be saved.

Playable movie

Streaming type	Movie is distributed in real time (live distribution). Movie prepared on server in advance is distributed (on-demand distribution).
----------------	--


Playing i-motion downloaded from sites

1 While viewing sites, select i-motion ▶

- To save i-motion: While i-motion is played/stopped (paused),
 ▶ [Save] ▶ select a save destination ▶ 
- When playing i-motion finished: [Save] ▶ select a save destination ▶ 
- You can play saved i-motion using the i-motion player.

Playing movies downloaded from sites

1 While viewing sites, select a movie ▶ ▶ [Yes] ▶ [Agree]

- To play movies saved to the Import folder of the microSD Card: **Custom** ▶ [LifeKit] ▶ [microSD] ▶ [Import] ▶ [i-motion/movie] ▶ select a movie ▶  ▶ [Agree]

Osaifu-Keitai

Osaifu-Keitai/ToruCa


Osaifu-Keitai is a function which has built-in IC card and allows you to pay, use as coupon tickets 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.

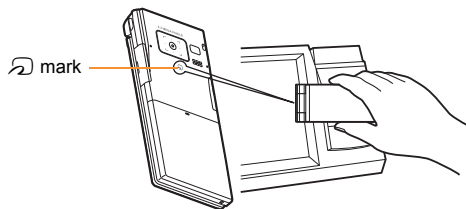
ToruCa is an electronic card that can be retrieved with Osaifu-Keitai. You can use ToruCa conveniently as fliers, restaurant cards, coupons, etc.

- 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 mark 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.

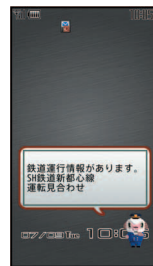
“i-concier” is a service to support your life like butler or concierge. It can keep your various data and timely provide information tailored to your living area or current location, or hobby and interests. i-concier information is provided by Machi-chara (a character in the stand-by display) in the 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.
- Packet transmission charges are incurred for automatically updating i-schedule, ToruCa, or phonebook.
- Refer to “Mobile Phone User’s Guide [i-mode] FOMA version” for details on i-concier.

Receiving information

1 Receive information

- A popup message appears in the stand-by display.



“ひつじのしつじくん”
©NTT DOCOMO

2 ④ ▶ select the message ▶ ④

3 Select the information

Displaying i-concier screen

1 Custom [i-concier]

2 Select the information

3 ④ to retrieve the detailed information

Convenient Tools

Using schedules

- 1 **Custom** [LifeKit] ▶ [Classic schedule]
 - To check a schedule: Select a date with select a schedule

- 2 ▶ [New]

- 3 Enter/Select an item ▶

Using alarm

- 1 **Custom** [LifeKit] ▶ [Alarm]

- 2 Select a number to save ▶

- 3 Enter/Select an item ▶

Using bar code reader

You can connect to i-mode or Full Browser, compose a mail, make voice/videophone calls, compose SMS and run i-appli with scanned text from bar codes (JAN/QR codes).

- 1 **Custom** [Camera] ▶ [Bar code reader]

- 2 Press to scan

- Position the camera 10 cm or more from the bar code.

- 3 Use the scanned results

Mainly, the following codes can be scanned.

JAN code



Scanned result:
[4942857119022]

QR code



Scanned result:
[株式会社NTTドコモ]



Other convenient tools

Function name	Details	Setting/Starting method
Quick Stand-by Clock setting	You can set to temporarily display the clock enlarged in the stand-by display when you open the FOMA terminal.	Custom [Settings] ▶ [Disp/LED/Power saver] ▶ [Stand-by settings] ▶ [Quick StdbbyCLK] ▶ [ON]
Built-in dictionary	You can activate the built-in dictionary of Quick search by one-touch operation from the stand-by display and search the meaning of words with the selected dictionary. Also, you can search another word from search results.	Stand-by
Shot memo	You can use images as memos by correcting tilt of shot images, or correcting characters with white background to read easily.	Custom [Camera] ▶ [Shot memo]
Kanji/English Grabber	You can scan kanji and English words and display readings or meanings.	Custom [Camera] ▶ [Kanji/English Grabber]
Column reader	You can scan an article in newspaper or magazine and compose a mail or a text memo.	Custom [Camera] ▶ [Column reader]
Card reader	You can scan a business card (Japanese/English) and newly save to the phonebook.	Custom [Camera] ▶ [Card reader]
Information reader	You can scan information such as store name, phone number, etc. from a magazine, etc. and newly save it to the phonebook.	Custom [Camera] ▶ [Information reader]
Camera gallery	You can search and display still pictures or moving pictures shot with the FOMA terminal in data of the handset or microSD Card according to year-month bracket.	Stand-by ▶ [Camera gallery]
PDF Viewer	You can display PDF data.	Custom [LifeKit] ▶ [PDF Viewer] ▶ select a file ▶
Document Viewer	You can display Microsoft Word, Microsoft Excel, and image files, etc.	Custom [LifeKit] ▶ [Document Viewer] ▶ select a file ▶
Manga&BookReader	You can display e-book/e-dictionary/e-comic.	Custom [LifeKit] ▶ [Manga&BookReader] ▶ select data ▶
Simulated call	You can receive or make a simulated call.	Custom [LifeKit] ▶ [Simulated call]

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-09B is compatible with commercially available microSD Card of up to 2 GB and microSDHC Card of up to 16 GB (as of June 2010). Refer to the following sites (in Japanese only) for the latest information 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 June 2010)

[iMenu] ▶ [メニューリスト] ▶ [ケータイ電話メーカー] ▶
[SH-MODE]

■ From a PC

<http://k-tai.sharp.co.jp/support/d/sh-09b/>

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

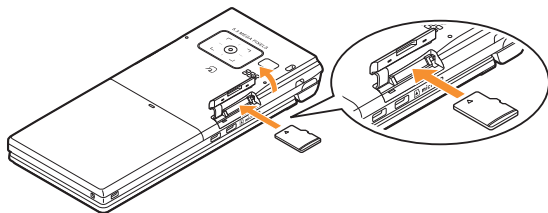
- Do not insert or remove a microSD Card while the FOMA terminal is on. Data may be damaged and operation may not work properly.

- 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.
- 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.
- There is no guarantee for the save and copy of data since the microSD Card which is not compatible with copyright protection functions is unsupported by FOMA terminal.

Inserting/Removing microSD Card

1 Insert the microSD Card with the metal terminal side turned down

- Gently push the microSD Card in before removing.



- Push the microSD Card until it clicks when inserting/removing it.
- 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

1 Custom [LifeKit] ▶ [microSD] ▶ [Format]

2 Enter the terminal security code ▶ ▶ [Yes]

- Note that all the data in the microSD Card is deleted when formatted.

Copying data to microSD Card/FOMA terminal

Example: i-motion

1 Custom [Data box] ▶ [i-motion/Movie] (▶ [→microSD])*

* When the save destination is microSD

2 Select i-motion ▶ ▶ [Move/Copy] ▶ [Copy to microSD]/[Copy to the phone]

3 [Copy one] ▶ select the copy destination folder ▶

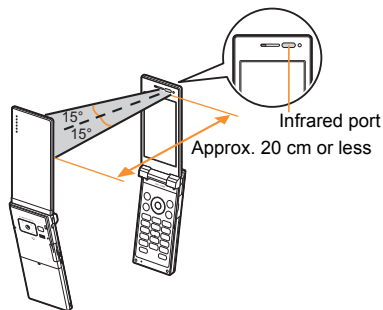
Backing up data to microSD Card

You can collectively backup phonebook, mail, schedule, bookmark, text memo, settings and information of the FOMA terminal to microSD Card.

1 Custom [LifeKit] ▶ [microSD] ▶ [Backup/recovery all] ▶ [Backup to microSD]

2 Enter the terminal security code ▶ ▶ [Yes]

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.

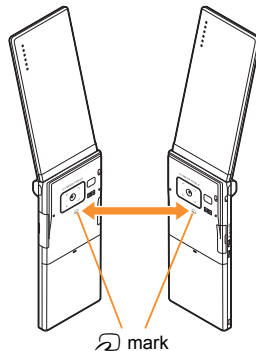
Sending data

1 Select data ▶ ▶ [Send data] ▶ [Send Ir data] ▶ [Send] ▶ [Yes]

Receiving data

1 Custom ▶ [LifeKit] ▶ [Receive Ir data] ▶ [Receive] ▶ [Yes] ▶ [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

1 Select data ▶ ▶ [Send data] ▶ [iC transmission] ▶ [Send] ▶ [Yes] ▶ place the marks together

Receiving data

1 Stand-by ▶ place the marks together
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 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.

Troubleshooting

- First, check whether the software update is required. If it is required, update the software (P.73).
- 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.16
● 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.16
● Is the adapter power plug inserted into the outlet or cigarette lighter socket properly?	P.17
● Are the adapter and the FOMA terminal set properly?	P.17
● When using the AC adapter (sold separately), is the connector of the AC adapter properly connected to the FOMA terminal or the desktop holder (sold separately)?	P.17
● 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 cloth or cotton swab.	P.17
● 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-αpli, making a videophone call, or watching 1Seg for a long time with charging. There is no safety hazard.	—
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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 cloth or a 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.34
● Make sure the FOMA terminal is not turned off.	P.19


UIM does not recognize

● Is a UIM inserted facing right direction?	P.16
● Make sure the UIM (blue) is not inserted.	P.16

Calling

Calls cannot be made with the dial	
● Make sure All lock is not set.	P.34
● Make sure Keypad dial lock is not set.	P.34
● Make sure self mode is not set.	P.34
Connection cannot be made ([) 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.	P.16 P.19
● Depending on the signal type, even though status is “inside the service area” or “[] (indicating signal status) appears”, making/receiving a call may not be available. Move to another place and call again.	P.20
● Make sure Accept calls/Reject calls 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.	—

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.	P.34
● Make sure IC card lock is not set.	P.34
● Is the  mark of the FOMA terminal held over the scanning device?	P.62

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 “Support Book” (in Japanese only) contained in the FOMA terminal before requesting repairs. Contact the number listed in Repairs (in Japanese only) on the back of this manual if problems persist.

If your FOMA terminal needs repairs after contacting DOCOMO

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

During the warranty period

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

Repairs may not be possible in the following circumstances.

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

After the warranty period has expired

Charged repairs will be carried out upon request.

Replacement parts

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

IMPORTANT!

- Never attempt to modify the FOMA terminal or its accessories.
 - Repairs may be refused depending on the extent of the modification. The following cases may be considered as a modification.
 - Stickers are applied to the LCD or keys
 - Decorations are made to the FOMA terminal with adhesive agent
 - Exterior parts are replaced with those which are not standard DOCOMO product
 - Repairs for any malfunction or damage caused by such modifications will incur fees, even during the warranty period.

- Do not peel off the model nameplate attached to the FOMA terminal.
 - If the nameplate seal does not function as a certification, repairs may be refused because conformity to the standards cannot be determined.

技術基準適合認証品

- Information stored in your FOMA terminal, such as the settings of various functions and the total call duration, may be cleared or reset if your FOMA terminal is damaged, repaired, or mishandled.
 - If this occurs, please re-enter the information or re-specify the settings.
- The following sections of the FOMA terminal contain parts that generate magnetic waves. Keep ATM cards and other objects likely to be affected by magnetic waves away from the FOMA terminal. Cards may become unusable.
 - Sections: speaker, mouthpiece
- If the 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] ▶ [サービス・機能] ▶ [iモード] ▶ [iモード故障診断]

- Packet transmission charges are not incurred for the i-mode fault diagnosis.
 - Access from abroad is charged.



QR code to connect to the site

Updating software

You can update software if the FOMA terminal software need to be updated using packet transmission.

※ Packet transmission charges are not incurred.

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.
- Updating software is not available overseas.

Starting software update from stock icon

When the software is automatically downloaded, the stock icon appears in the stand-by display (P.21).

1 **Stand-by**  **▶ select the stock icon [OK]**
(Update required) ▶ 

2 **[OK]**

- To set the day of week and time: [Change]
- To rewrite immediately: [Now rewrite]

Starting software update from menu screen

1 **Custom** **[Settings] ▶ [General settings] ▶**
[Software update]

2 **Enter the terminal security code ▶**  **▶**
[Set auto-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. Therefore, 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.

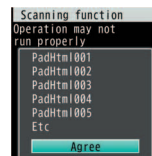
1 **Custom** [Settings] ▶ [General settings] ▶ [Scanning function] ▶ [Update] ▶ [Yes] ▶ [Yes]

2  when updating is completed

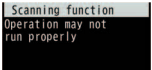
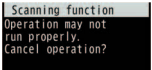
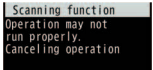
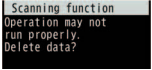
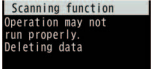
Displaying scanned results

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. [Etc] appears below the fifth error name 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
		
[Agree]: To display/activate/call	[Yes]: To cancel [No]: To display/activate/call	[Agree]: To end
Level 3	Level 4	
		
[Yes]: To the delete confirmation screen [No]: To end without deleting	[Agree]: 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 SH42
- Desktop Holder SH33
- 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 01*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
- FOMA Dry Battery Adapter 01
- Carry Case L 01

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

*1 Refer to P.18 for details on charging with an AC adapter.

*2 Connect Earphone Plug Adapter for External connector terminal 01 and Earphone Plug Adapter to use these options and related devices.

*3 Connect Earphone Plug Adapter for External connector terminal 01 to use these options and related devices.

*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-09B.

Appendix

Menu list

- When settings are reset by Reset settings (P.35), functions return to default settings (marked with).
- Some items may include functions which do not return to default settings.

Custom menu/Basic menu list

- Depending on the Kisekai tool set in the custom menu, the function names may differ from those described.

i-mode menu

i-mode	
iMenu/Search	
Bookmark	
Screen Memo	
Last URL	
Enter URL	Enter URL
	URL enter history
i-Channel	Run i-Channel list
	i-Channel ticker
	Reset i-Channel
i-mode setting	i-mode Browser Set.
	Full Browser Set.
	Common Settings
	Check i-mode setting
	Reset i-mode setting
RSS reader	
Full Browser Home	

i-appli menu

i-appli	
Software list	
i-appli call logs	
i-appli setting	i-appli volume
	Software info
	Auto start
	Power saver set
	i-appli call DL
	i-Widget roaming
	i-Widget sound fx
Used by i-appli	
Info	Auto start error
	Force quit history
	Security error
	Trace info

Camera menu

Camera (1/2)
Shoot still pic
Shoot movie
Shot memo
Kanji/English Grabber
Pretty arrange cam
Column reader
Bar code reader
Card reader
Information reader
Motiondeco

Camera (2/2)
Shotdeco
Cameraloupe

Mail menu

Mail (1/2)	
Inbox	
Compose message	
Outbox	
Unsent messages	
Compose Decome-Anime	
Compose SMS	
Check new messages	
Check new SMS	
Receive option	Receive option
	Receive opt. set
Template	Decome-Template
	Decome-Anime Template
Mail (2/2)	
Mail setting	Quick reply mail
	Rcv attached file
	Melody Auto replay
	Font size setting
	Rcv/Auto send disp
	Check new message
	Direct detail disp
	Auto message display
	Receive opt. set
	Blog/SNS settings
	Mail member
	Save signature
	Mail ticker set

Mail (2/2)	
Mail setting	SMS setting
	Area Mail setting
	Auto save at edit
	Mark read after pv
	Check mail set
	Reset mail settings
	Secret mail settings
	Address/Spam Mail Settings

Settings menu

Settings	
Snd/Vibrator/Manner	Select volume
	Select sound
	Vibrator
	Manner mode
	Motion silent
	Headset setting
	Mail ring time set
	Set mute ring time
Disp/LED/Power saver	Hold/On hold tone
	Sound playback
	Stand-by settings
	Font style
	Color/Graphic set
	LED settings
	Display img quality
	Light/Power saver
	VeilView
	Menu priority

Settings	
General settings	Check status
	Text input setting
	Auto power ON/OFF
	Date settings
	Select language
	Auto SW vert/horiz
	USB mode setting
	Scanning function
	Software update
	Reset settings
NW Services	Voice Mail
	Call waiting
	Call Forwarding
	Nuis. call blocking
	Notify caller ID
	Caller ID request
	Talk time/cost
	2in1 setting
	In-call arrival act
Other NW Services	Remote access
	Dual network
	English guidance
	Contact DOCOMO
	Additional service
	Multi number
	Chaku-moji
	Roaming guidance

Settings	
Phone settings	In-call settings
	Headset sw to call
	Incoming settings
	Videophone set
	Record message
	Set when closed
	Self mode
	Femtocell setting
	Other settings
	Secret mode
Security	UIM Settings
	Accept/Reject calls
	Show call/received
	Show sent/received
	Lock settings
	Change security code
i-concier settings	Delete all data
	Incoming settings
	Information display
Battery	Battery level
	Battery icon
	Icon% temp display
Initial setting	

Phone menu

Phone
Phonebook
Redial
Received calls
Own number

Osaifu-Keitai menu

Osaifu-Keitai	
IC card content	
DCMX	
ToruCa	
IC card lock	IC lock(power-on)
	IC lock(power-off)
Setting	ToruCa from IC card
	ToruCa from 1Seg
	ToruCa duple check
	ToruCa auto read
	ToruCa auto disp
	ToruCa sound fx
Check IC owner	
Change IC owner	
Search by i-mode	

Data box menu

Data box (1/2)	
My picture	
MUSIC	
Music&Video ch	
i-motion/Movie	
1Seg	
Melody	
My Documents	
Kisekae Tool	
Machi-chara	
Chara-den	
Data box (2/2)	
Data box search	
Album	

i-concier menu

i-concier	
i-concier	

1Seg menu

1Seg	
Activate 1Seg	
Program guide	
Timer List	
Reserve rec hist	
TVlink	
Channel setting	
1Seg settings	Recording to
	Erase storage area
	Image display set.
	Sound FX
	1Seg status
	Reset status disp
	Reset 1Seg

LifeKit menu

LifeKit (1/3)	
Bar code reader	
Receive Ir data	Receive
	Receive all
microSD	Bulk sort microSD
	View microSD data
	Backup/recovery all
	Indiv backup/restore
	Import
	New manager info
	Format
	USB mode setting

LifeKit (1/3)	
Simulated call	Run simulated call
	Select ring tone
	Calling timing set
	Setting when silent
Shot memo	
Kanji/English Grabber	
Wellness	Run i-appli
	Check no. of steps
	Register profile
	Settings
Text memo	
Schedule	
Alarm	
LifeKit (2/3)	
Calculator	
Timer	
Card reader	
Information reader	
Data Sec. Service	
Wakeup TV	
Manga&BookReader	
Document Viewer	
PDF Viewer	
Voice recorder	
LifeKit (3/3)	
Voice memo/Rec msg	
Classic schedule	
Quick search	

MUSIC menu

MUSIC	
MUSIC Player	
Music&Video ch	

Other functions

Earpiece volume	
Videophone	
Manner mode	
Omakase Lock	
EmojiPlus	
Shortcut menu	
Character Entry	Chara entry/dict

Main specifications

Package

Product name			SH-09B
Size			Approx. 112 (H) × Approx. 49 (W) × Approx. 11.4 (D) mm (Approx. 14.2 mm at thickest point) (when folded)
Weight			Approx. 114 g (with battery pack attached)
Continuous talk time*1, 2	FOMA/3G		Voice call: Approx. 200 min Videophone: Approx. 130 min
	GSM		Voice call: Approx. 190 min
Continuous stand-by time*2, 3	FOMA/3G	3G/GSM setting: 3G	When mobile: Approx. 350 hr*4
		3G/GSM setting: AUTO	When mobile: Approx. 330 hr*4 At rest: Approx. 520 hr*5
	GSM	3G/GSM setting: AUTO	At rest: Approx. 310 hr*5
	1Seg watching time		
Charge time			AC adapter: Approx. 120 min
			DC adapter: Approx. 120 min
LCD	Type	New Mobile ASV LCD 16,777,216 colors	
	Size	Approx. 3.2 inches	
	Pixels	409,920 pixels (480 × 854 dots)	
Image pickup device	Type	CMOS*6	
	Size	1/4.0 inches	

Camera	Effective pixels	Approx. 5.3 million pixels
	Recorded pixels (Max.)	Approx. 5.0 million pixels
	Zoom (Digital)	Up to approx. 22.0×
Picture light source LED characteristics		a) Continuous illumination b) Wavelength White: 400-700 nm c) Maximum output White: 215 μ W (inside FOMA terminal 0.62 mW)
Recording	Number of still pictures recorded	Approx. 540 shots ^{*7, 8} Approx. 60,000 shots (when saved in 2 GB microSD Card) ^{*7}
	Continuous shooting of still pictures	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. 36 min each ^{*9} Approx. 60 min each (when saved in 2 GB microSD Card) ^{*9}
	File format for moving picture	MP4
Music playback	Continuous playback time	i-motion: Approx. 500 min ^{*10} Chaku-uta full® (Compatible with background playback): Approx. 1,230 min ^{*10} WMA file (Compatible with background playback): Approx. 1,140 min ^{*11} Music&Video Channel (voice) (Compatible with background playback): Approx. 1,200 min Music&Video Channel (moving picture): Approx. 500 min

Memory capacity	Chaku-uta®	Approx. 88 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 CMOS (Complementary Metal-Oxide Semiconductor) is an image device equivalent to the film of silver salt cameras.
- *7 Image size: QVGA (240 × 320 dots)/Image quality: NORMAL/File size: 25 KB
- *8 The number is the number of still pictures that can be shot when not deleting the data which is registered in advance.
- *9 Image size: sQCIF (128 × 96 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 Documents, Kisekai 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. 25 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 entries in the FOMA terminal

Data type		Number of applicable entries to be saved/registered
Phonebook		1,000* ¹
1Seg	TVlink	100
	Reception/Recording	50* ²
Schedule	Schedule	2,500
	Vacation	100
	Holiday	20* ³
Text memo		10
Mail (The total number of SMS and i-mode mail)	Received mail	2,500* ^{4, 5, 6}
	Sent mail	500* ^{4, 5}
	Unsent mail	500* ⁵
Deco-mail templates		100* ⁶
Decome-Anime Templates		100* ⁶
Message	Message R	50* ⁵
	Message F	50* ⁵
Bookmark		200
Screen memo		400* ⁵
Download dictionary		9* ⁷
i-αpli		100* ^{5, 6}
Image		2,000* ^{5, 6, 8}
Moving picture/i-motion		100* ^{5, 6}
Kisekae tool		50* ^{5, 6}
Machi-chara		50* ^{5, 6}
Chara-den		50* ^{5, 6}
Melody		500* ⁵
PDF data		50* ^{5, 6}
ToruCa		200* ⁵

Data type	Number of applicable entries to be saved/registered
e-book/e-dictionary/e-comic	1,000* ^{5, 6}
1Seg video	99* ⁵
Font (TTF)	1

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

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

*3 You can save holidays besides national holidays already saved.

*4 In addition, you can save up to 20 received and sent SMS in the UIM.

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

*6 Pre-installed data which can be deleted is included.

*7 You can set up to five dictionaries.

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

Specific Absorption Rate (SAR) of mobile phone

This model phone SH-09B meets the MIC's* technical regulation for exposure to radio waves.

The technical regulation established permitted levels of radio frequency energy, based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The regulation employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit is 2 watts/kilogram (W/kg)** averaged over ten grams of tissue. The limit includes a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The value of the limit is equal to the international guidelines recommended by ICNIRP***.

All phone models should be confirmed to comply with the regulation, before they are available for sale to the public. The highest SAR value for this model phone is 0.514 W/kg. It was taken by the Telecom Engineering Center (TELEC), a Registered Certification Agency on the Radio Law. The test for SAR was conducted in accordance with the MIC testing procedure using standard operating positions with the phone transmitting at its highest permitted power level in all tested frequency bands. While there may be differences between the SAR levels of various phones and at various positions, they all meet the MIC's technical regulation. Although the SAR is determined at the highest certified power level, the actual SAR of the phone during operation can be well below the maximum value. For further information about SAR, please see the following websites:

World Health Organization (WHO)

<http://www.who.int/peh-emf/en/>

ICNIRP

<http://www.icnirp.de/>

MIC

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

TELEC

http://www.telec.or.jp/ENG/Index_e.htm

NTT DOCOMO

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

SHARP Corporation

<http://www.sharp.co.jp/products/menu/phone/cellular/sar/index.html>
(in Japanese only)

* Ministry of Internal Affairs and Communications

** The technical regulation is provided in Article 14-2 of the Ministry Ordinance Regulating Radio Equipment.

*** International Commission on Non-Ionizing Radiation Protection

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 0.592 W/kg*.

As SAR is measured utilizing the device's 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

CE 0168

Hereby, Sharp Telecommunications of Europe Ltd, declares that this SH-09B 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 0.651 W/kg and when worn on the body, as described in this user guide, is 0.684 W/kg. Body-worn Operation; This device was tested for typical body-worn operations with the back of the handset kept 1.5 cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.5 cm separation distance between the user's body and the back of the handset. The use of beltclips, holsters and similar accessories should not contain metallic components in its assembly.

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

The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model handset is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/ea/fccid/> after searching on FCC ID APYHRO00122. 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

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 - Windows 7 is an abbreviation of Microsoft® Windows® 7 (Starter, Home Basic, Home Premium, Professional, Enterprise, Ultimate).
 - Windows Vista is an abbreviation of Windows Vista® (Home Basic, Home Premium, Business, Enterprise, Ultimate).
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Index

Numerics

1Seg.	54
1Seg watching screen	56
2in1	39

A

AC adapter.	18
Activate 1Seg.	55
Activate i-appli	60
Activate Widget Appli	60
Add to phonebook	46
Address/Spam mail settings	19
After-Sales Services	71
Alarm	64
All lock	34
Appendix	76
Assign function.	29
Attach battery pack	16
Attach UIM (FOMA card)	16
Auto channel setting	55
Auto receive mail	44
Available services overseas.	42

B

Backup to microSD	67
Bar code reader	64
Before use	16
Before using 1Seg	54
Bookmark.	49

Brightness.	31
---------------------	----

C

Call	37
Call Forwarding Service	39, 40
Call Waiting.	39, 40
Called LED	30
Caller ID Request Service	39
Camera.	51
Change screen display	28
Channel setting.	55
Character entry	25
Charge	17
Check new messages.	44
Classic schedule.	64
Contents	1
Convenient tools.	64
Copy characters	26
Copy to microSD.	67
Copy to the phone	67
Cut characters	26

D

Data Management	66
Delete phonebook.	46
Delete user data	35
Desktop holder	17
Display i-Channel	50
Display light time.	31
Display scanned results	74

Display shot still pictures	52
Display/Icon	20
Download Chaku-uta full®	59
Download/Play i-motion.	61
Download/Play movie	61
Dual Network Service	39

E

Early warning "Area Mail"	45
Earpiece volume	38
Edit phonebook	46
English Guidance	39
Enter characters	25
Enter emoticons	26
Enter pictograms	26
Export Administration Regulations	86

F

FeliCa	
Osaifu-Keitai	62
Scan.	62
FOMA terminal	2
Font size setting	29
Format microSD Card	67
Full Browser	47
Full Browser home	47
Function lock	34

H

Handling precautions.	13
-------------------------------	----

I

i-appli	60
IC card lock	34
iC communication	68
i-Channel	50
i-Channel ticker setting	50
i-concier	63
i-concier screen	63
i-mode	47
i-mode fault diagnosis site	72
i-mode password	33
i-motion	61
Inbox	44
Incoming call restriction	35
Initial setting	19
Insert microSD Card	67
Intellectual Property Right	86
International call	38
Ir communication	68
i-Widget	60
i-Widget screen	21

K

Key operation	23
Key operations for 1Seg watching screen	56
Key operations for MUSIC Player screen	59
Key operations for shooting screen	51
Key sound	27
Keypad dial lock	34
Keypad light setting	31
Kisekae tool	29

L

Light/Power saver	30
Lock/Security	32

M

Machi-chara	29
Mail	43
Main menu	22
Main specifications	81
Make a call	37
Make a call from phonebook	37
Make a call in your country of stay	42
Make a call outside your country of stay (including Japan)	42
Make a call to a WORLD WING subscriber	42
Make a videophone call	37
Manage folder	45
Manner mode	28
Melody Call	39
Menu list	76
Menu operation	24
Menu priority	22
microSD Card	66
Motion silent	28
Move page	48
Movie	61
Multi lock	34
Multi Number	39
Music	57
MUSIC Player	59
MUSIC Player screen	58
Music&Video Channel	57

N

Network security code	32
Network service	39
Notice LED	30
Notify Caller ID	37
Notify Caller ID Service	39
Nuisance Call Blocking Service	39

O

OFFICEED	39
Omakase Lock	34
Options and related devices	75
Original eco mode	31
Osaifu-Keitai	62
Other convenient tools	65
Overseas use	41
Own number	19

P

Part names and functions	4
Paste characters	26
PC connection	69
Phonebook	46
PIN1 code/PIN2 code	33
Play program	58
Play shot moving pictures	52
Play videos recorded 1Seg	56
Power on/off	19
Precautions	6
Preset channel setting	55
Program setting	58
Public mode (Drive mode)	39
Public mode (Power off)	39

PUK (PIN Unlock Key)	33
--------------------------------	----

R

Receive a call	38
Receive a videophone call	38
Receive data	
iC communication	68
Ir communication	68
Receive information	63
Receive setting	45
Receive SMS	45
Received calls	
Add phonebook entries	46
Phone	37
Reception	56
Record message	39
Recording	56
Redial	
Add phonebook entries	46
Phone	37
Reject calls by reason of non-disclosure	35
Reject unknown	35
Remote reset	36
Reply to i-mode mail	44
Reset settings	35

S

Save owner information	19
Scanning function	74
Screen display time	31
Screen explanation	20
Screen memo	49
Security code	32

Security Scan (Scanning function)	74
Select a link	48
Select ring tone	27
Select volume	27
Self mode	34
Send data	
iC communication	68
Ir communication	68
Send Deco-mail	43
Send Decome-Anime	44
Send i-mode mail	43
Send SMS	45
Services available for the FOMA terminal	40
Shoot moving picture	52
Shoot still picture	52
Shooting screen	51
SMS	45
Sort rules	45
Sound/Screen setting	27
Specific absorption rate (SAR) of mobile phone	84
Stand-by settings	28
Stock icon	21
Submenu	24
Support	70
Switch browsers	48
Switch entry modes	25
Switch to Full Browser	48
Switch to i-mode	48
Symbol input	26

T

Terminal security code	32
----------------------------------	----

Triple Kukkiri Talk	37
Troubleshooting	70

U

Update pattern definitions	74
Update software	73
Update from menu screen	73
Update from stock icon	73
Use phrases	26

V

Various functions for shooting	53
Various lock functions	34
VeilView	28
Vibrator	27
View and operate sites	48
View i-mode site	47
Voice Mail Service	39, 40

W

Warranty	71
Warranty and After-Sales Service	71
What you can do with SH-09B	3
WORLD CALL	38
WORLD WING	41

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.

■ 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 Support Book (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・PHS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 9:00 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)

i (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-09B, 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.



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.

Repairs

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

■ From DOCOMO mobile phones ■ From land-line phones

(In Japanese only)

(In Japanese only)

i (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-09B, 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.

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.

*10.6 (1st Edition)
10F MS96①

SH-09B

Manual for PC Connection

● Data communication	1
● Before using data communication	2
● Flow of setup for data transfer (OBEX™ communication)	3
● Flow of setup for data communication	4
● Connecting up PC to the FOMA terminal	5
● Installing FOMA communication configuration file	6
● Set network transmission with DOCOMO Connection Manager	10
● Set network transmission without using DOCOMO Connection Manager	16
● Sending and receiving data (OBEX™ communication)	26
● List of AT command	28

Manual for PC Connection

This manual explains the necessary items to perform the data communication with SH-09B and the installation methods of "FOMA communication configuration file" and "DOCOMO Connection Manager" in the CD-ROM.

The operation procedure and screens may be partly different depending on the use environment.

Data communication

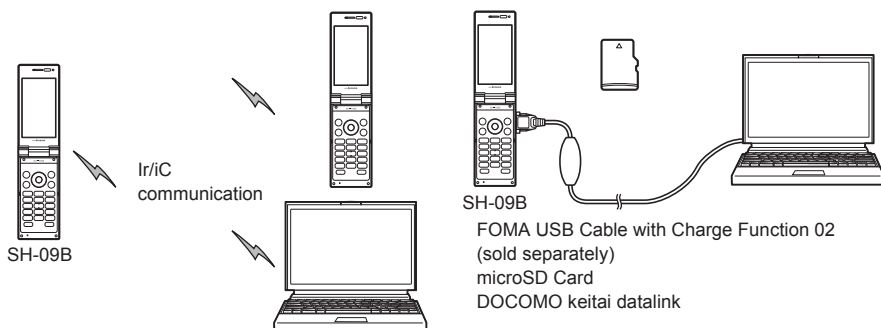
Data communication available for the FOMA terminal

The FOMA terminal communication formats fall into three categories: packet transmission, 64K data communication and data transfer.

- The FOMA terminal does not support fax transmissions.
- The FOMA terminal supports data communication with **sigmarion III**. 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 384 kbps 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 384 kbps) are the values based on the technical standard, and not the actual transmission speed. The actual transmission speed varies depending on the network congestion or transmission environment.
- The transmission speeds may slow outside the FOMA HIGH-SPEED area or when connecting to the access point that does not support HIGH-SPEED or when using the device that does not support HIGH-SPEED such as DOCOMO's PDA "sigmarion III".

For a packet transmission, connect the FOMA terminal to a device such as a PC using FOMA USB Cable with Charge Function 02 (sold separately) 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
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 upgraded 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-09B 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

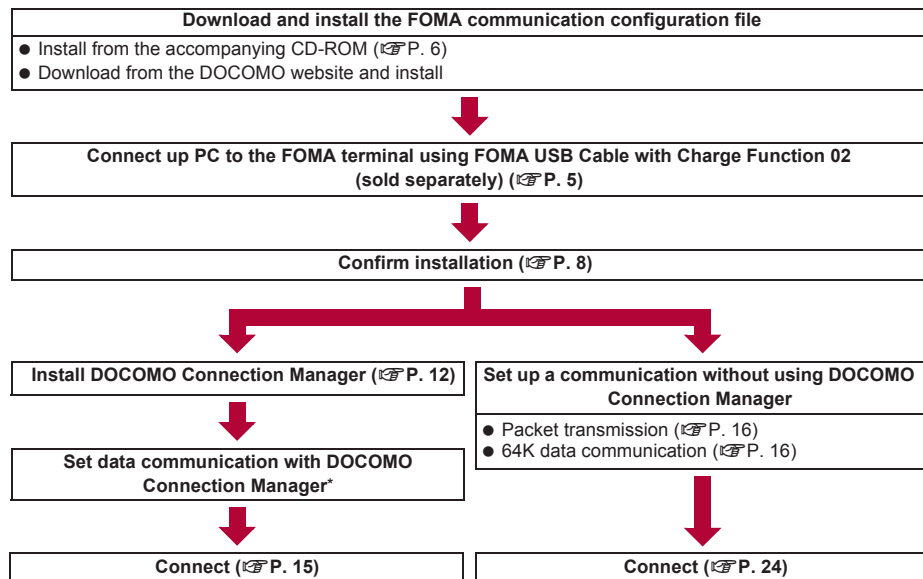
- Install from the accompanying CD-ROM (P. 6)
- Download from the DOCOMO website and install



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 "mopera U" (subscription necessary) for the broadband Internet connection, etc. 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 SH09B] 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. 9) and install it again.
- If, for some reason, the PC is unable to recognize the FOMA terminal, uninstall the FOMA communication configuration file (P. 9) 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).

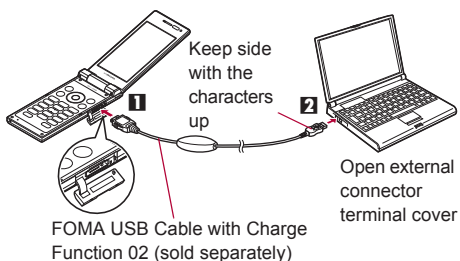
Connecting up PC to the FOMA terminal

Connect the FOMA terminal to your PC with both devices turned on. If the FOMA communication configuration file is already installed, [2] 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 (see 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).

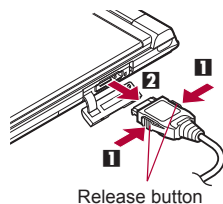


How to remove

1 Hold the release button 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.
- 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).
- 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)

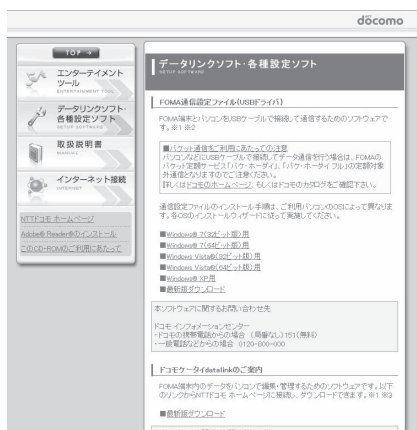
- 1 Click [Windows Vista® (32ビット版) 用] (For Windows Vista® (32 bit version)).

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 [SH09Bs.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 SH09BとPCをFOMA USB接続ケーブルにて接続してください。] (Connect the FOMA SH09B 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 SH09Bドライバのインストールが完了しました。] (Installation of FOMA SH09B 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).

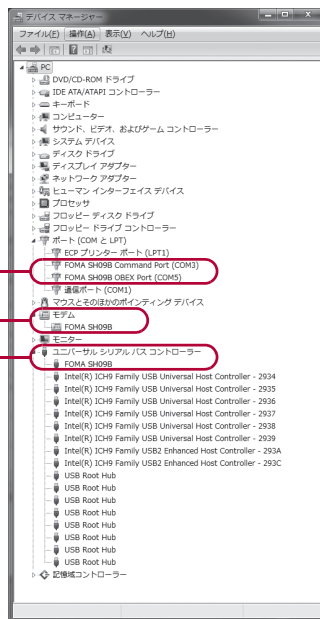
3 Click on each device, and confirm the name of the installed device.

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	● FOMA SH09B
For Windows XP USB (Universal Serial Bus) controllers	
Ports (COM and LPT)	● FOMA SH09B Command Port (COMx)* ● FOMA SH09B OBEX Port (COMx)*
Modem	● FOMA SH09B

* 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 SH09B] 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).

■ 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 SH09B USB].

For Windows XP

1 Select [FOMA SH09B USB].

2 Click [変更と削除] (Change/Remove).

3 When [FOMA SH09B ドライバーのアンインストールを行います。] (Uninstall FOMA SH09B 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 SH09B 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 "SH09Bc.exe" in the ¥SH-09B_driver_win7_32¥Win7_32 folder* of the accompanying CD-ROM to uninstall.

- * For Windows 7 (64 bit version): In the ¥SH-09B_driver_win7_64¥Win7_64 folder
For Windows Vista (32 bit version): In the ¥SH-09B_driver_vista32¥WinVista32 folder
For Windows Vista (64 bit version): In the ¥SH-09B_driver_vista64¥WinVista64 folder
For Windows XP: In the ¥SH-09B_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).

- 1 Perform steps 1 and 2 of “Installing FOMA communication configuration file (Driver)” on P. 6.
- 2 Double-click [SH_DeleteMetadata.exe].
- 3 Click [削除開始] (Start deleting).
- 4 When the uninstall complete screen appears, click [OK].
 - Deletion of the device metadata finishes.

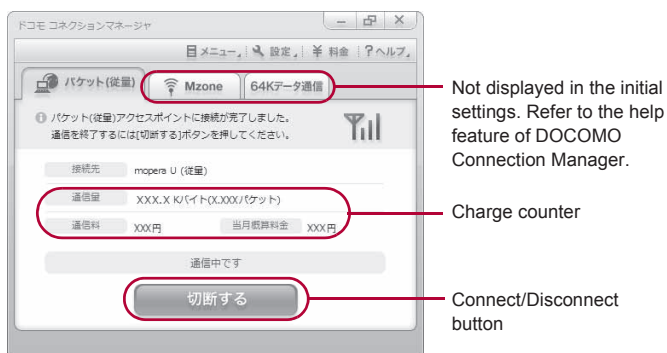
- When [プログラム互換性アシスタント] (Program Compatibility Assistant) appears, click [このプログラムは正しくインストールされました] (This program installed correctly).

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

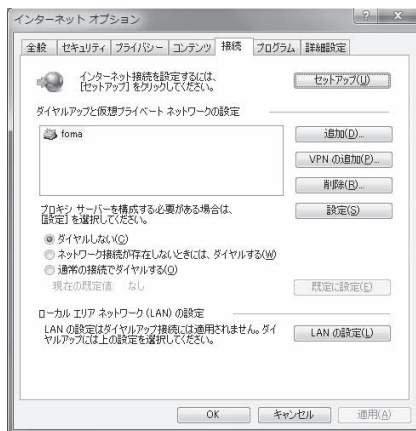
If the connection software other than DOCOMO Connection Manager is installed, change the setting as necessary not to activate automatically.

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 (public wireless LAN connection) 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 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.

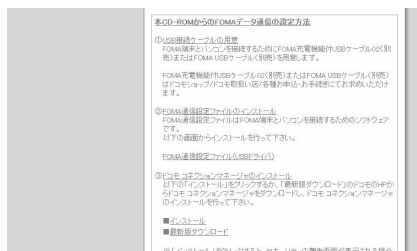


2 Click [インターネット接続] (Internet connection) ▶ [インストール] (Install) of [③ドコモ コネクションマネージャのインストール] (③ Install DOCOMO Connection Manager) in the [本CD-ROMからのFOMAデータ通信の設定方法] (Setting method for FOMA data communication using this CD-ROM) field.

- 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).

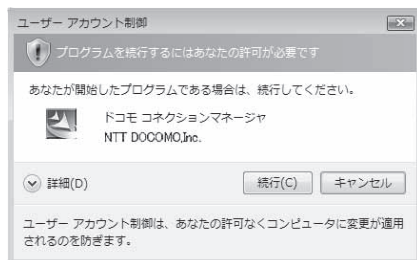


For Windows Vista

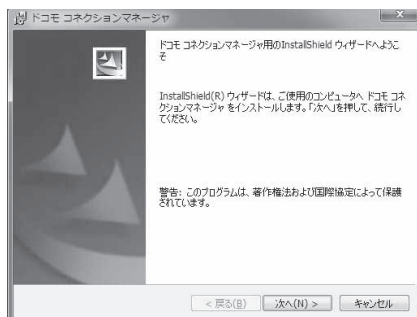
1 Click [続行] (Continue).

For Windows XP

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

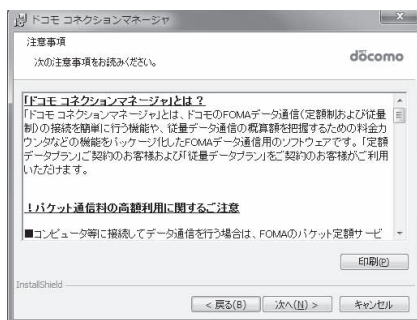


4 Click [次へ] (Next).



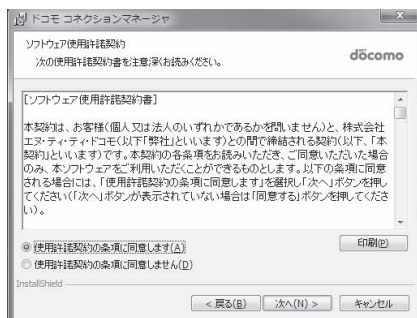
5 Confirm the content and click [次へ] (Next).

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



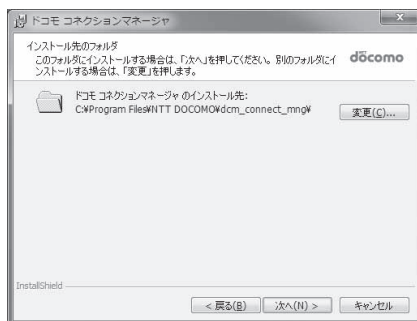
6 Read the licensing agreement and select [使用許諾契約の条項に同意します] (Agree to articles of the user licensing agreement) and then click [次へ] (Next) to agree.

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



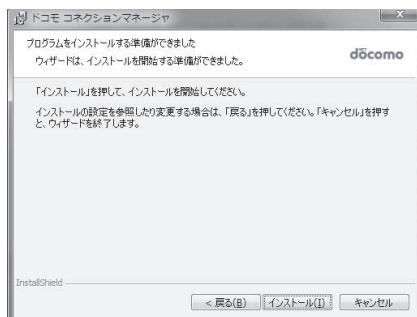
7 Confirm the destination program folder and click [次へ] (Next).

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



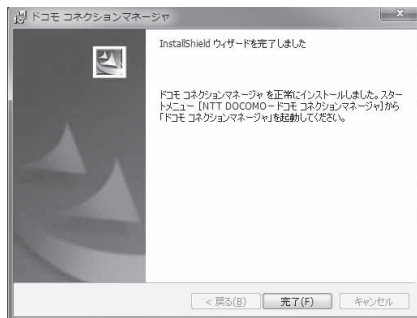
8 Click [インストール] (Install).

- 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 ▶ [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).

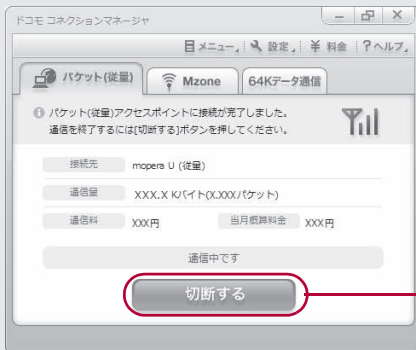
- When the software is activated for the first time, the setting wizard appear. Operate and make the setting according to the guidance from the software to prepare for the connection to the Internet. Refer to "DOCOMO Connection Manager operation manual.pdf" for details.



- 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

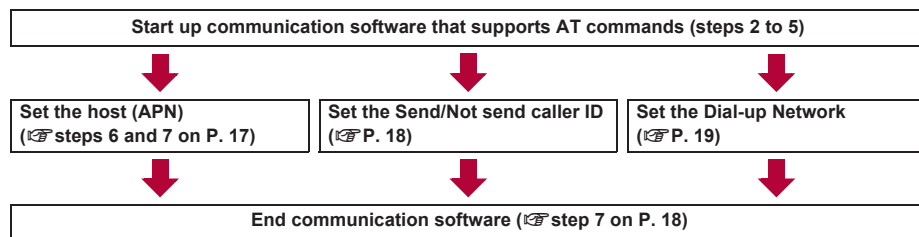
Set network transmission without using DOCOMO Connection Manager

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 the first cid is "mopera.ne.jp", the APN used to connect to mopera. The default setting for the third cid is "mopera.net", the APN used to connect to mopera U. Save hosts (APN) to cid2 or 4 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 SH09B] 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].

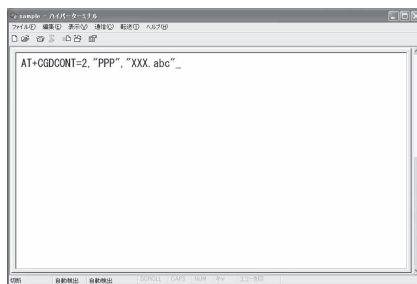
- For the area code, the default setting in Windows (such as [03]), appears. Set any number for the area code, since it is not related to the host (APN) setting.



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"
(参照 P. 31).
 <cid> : Enter any of 2 or 4 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? [Enter], and the settings appear in a list.



When nothing appears on the screen when AT commands are entered

- ATE1 [Enter]
Refer to P. 35 for details on AT commands.

When resetting APN settings using AT commands

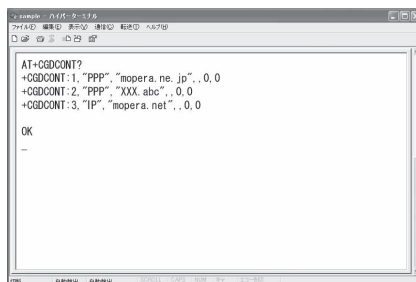
- AT+CGDCONT=[Enter] : To reset all the cids
- AT+CGDCONT=<cid>[Enter] : To reset only specific cids

When reset, <cid>=1 returns to "mopera.ne.jp" (default setting), <cid>=3 returns to "mopera.net" (default setting) and settings for <cid>=2 or 4 to 10 are unregistered.

When confirming APN settings using AT commands

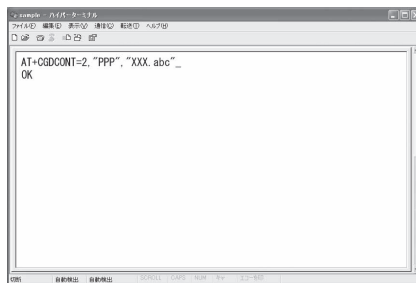
- AT+CGDCONT? 

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.





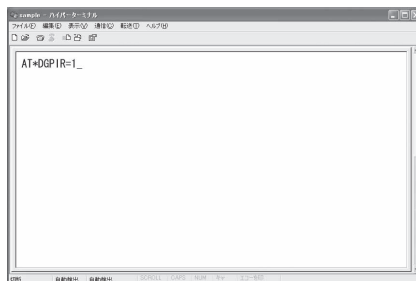
Setting Send/Not send caller ID

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

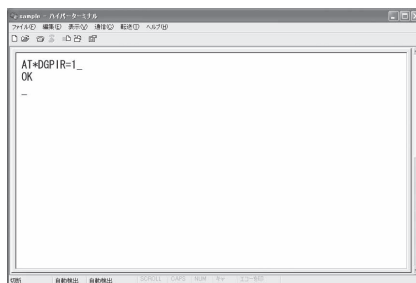
1 Follow steps 1 to 5 of “Setting host (APN)” on P. 16.

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.

As the default setting, "mopera.ne.jp", the APN used to connect to mopera is registered for cid1 (<PDP_type> is "PPP"), and "mopera.net", the APN used to connect to mopera U is registered for cid3 (<PDP_type> is "IP").

When connecting to a corporate LAN or Internet service providers other than mopera or mopera U, register the host (APN) using cid2 or 4 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

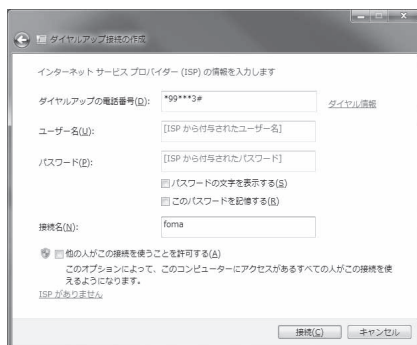
1 Click [接続またはネットワークをセットアップします] (Set up a connection or network).

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 SH09B].
- 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).

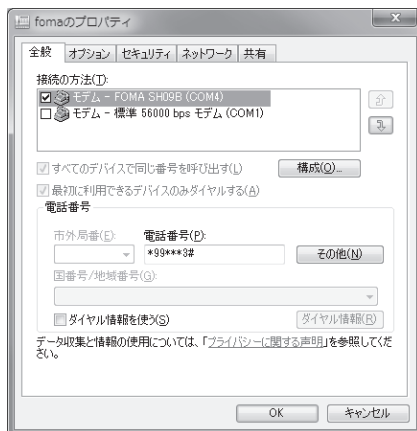
- The network connections screen appears.

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

- Properties screen appears.

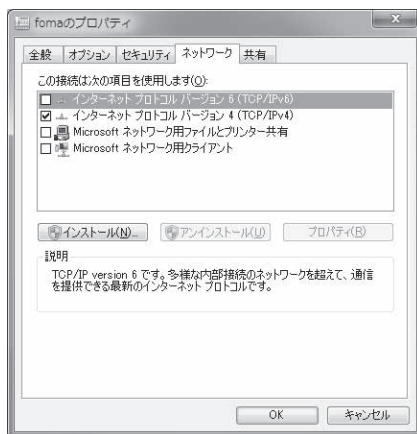
13 Confirm all the settings in the [全般] (General) tab.

- When two or more modems are connected to the PC, make sure that [FOMA SH09B] in [接続の方法] (Connection method) shows ☒. When ☐ appears instead, change to ☒. For modems other than [FOMA SH09B], 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.

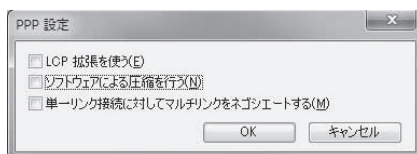


15 Click the [オプション] (Option) tab and click [PPP設定] (PPP setting).

- 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).

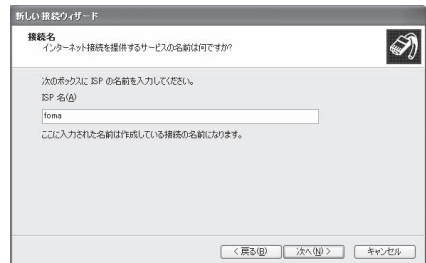
- A screen to specify the device appears.

7 Select [モデム - FOMA SH09B (COMx)] (Modem - FOMA SH09B (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.

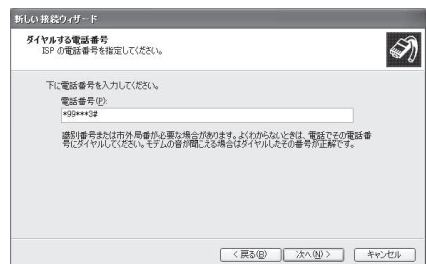
8 Enter a connection name in the [ISP名] (ISP name) field and click [次へ] (Next).

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



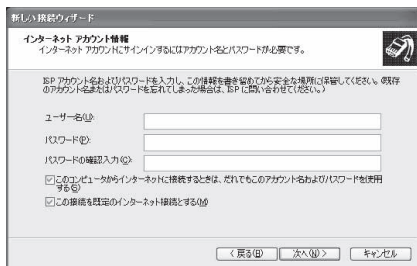
9 Enter the host number in the [電話番号] (Phone number) field and click [次へ] (Next).

- 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.

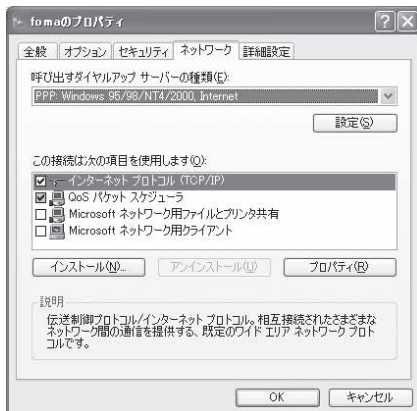
14 Confirm all the settings in the [全般] (General) tab.

- When two or more modems are connected to the PC, make sure that [FOMA SH09B] in [接続の方法] (Connection method) shows ☒. When ☐ appears instead, change to ☒. For modems other than [FOMA SH09B], change ☒ to ☐.
- Confirm that [ダイヤル情報を使う] (Use dialing rules) shows ☐. When ☒ appears instead, change to ☐.



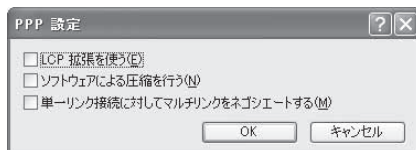
15 Click the [ネットワーク] (Networking) tab, confirm all settings and click [設定] (Settings).

- 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).

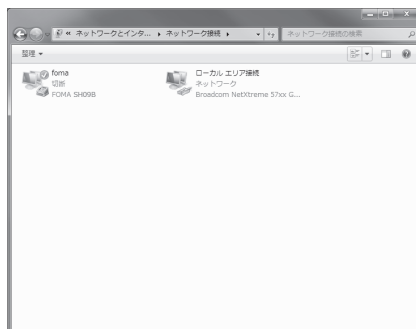
4 Click [ネットワークと共有センター] (Network and sharing center).

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, text 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, [] (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 is set. Data of locked functions cannot be received while Function 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 [010] for single entry, or in accordance with memory number information when receiving all entries.
 - When receiving all phonebook entries, Owner information (excluding first phone number) registered in Own number will be overwritten.
 - Phonebook entries are sent in memory number order.
 - When sending all phonebook entries, Owner information 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 [010] to [999]. If all memory numbers from [010] to [999] are already used, entries are saved to the smallest available memory number between [000] and [009].
- When phonebook data is received and 1,000 entries (names, phone numbers, or mail addresses) are already registered, or more than 1,000 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 SH09B 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" </p> <p>OK (Connects to MCC:440MNC:10)</p>
[M]			
AT+CPAS	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 +CPAS:0</p> <p>OK</p>
[M]			
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? +CPIN:SIM PIN1</p> <p>OK (Indicates waiting status for PIN1 input)</p> <p>AT+CPIN="1234"  OK</p> <p>AT+CPIN? +CPIN:SIM PUK1</p> <p>OK (Indicates waiting status for PUK1 input)</p> <p>AT+CPIN="12345678","1234" OK</p>
[M]			

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>,<dcs>]]] [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]". <dcs> 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 SH09B) in alphanumeric characters.*2	—	AT+GMM☐ FOMA SH09B 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]	Displays wireless network used to call. Incoming signals are not affected.*2	n=22 : FOMA network (fixed value)	AT+WS46?☐ 22 OK
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 SH09B) 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") and "mopera.net" for <cid>=3 (<PDP_type> is "IP"). Set cid in 2 or 4 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 or 3 setting to default value.

AT+CGDCONT=<cid>

Clears specified <cid> setting. Resets <cid>=1 or 3 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 384

<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 "384" 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 384 kbps, downlink speeds of 7,232 kbps, and maximum permitting SDU size 1500 (for <cid>=3)

AT+CGEQMIN=3,,384,7232,,,1500

OK

(3) Command permitting uplink speeds of 384 kbps and all downlink speeds (for <cid>=4)

AT+CGEQMIN=4,,384

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 384

<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 384 kbps, downlink speeds of 7,232 kbps, and maximum permitting SDU size 1500 (for <cid>=3, Traffic class=2)
AT+CGEQREQ=3,2,384,7232,,,1500

OK

(3) Command when requesting connection without setting uplink speeds of 384 kbps or downlink speeds (for <cid>=4, Traffic class=2)
AT+CGEQREQ=4,2,384

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/384/7232
 (Indicates terminal connected to mopera.ne.jp, at maximum uplink speed of 384 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																																																																																																																																																																																																																																																																																																																																																																																																																											
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