

L-03F

ISSUE DATE:

'14.X

NAME:

PHONE NUMBER:

MAIL ADDRESS:

INSTRUCTION MANUAL

^{NTT}
docomo

Contents/Precautions

Before Using this Terminal

Setting Up

L-03F Connection Manager

Mobile Broadband

Configuring Network Manually

Overseas Use

Appendix/Troubleshooting

Introduction

Thank You for Purchasing the "L-03F"

Before using your terminal, or when necessary, read this manual to ensure safe use and handling.

Before Using this Terminal

- L-03F supports LTE, W-CDMA, GSM/GPRS.
- Because this terminal uses radio waves, it may not function in locations where it is difficult for radio waves to penetrate, such as tunnels, underground passages, and some buildings in areas where radio wave signals are weak or out of the Xi/FOMA service area. Even when you are on a higher floor of a tall building or condominium and nothing blocks your view outside, this terminal may not be able to receive or transmit signals. Also communication may be interrupted even when the Antenna Indication Lamp on this terminal lights indicating a strong signal reception with 3 antenna indication bar.
- This terminal communicates via radio waves by converting voices into digital signals. If you move into an area where signal reception is poor, the digital signals may not be accurately decoded and what you hear may differ slightly from what was actually said.
- DOCOMO is not responsible for any economic losses incurred through lost communication opportunities caused by external factors such as malfunction or electrical outage.
- This terminal can be operated in Xi area, FOMA Plus-Areas and FOMA HIGH-SPEED Areas.
- This terminal does not support i-mode functions (i-mode mail, connection to i-mode sites (program) or i- α ppli, etc.).

SIM unlock

This terminal supports SIM unlock. If you release SIM lock, you can use SIM by a carrier other than NTT DOCOMO.

- The SIM unlock service is provided at a docomo Shop.
- A SIM unlock charge is separately required.
- Note that it takes several days for SIM unlock.
- If you use a SIM other than by DOCOMO, LTE system is unavailable. And available services and functions will be limited. DOCOMO is not liable to any failures or malfunctions.
- For details of SIM unlock, refer to NTT DOCOMO website.

The latest information of this manual can be downloaded from the DOCOMO website.

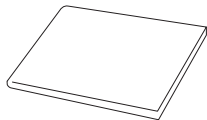
■ The URL of PDF for INSTRUCTION MANUAL
<http://www.nttdocomo.co.jp/english/support/trouble/manual/download/index.html>

※ The URL and the information contained in the manual are subject to change without prior notice.

Basic Package

■ L-03F Terminal (With Back cover L30, Warranty)

■ L-03F INSTRUCTION MANUAL for Connection Guide



■ USB Extension Cable (Sample)

How to Read this Manual

Contents

L-03F Manual is composed of "L-03F INSTRUCTION MANUAL for Connection Guide" and "L-03F INSTRUCTION MANUAL" (this manual).

■ "L-03F INSTRUCTION MANUAL for Connection Guide"

The following contents such as connection to computer, troubleshooting, specifications of L-03F are described.

- Contents/Precautions
- Before Using this Terminal
- Setting Up
- Appendix/Troubleshooting

■ "L-03F INSTRUCTION MANUAL" (this manual)

Besides the above contents described in "L-03F INSTRUCTION MANUAL for Connection Guide", the contents of configuring communication through special application are also written.

This manual is supplied with PDF. To view this manual, Adobe Reader (Version 6.0 or later is recommended) is necessary.

- L-03F Connection Manager
- Mobile Broadband
- Configuring Network Manually
- Overseas Use

- Please understand that in "L-03F INSTRUCTION MANUAL", "this terminal" refers to "L-03F".
- Note that in "L-03F INSTRUCTION MANUAL", "PC" refers to both "Windows PC" and "Mac".
- Operation procedures and images may differ depending on environment.
- Reprinting all or parts of this manual is prohibited.
- Information contained in this manual is subject to change without prior notice.

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Features of the L-O3F

"Xi" is a service of DOCOMO supported by LTE (Long Term Evolution) which is the international communication standard. FOMA (Freedom Of Mobile multimedia Access) is the name of a service provided by DOCOMO based on the W-CDMA system, which is certified as one of the global standards of 3rd generation mobile communication systems (IMT-2000).

■ Supported Xi data communication

The terminal supports data communication at a speed of up to 75Mbps for downloading and up to 25Mbps for sending.

※ Within a part of the Xi area.

- Refer to DOCOMO website for detailed supporting areas. Communication speed is theoretical values when sending and receiving data which does not show the actual ones. The actual communication speed depends on communication environment and network congestion.
- The FOMA area which is out of Xi area is also available.

■ International Roaming Service

Data communications from a PC are available through using 3G network or GPRS network in foreign countries. ▶P90

※ "WORLD WING" is usually applied along with the contract of this terminal. Please contact a docomo shop or a docomo Information Center to confirm the details.




■ Correspondence with the FOMA HIGH-SPEED Area

You can enjoy high speed communication (Best effort system) at a maximum of 14Mbps for receiving and 5.7Mbps for sending.




- Communication speed is theoretical values when sending and receiving data which does not show the actual ones. The actual communication speed depends on communication environment and network congestion.
- For details of areas supporting a maximum of 5.7Mbps for sending, view DOCOMO website.
- Sending and receiving data may become 384kbps even in the FOMA HIGH-SPEED area.
- Sending and receiving data become 384kbps in FOMA area out of FOMA HIGH-SPEED area.


Safety Precautions (ALWAYS FOLLOW THESE PRECAUTIONS)

- Before using this terminal, read these "Safety Precautions" carefully so that you can use it properly. After reading the safety precautions, keep this manual in a safe place for later reference.
- These precautions are intended to protect you and others around you. Read and follow them carefully to avoid injury, damage to the product or damage to property.
- The signs below indicate the levels of danger or damage that may occur if the particular precautions are not observed.

 DANGER	This sign indicates that incorrect handling has a high possibility of causing death or serious injury.
 WARNING	This sign indicates that incorrect handling poses a risk of causing death or serious injury.
 CAUTION	This sign indicates that incorrect handling poses a risk of causing slight injury or damage to the product or property.

- The following symbols indicate special warnings regarding product usage.

 Don't	Denotes things not to do (prohibition).
 Not disassemble	Denotes not to disassemble.
 Not liquids	Denotes not to use where it could get wet.

 Do	Denotes mandatory instructions (matters that must be complied with).
---	--

- "Safety Precautions" are explained in the following 4 sections.

General Precautions for this Terminal and UIM	6
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Precautions for the UIM	9
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General Precautions for this Terminal and UIM

DANGER



Don't

Do not use, store or leave the terminal in hot places (e.g. by the fire, near a heater, under a kotatsu, in direct sunlight, in a car in the hot sun).

Fire, burns, or injury may result.



Don't

Do not put this terminal or UIM in heating appliances such as microwaves or high pressure containers.

Fire, burns, injury, or electric shock may result.



Not disassembly

Do not disassemble or remodel this terminal and its accessories.

Fire, burns, injury, or electric shock may result.



Not liquids

Do not get this terminal and its accessories wet with water, drinking water, pet urine, etc.

Fire, burns, injury, or electric shock may result.



WARNING



Don't

Do not subject this terminal and its accessories to strong force, severe shocks, or throw them.

Fire, burns, injury, or electric shock may result.



Don't

Keep conductive foreign objects (metal, pencil lead, etc.) away from the USB connector. Do not insert such objects inside this terminal.

Fire, burns, injury, or electric shock may result.



Don't

Do not cover or wrap this terminal or its accessories with bedding, etc. while using.

Fire or burns may result.



Do

Make sure to turn off the computer which is connected with this terminal before you go near a flammable gas such as gasoline fumes.

Catching fire may result.



CAUTION



Don't

Do not place this terminal or UIM on unstable locations such as wobbly tables or slanted locations.

This terminal or UIM may fall, resulting in injury.



Don't

Do not store this terminal or UIM in humid or dusty places, or in hot areas.

Fire, burns, or electric shock may result.



Do

If children use this terminal or UIM, a guardian should explain the precautions and correct operations. The guardian should also make sure that the instructions are followed during use.

Injury may result.



Do

Keep out of reach of babies and infants.

Accidental swallowing or injury may result.

Precautions for this Terminal



WARNING



Don't

Do not get liquids such as water or foreign objects such as metal pieces or flammable materials into the UIM slot of this terminal.

Fire, burns, injury, or electric shock may result.



Do

Turn off this terminal in places where use is prohibited such as airplanes or hospitals.

Electronic devices or electronic medical devices may be adversely affected. Follow the instructions when using inside medical facilities.



Do

If you wear any implanted electronic medical devices, contact the manufacturer or dealer of the electronic medical device to ask about the effect from radio waves.

Electronic medical devices may be adversely affected.



Do

Remove this terminal from USB port in places near high-precision electronic devices or devices using weak electronic signals.

Electronic devices may be adversely affected by reasons such as malfunction.

※ Electronic devices that may be affected
Hearing aids, implanted cardiac pacemakers, implanted defibrillators, other medical electronic devices, fire alarms, automatic doors and other automatically controlled devices.

If you are using an implanted cardiac pace maker, implanted defibrillator or any other electronic medical device, consult the manufacturer or retailer of the device for advice regarding possible effects from radio waves.



CAUTION



Don't

Do not use the broken terminal.

Fire, burns, injury, or electric shock may result.



Do

If you use this terminal in a car, contact the car manufacturer or dealer to ask about the effect from radio waves.

Depending on the type of a car, in-car electronic devices could be adversely affected. In this case, stop using this terminal immediately.



Do

Itching, rash or eczema may be caused depending on your physical conditions or predisposition. If an abnormality occurs, stop using this terminal immediately, and then seek medical attention.

For the material of each part →P10
"Material List"



Do

Be careful not to get your finger caught in the parts when you close or open this terminal.

Injury or other accidents may result.

Precautions for the UIM

CAUTION



Do

Be careful not to touch the edge of UIM when removing it.
Injury may result.

Notes on Using near Electronic Medical Equipment

- The description below meets "Guideline on the Use of Radio-communication Equipment such as Cellular Telephones - Safeguards for Electronic Medical Equipment" by the Electromagnetic Compatibility Conference.



WARNING



Do

Be sure to adhere to the following regulations inside medical facilities.

- Keep this terminal out of operating rooms, intensive care units (ICUs) or coronary care units (CCUs).
- Turn off the PC in hospital wards.
- Turn off the PC in hospital lobbies and corridors if electrical medical devices could be nearby.
- If the medical facility has specific zones where use or possession of mobile terminals is prohibited, follow those regulations.



Do

Turn off the PC in crowded trains or other public places where implanted cardiac pacemaker or defibrillator wearers could be nearby.

Operation of an implanted cardiac pacemaker or implanted defibrillator may be adversely affected by radio waves.



Do

If you use medical equipment such as an implanted cardiac pacemaker or implanted defibrillator, use the mobile terminal 22cm or more away from the implanted cardiac pacemaker or implanted defibrillator.

Operation of medical equipment may be adversely affected by radio waves.



Do

Patients using electronic medical equipment other than implanted cardiac pacemakers or implanted defibrillators (using outside medical facilities for treatment at home, etc.) should check the influence of radio waves upon the equipment by consulting the manufacturer.

Operations of electronic medical equipment may be adversely affected by radio waves.

Material List

Part	Material/Surface treatment
Exterior case (Front part)	PC
Exterior case (Back part : Back cover)	PC
Frame	PC+GF30%
Communication Status Lamp	Transparent PC
USB Connector/Bracket	PC
USB Connector	SUS

Handling and Care

General Usage Guidelines

■ Keep this terminal away from water.

This terminal and UIM are not waterproof. Do not use the terminal in places with high humidity such as a bath or where rain may get it wet. If you carry the card close to your body, moisture from sweat may corrode the internal parts causing a malfunction. Note that malfunctions deemed to be caused by water are not covered by the warranty, and may be impossible to repair. Since these malfunctions are not under warranty, even when repair is possible, it will be done at the user's expense.

■ Clean this terminal with a dry, soft cloth (Lens cleaning cloth).

If this terminal is wiped with alcohol, paint thinner, benzine or detergent, the printing may disappear or color may fade.

■ Keep the connector contacts clean with a dry cotton swab.

Clean the connector contacts with a dry cotton swab to prevent contacts from getting dirty which can result in intermittent connections. Be careful when cleaning the connector contacts.

■ Do not place the equipment near air conditioner outlets.

Condensation may form due to rapid changes in temperature, and this may corrode internal parts and cause malfunction.

■ Do not place this terminal where excessive force will be applied to it.

If this terminal is inserted to a full bag, or placed in a pocket and sat on, its internal PCBs may be damaged or malfunction. Such damage is not covered by warranty.

■ Read the individual manual attached to this terminal.

This Terminal

■ Avoid using in extremely high or low temperatures.

This terminal should be used within a temperature range from 5 °C to 35 °C and a humidity range from 45 % to 85 %.

■ This terminal may adversely affect fixed phones, televisions or radios in use nearby. Use as far as possible from such appliances.

■ Keep a separate record of any information stored on this terminal and store the copies in a safe location.

DOCOMO assumes no responsibility for the loss of any of your data.

■ Do not drop this terminal or subject it to shocks. Damage or malfunction may result.


- Do not insert a USB connector to PC crookedly or do not pull it when it is inserted. Damage or malfunction may result.
- Remove this terminal from the PC when transporting. Malfunction or damage may result.
- It is normal for this terminal to become warm during use. You can continue to use it even when it is warm.

UIM

- Do not put excessive force on the UIM when inserting or removing it into this terminal.
- Note that DOCOMO assumes no responsibility for malfunctions occurring as the result of inserting and using UIM with another IC card reader/writer.
- Always keep the IC portion of the UIM clean.
- Clean the UIM with a soft, dry cloth (Lens cleaning cloth).
- Be sure to keep a separate note of the information registered to this terminal. DOCOMO assumes no responsibility for the loss of any of your data.
- Visit [docomo Shop](#) to return the UIM for the environmental purpose.
- Do not scratch, touch carelessly or short circuit the IC portion. Data loss or malfunction may result.

- Do not drop or give shock to the UIM . Malfunction may result.
- Do not bend or put heavy things on the UIM. Malfunction may result.
- Do not insert UIM into this terminal with labels or stickers attached on. Malfunction may result.

CAUTION

- Do not use the modified this terminal. Using modified this terminal result in violating the law of Electromagnetic Compatibility. This terminal has been complied with technical standard of wireless equipment stipulated by law of Electromagnetic Compatibility. As a proof, "Technical standard compliance mark  " is indicated in the inscription seal. If this terminal is modified by turning the screw to the left to disassemble, technical standard compliance becomes invalid. Please do not use this terminal during the time when technical standard compliance is being invalid, since you are in violation of the law of Electromagnetic Compatibility.
- Do not alter the basic software. Repairs may be refused as a modification of software.
- Keep this terminal 15mm or more away from your body while communicating.

Before Using this Terminal

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Names of Parts and Functions

- a **USB Connector**
A connection terminal used to connect with PC
- b **Communication Status Lamp→ P15**
Indicates status of this terminal
- c **Xi antenna Part**
The antenna is built in this terminal.
- d **Back cover**
Cover to protect UIM attaching part

Pulling out a:

Example 1:

Example 2:

※ Use the USB connector pulling out up to 180 degrees (90+90 degrees) from the terminal. Note that trying to pull out over 180 degrees may cause damage.

※ The tip of the USB connector can be rotated up to 180 degrees (90+90 degrees). Note that it can be rotated in the same direction. Rotating in the opposite direction or over 180 degrees by force may cause damage.

Mode Indication Lamp

Communication Status Lamp

Status	Status Lamp	
While communicating	LTE	Blue
	W-CDMA (3G)	Green
	HSDPA	Magenta
	HSUPA	Magenta
	GPRS	Cyan
	During packet communication (no data sent or received)*	White
Out of service	Yellow	
PIN1	PIN1 lock ON	Red
	Waiting to unlock PIN1	Red

* A long period with no sent or received data.

Using UIM

A UIM is an IC card that stores personal information such as your phone number. Without the UIM installed in this terminal, you cannot use data communication. For detailed information, refer to UIM Manual.

You can use the terminal only with UIM. Exchange your docomo mini UIM card or FOMA card at a docomo Shop.

Inserting/Removing

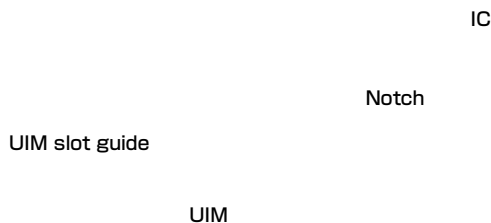
Inserting

Insert a UIM holding the terminal with both hands.

1 Press the back cover in the direction **a** to slide it in the direction **b**. Then pull it up in the direction **c** to remove

Back cover

- 2 Insert a UIM under the card slot in the direction of arrow with the IC chip side down



- 3 Fit the back cover to the ditch of this terminal at approximately 1 mm. While pushing in the direction of **a**, slide the back cover in the direction of **b** until it clicks

Approx.
1 mm

Removing

Remove a UIM holding the terminal with both hands.

- 1 Press the back cover in the direction **a** to slide it in the direction **b**. Then pull it up in the direction **c** to remove

Back cover

- 2 Slide the UIM in the direction of arrow to remove

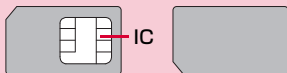
UIM

- 3** Fit the back cover to the ditch of this terminal at approximately 1mm. While pushing in the direction of **a**, slide the back cover in the direction of **b** until it clicks

Approx.
1mm

Note

- Do not lose the removed UIM.
- Make sure to both sides of the UIM.



- Be careful not to scratch the UIM IC tip.
- Inserting a UIM in the reversed direction may cause malfunction.
- Inserting or removing the UIM with an excessive force may cause damage to your UIM.
- Do not remove the UIM while this terminal is inserted to a PC, it may cause damage to your UIM.
- Do not transfer the UIM to others.
- Do not get the UIM scratched or transformed. The data stored in UIM will disappear or be changed.

Security Code

You can set PIN1 code (Personal Identification Number) for UIM. The default setting for the PIN1 code is [0000]. The PIN1 code is a 4 to 8-digit security code to be entered every time this terminal is turned on for user verification to prevent any unauthorized use by others.

If your UIM is set to require a PIN1 code, data communication cannot be performed until the PIN1 code is entered. Use UIM after verifying the PIN1 code, or set (→P57) UIM not to verify the PIN1 code in advance.

■ Changing PIN1 Code

You can change the PIN1 code to any number. To prevent unauthorized use by third parties, change it to your own number. If you improperly enter the PIN1 code 3 times in a row, PIN1 code is locked automatically (PIN Lock), so be sure to keep a separate note of the numbers you set.

- "Changing PIN1 Code" (→P57)

■ Unlocking PIN Code

The unblocking PIN code is the number in 8 digits used to unblock the PIN1 code, which cannot be changed by yourself. If you improperly enter the unblocking PIN code for 10 times in a row, the UIM is locked automatically.

Caution

- Do not set PIN1 code to numbers that can easily make a guess, such as "birth date", "part of your phone number", "numbers from address or room number", "1111" "1234", etc. Also memo your PIN1 code and keep it well.
- Keep your PIN1 code away from being known by other people. DOCOMO assumes no responsibility for the loss of any of your data results from abuse of PIN1 code.
- If you forgot your PIN1 code, you (if you are the covenanter) are required to bring your ID (driving license, etc.) and UIM to a docomo shop. For details, please contact "docomo Information Center" on the back cover of this manual.
- Unblocking PIN code is written on the proposal form handed in at time of contract in docomo shop. For covenanter who signed the contract other than docomo shop are required to bring your ID (driving license, etc.) and UIM to a docomo shop, or contact "docomo Information Center" on the back cover of this manual.

Activate L-03F Connection Manager
PIN1 code Verification screen appears



Enter PIN1 Code

Incorrect entry 3 times in a row



Enter Unblocking PIN Code

OK

Incorrect entry 10 times in a row



Available to set a new
PIN1 code



Contact a docomo Shop

Available Communications

Xi Data Communication/FOMA Packet Communication

Fees for this communication method are based on the amount of exchanged data. You can perform data communication at a speed of up to 75Mbps for receiving data and up to 25Mbps for sending data by using a connection that allows Xi data communication or FOMA packet communication such as "mopera U", one of DOCOMO's Internet connection services.

- ※ Communication speed is theoretical values when sending and receiving data which does not show the actual ones. The actual communication speed depends on communication environment and network congestion.
- Depending on bandwidth, communication speed for receiving is theoretically 100/100/75/37.5Mbps (with bandwidth of [20/15/10/5MHz]), and for sending is 50/37.5/25/12.5Mbps (with bandwidth of [20/15/10/5MHz]).
- For the FOMA HIGH-SPEED areas outside Xi area, the maximum speed for receiving data is 14Mbps and for sending is 5.7Mbps (best effort).
- Sending and receiving data become 384kbps in FOMA area out of Xi area and FOMA HIGH-SPEED area.
- The communication speed varies depending on the access point and radio wave status.
- The communication speed varies depending on the overseas carrier or network when using overseas.

Note

- Communication fees become high when performing communications with large amount of data such as browsing websites with many graphics or downloading data.
- Data communication may take more time or become difficult to connect depending on the network congestion. For customers who use a large amount of data communication (Approximate 1Gbytes data or more is used within the last three days including the current day), it may have difficulties in sending and receiving data on time. Also, data communication may get disconnected in the following cases such as when a large amount of data communication occurs at a time or within a certain period of time, when being connected for a long time, or when connecting several times in a row within a certain period of time.
- This terminal does not support 64K data communication.
- This terminal does not support Remote Wakeup.
- This terminal does not support FAX communication.

Usage Notes

■ Internet service provider (ISP) fees

Fees to an ISP may be required to connect to the Internet. These fees are added to the Xi service fees and are paid to your ISP directly. For details on connection fees, contact your ISP.

You can subscribe to such as "mopera U", one of DOCOMO's Internet connection services. Charge for subscribing "mopera U" is required.

For service and connection settings of "mopera U", visit the "mopera U" website.

<http://www.mopera.net/> (Japanese only)

■ User authentication to access networks

Depending on the access point, user authentication (ID and password) may be required to connect. If required, enter the ID and password from communication software or dial-up network. The ID and password will be provided by the network administrator of your ISP or the access point. For details, contact your ISP or network administrator.

■ Requirements for communication

The following conditions must be met to perform communications using this terminal. However, a connection may not be established if traffic is heavy at the base station or if radio signals are weak.

- This terminal must be in Xi network, FOMA network or DOCOMO's roaming service area.
- The access point corresponds to the Xi data communication or FOMA packet communication.

Connecting this Terminal to a PC

When connecting this terminal with a PC for the first time, it is required to install L-03F Connection Manager (including a driver). For installing L-03F Connection Manager, refer to the following.

- For Windows: "Preparation before using L-03F" (→P32)
- For Mac: "Preparation before using L-03F" (→P41)

Inserting

1 Turn on a PC

2 Connect this terminal with the PC

■ When using the USB extension cable (Sample)

- a Put your fingertip on the lug of the USB connector to pull out 180 degrees

Lug

- b Hold the connector part of the USB extension cable and insert into the USB connector of this terminal in direction of arrow

* Firmly insert into the USB connector.

USB connector

USB extension
cable

- c Hold the connector part of the USB cable and insert it into PC's USB port in direction of arrow with inscription of the USB side up

Inscription of USB

USB port

USB extension cable

■ **When connecting with a PC directly**

- The tip of the USB connector on the terminal can be rotated 90 degrees according to the orientation of your PC.
- a **Put your fingertip on the lug of the USB connector to pull out 90 degrees**

Lug

USB Connector

- b **Rotate the tip of the USB connector 90 degrees with the engraved side up**

USB
Connector

- ※ The connector can be rotated 90 degrees more (up to a total of 180 degrees). Note that trying to rotate over 180 degrees by force may cause damage.

- c **Insert the USB connector of this terminal into the PC's USB port**

USB port

USB Connector

- In Step b, you can insert the USB connector as is without rotating 90 degrees to use.

USB port

- ※ Do not rotate the USB connector inserted to the PC's USB port. Malfunction or damage may result when subject this terminal to severe force or shocks due to carelessness.

3 Start communication connection

- Using "L-03F Connection Manager" (→P49)
- Using "Mobile Broadband" (→P63)
- Configuring manually (→P69)

Note

Communication Status Lamp

- Check that the color of Communication Status Lamp is blue, magenta, cyan or green.
- Keep the PC away from entering conditions such as sleep (standby) or power off. Operations may become abnormal. In that case, remove this terminal first before the PC turns to sleep (standby) or power off.

Removing

1 Disconnect data communication

If the L-03F Connection Manager is running, or L-03F APN Tool is running, close it first. Make sure the data connection is disconnected.

2 Remove this terminal

- When using the USB extension cable (Sample)
 - a Hold the connector part of the USB extension cable and pull out this terminal from PC's USB port in direction of arrow

USB port

USB extension cable

- b Hold the connector part of the USB extension cable and pull out from the USB connector in direction of arrow

USB connector

USB extension
cable

- c Place the USB connector into this terminal

Lug

USB Connector

- ※ Place the USB connector with the lug shown at the front.

■ When connecting to a PC directly

- a Hold the USB connector part of this terminal and pull out this terminal straight from PC's USB port

USB port

USB connector

- b Rotate the tip of the USB connector 90 degrees as shown

USB
Connector

- c Place the USB connector into this terminal

USB Connector

Caution

- If you force to remove this terminal or try to pull out the USB connector, malfunction may result.
- Removing this terminal from the PC during data communication may suspend data communication and result malfunction or data loss.

Setting Up

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Setting Up

■ Data communication via L-03F

"Communication configuration file (Driver)" is required to install on a PC to recognize this terminal.

In L-03F Setup, not only "Communication configuration file (Driver)", the data communication software of "L-03F Connection Manager" and "L-03F APN Tool" (Windows only) will be installed as well.

Data communication is available with only L-03F Connection Manager, if necessary using Mobile Broadband (Windows 7 only) is also available.

For PC with Windows OS in it, data communication is also available based on configuring manually after installing L-03F Connection Manager.

■ Installation of L-03F Connection Manager

Since L-03F has "Zero installation", when connecting this terminal to a PC for the first time, "L-03F Connection Manager" installation screen appears automatically. "Zero installation" is supported by PC with Windows OS in it.

Mac does not support "Zero installation", clicking the CD-ROM icon displayed when connecting this terminal to a PC continues installation.

The procedure of setting up is described on the next page.

Work Flow of Setting Up

Connecting this terminal with a PC

- Windows Version▶P32
- Mac Version▶P41

Installing L-03F Connection Manager, Communication configuration file (Driver),
L-03F APN Tool (Windows only) (Standard installation/Custom installation)

Confirmation after Setup

- Windows Version▶P36/ • Mac Version▶P45

Using L-03F
Connection
Manager

Configuring L-03F Connection
Manager▶P54

Communication connection
via L-03F Connection
Manager▶P50

Using Mobile
Broadband of
Windows 7

Communication connection
through Mobile Broadband
▶P65

Without using
L-03F Connection
Manager

Configuring Communication manually
• Windows Version ▶P70

Communication connection manually via OS
• Windows Version▶P86

Operating Environments

Using this terminal under the following operational environments.

Item	Requirement
PC Main Unit	<ul style="list-style-type: none">• PC/AT compatible and Mac.• USB port (standard of Universal Serial Bus Specification Rev2.0)• Do not operate via USB hub (including USB port on monitor and keyboard).• Display resolution of 800×600 pixels, 16-bit Color (65,536) or higher is recommended.
OS*1	Windows XP SP3 (Japanese/English version) Windows Vista SP2 (Japanese/English version) Windows 7 SP1 (Japanese/English version) Mac OS X 10.6.8/10.7.2 (Japanese/English version)*2
Required Memory*3	Windows XP: 256Mbytes or more Windows Vista: 512Mbytes or more Windows 7: 1Gbytes or more(32bit), 2Gbytes or more (64bit) Mac OS X 10.6.8: 1Gbytes or more Mac OS X 10.7.2: 2Gbytes or more
Hard Disk Space*3	50Mbytes or more available space

※1 Operations on upgraded OS or added/modified environment are not guaranteed.

※2 Only Mac with CPU made by Intel Corporation is available.

※3 Required memory or available hard disk space may vary depending on the system environment of a PC.

For latest information of operation environment, visit NTT DOCOMO website.

Note

- The software may not work depending on your operating system environment and type of machine. DOCOMO does not guarantee any operation other than the operation environment described in the table on the left side.

Windows Version

Installation of L-03F Connection Manager is only required when connecting this terminal to your PC for the first time.

※The following procedures or screen images are all based on the example of Windows 7.

Note

- When installing, insert this terminal into USB port after OS is activated.
- Do not remove this terminal while installing.
- Installation may take several minutes depending on the PC.
- Do not install or uninstall during data communication.
- End all the applications before installing. Also end programs on Windows including virus check software.
- When installing, make sure to install from the account with PC supervisor privileges. An error will occur during installation if you install from the account without privileges.
- For details on setting up PC supervisor privileges, contact your computer manufacturer or Microsoft Corporation.
- When connecting this terminal to a PC for the first time, you are required to enter PIN1 code to use UIM. →P58

■ If CD/DVD playback and written software is installed into a PC

Depending on the CD/DVD playback or writing application installed in a PC, this terminal may not be recognized normally even if the terminal is connected while the application software residents* or is activated.

Refer to "Troubleshooting" for proper solutions. →P113

※Including the case in which its icon stays on the taskbar.

Preparation before Using L-03F

Setting Zero Installation (Auto)

1 Turn on a PC and activate OS

2 Connect this terminal with the PC

The device driver which connects this terminal to a PC is automatically installed by zero installation. When the installation finishes, the message, "Device driver software installed successfully," appears, then L-03F Connection Manager setup screen appears.

"AutoPlay" screen will be displayed depending on settings of the PC. If the screen is displayed, check "Always do this for software and games:" and select "Run L03FLauncher.exe".

3 Click [Yes] on "User Account Control" screen

■ For Windows Vista

- Click [Continue] on "User Account Control" screen.

■ For Windows XP

- "User Account Control" screen is not displayed. Follow the next step.

4 Select "English (United States)" in the "Choose Setup Language" screen, then click [Next]

5 Click [Next]

6 Confirm the contents of "License Agreement". When agree with the contents, select "I accept the terms of the license agreement" and click [Next]

7 Select "Standard installation (recommended)" on the "Select the installation method" screen, then click [Next]

Installation starts. Then installation of L-03F communication configuration file (Driver) continues.

※ It may take time to move to the next procedure depending on your PC.

■ **Custom installation**

- a On the "Select the installation method" screen, select "Custom installation" and click [Next]
- b Select "Install all of L-03F Connection Manager, L-03F APN Tool, and L-03F USB Driver. (Recommended)" or "Install L-03F USB driver only", then click [Next]

- To install all, also set "Profile setting" ► "Automatic connection setting".
- If you install L-03F USB driver only and make packet communications, connect in the manner in Mobile Broadband (→P65) or Configuring Network Manually (→P69).
- For Windows XP, the "Setting optimized communication" screen appears. When the setting is made, click [Next] to proceed the next step.

8 Confirm that this terminal is recognized by the PC

On the right side of the taskbar, "Installing device driver software" appears, and this terminal is recognized automatically.

※To recognize this terminal automatically, "L-03F is not recognized" may appear on L-03F Connection Manager temporarily. After a while, this terminal will be recognized.

If this terminal is recognized properly, "Your device is ready to use" will appear.

■ For Windows Vista

- On the right side of the taskbar, a message of "Installing device driver software" appears, this terminal will be recognized automatically.

- If this terminal is recognized normally, a message of "Your devices are ready to use" will appear.

■ For Windows XP

- On the right side of the taskbar, "Found New Hardware" appears, and this terminal is recognized automatically.

- If this terminal is recognized properly, "Your new hardware is installed and ready to use." will appear.

9 Click [Finish]

- If you optimize communication settings (W-TCP setting) under Windows XP, click [Finish] on the setup wizard screen to restart.

■ Installing Flash Player

If Flash Player is installed into your PC, screen shown in "Confirming L-03F Connection Manager" (→P36) appears and setup finishes.
If not, a message appears. Install Flash Player by the following procedures.

a Click [OK]


b Read the content of "License Agreement", check "I have read and agree to the terms of the Flash Player License Agreement." and click [INSTALL]

- c Click [DONE]

Installation finishes.

Confirming after Installation

Confirming L-03F Connection Manager

- 1 Double click L-03F Connection Manager icon  (blue) displayed on the desktop

When the following screen is displayed, the confirmation of installation finishes.

Note


- Alternatively, remove this terminal from the PC, and then reconnect to check.
- For Windows 7, L-03F Connection Manager cannot be activated due to the setting of mobile broadband auto connection. Set to "Never connect automatically". →P65

Confirming the Installed L-03F Communication Configuration File (Drivers)

Confirm whether L-03F Communication Configuration File (Drivers) is set in a PC.

1 Click (Start) ► "Control Panel" ► "System and Security"

■ For Windows Vista

- Click  (Start) ► "Control Panel" ► "System and Maintenance".

■ For Windows XP

- Click [start] ► "Control Panel" ► "Performance and Maintenance" ► "System".

2 Click "Device Manager"

■ For Windows Vista

- Click "Device Manager" ► [Continue].

■ For Windows XP

- Click "Hardware" tab ► [Device Manager].

3 Click each device display to confirm the driver name installed

- Confirm whether the driver name is displayed below "Network adapters", "Ports (COM & LPT)", "Modems", "Universal Serial Bus controllers".

- COM port number differs depending on user and PC.

OS	Device name	Driver name
Windows 7	Network adapters	docomo L03F USB NDIS Driver
	Ports (COM & LPT)	docomo L03F NMEA Serial Port docomo L03F USB Serial Port
	Modems	docomo L03F Modem Driver
	Universal Serial Bus controllers	USB Composite Device
Windows Vista	Network adapters	docomo L03F USB NDIS Driver
	Ports (COM & LPT)	docomo L03F NMEA Serial Port docomo L03F USB Serial Port
	Modems	docomo L03F Modem Driver
	Universal Serial Bus controllers	USB Composite Device


OS	Device name	Driver name
Windows XP	Network adapters	docomo L03F USB NDIS Driver
	Ports (COM & LPT)	docomo L03F NMEA Serial Port docomo L03F USB Serial Port
	Modems	docomo L03F Modem Driver
	Universal Serial Bus controllers	USB Composite Device

Note

- After inserting this terminal into the PC USB port, if this terminal is not recognized, try with another USB port. Depending on PC, this terminal may not be recognized with certain USB port.
- When communicating data with L-03F Connection Manager, configuring with L-03F Connection Manager is required.→P54
- When using mobile broadband of Windows 7 to communicate data, set in mobile broadband. →P65
- When communicating data with neither L-03F Connection Manager nor Mobile broadband of Windows 7, configure it manually.→P70

Uninstalling L-03F Connection Manager (including a driver)

- Before uninstalling, remove this terminal from the PC.
- When uninstalling, make sure to install from the account with PC supervisor privileges.

1 Click  (Start) ► "All Programs" ► "L-03F Connection Manager" ► "Uninstall L-03F Connection Manager"

■ **For Windows Vista**

- Click  (Start) ► "All Programs" ► "L-03F Connection Manager" ► "Uninstall L-03F Connection Manager".

■ **For Windows XP**

- Click [start] ► "All Programs" ► "L-03F Connection Manager" ► "Uninstall L-03F Connection Manager".

2 Click [Yes] on "User Account Control" screen

Click [No] to stop uninstalling.

■ **For Windows Vista**

- Click [Continue] on "User Account Control" screen.

■ **For Windows XP**

- "User Account Control" screen is not displayed, follow the next procedure.

3 Click [Yes] on the confirmation of deleting application screen

4 Click [Yes] on the "Confirm delete userdata" screen to delete user data

Click [No] if you do not want to delete user data.

- Even if you click [Yes], APN information is not deleted.

■ For Windows XP


- Mark "Clear communication settings (W-TCP setting) (Recommended)" on the "Delete communication settings" screen, then click [Next] to display the screen in Step 4.

5 Click [Finish]

Uninstallation finishes.

- If communication settings (W-TCP setting) is deleted under Windows XP, restarting is required.

Installing L-03F USB driver only

1  (Start) ▶ Click "Control Panel" ▶ "Programs" ▶ "Uninstall a program" ▶ "docomo L03F", then click "Uninstall"

■ For Windows XP

- [start] ▶ Click "Control Panel" ▶ "Add or Remove Programs" ▶ "docomo L03F", then click [Remove].

2 Click [Yes] on the confirmation of deleting application screen

3 Click [Finish]

■ For Windows XP

- Click [Finish] on the setup wizard screen. If communication setting (W-TCP setting) is unmarked, restarting is required.
- If the "Delete communication settings" screen appears, select "Clear communication settings (W-TCP setting) (recommended)" then click [Next].

Mac Version

Installation of L-03F Connection Manager is only required to install when connect this terminal to your PC for the first time.

※The following images are the examples of "Mac OS X 10.6.8".
Images may differ for "Mac OS X 10.7.2".

Note

- When installing, insert this terminal into USB port after OS is activated.
- Do not remove this terminal while installing.
- End all the applications before installing. Also end programs on Mac OS including virus check software.
- When installing, make sure to log in with PC supervisor privileges.
- When connecting this terminal to a PC for the first time, you are required to enter PIN1 code to use UIM. →P58

Preparation before Using L-03F

Setting via this Terminal

1 Turn on the PC and activate OS

2 Connect this terminal with the PC

CD-ROM icon is displayed on the desktop.

■ **For Mac OS X 10.7.2**

CD-ROM icon does not appear by default. Make settings to display CD-ROM icon in the following steps.

- Finder in the menu bar ► "Preferences..." ► Mark "CDs, DVDs, and iPods" checkbox.

3 Double click the CD-ROM icon

4 Double click "Installer.mpkg"

5 Click [Continue]

6 Click [Continue]

7 Read "Software License Agreement" and click "Agree" if you agree to continue installation

8 Click [Install]

- If a selection screen for installation destination appears
 - Select an installation destination, click [Continue] ► [Install].

- To change installation destination
 - Click [Change Install Location...], then specify installation destination.

9 Enter administrator password ► Click [OK]

10 Click [Continue Installation]

11 Select "Standard installation (recommended)", click [Continue]

■ Custom installation

- a Select "Custom installation", click [Continue]
- b Make settings on the "Profile setting" screen, then click [Continue]

- c Select "ON (recommended)" or "OFF" on the "Automatic connection setting" screen, then click [Continue]

12 Click [Restart]

The PC restarts. Installation finishes.
Remove this terminal from the PC temporarily.

Confirming after Installation

Confirming L-03F Connection Manager

- 1 Connect this terminal with the PC
- 2 Drag the CD-ROM icon displayed on the desktop into trash bin
This terminal will be recognized as a modem.
- 3 Click [Network Preferences...]

- For Mac OS X 10.7.2
 - Proceed to Step 6.

4 Select "docomo L03F" and click [Apply]

5 Close "Network" screen

6 Double click to launch Finder ▶ "Applications" ▶ "L-03F_Connection_Manager"

When the following screen is displayed, the confirmation of installation finishes.

■ Installing Flash Player

A message appears when activating the L-03F Connection Manager for the first time if Flash Player is not installed in your PC. Install Flash Player following the procedures below.

- a Double click to launch Finder ▶ "Applications" ▶ "L-03F_Connection_Manager"
- b Click [OK]

- c Confirm the content of the License Agreement, check "I have read and agree to the terms of the Flash Player License Agreement." and click [INSTALL]

d Enter administrator password and click [OK]

e Click [DONE]

Installation finishes.

Note

- When communicating data via L-03F Connection Manager, settings of L-03F Connection Manager is required.→P54

Uninstalling L-03F Connection Manager (including a driver)

- When uninstalling, make sure to log in with PC supervisor privileges.

1 Connect to a PC

CD-ROM icon is displayed on the desktop.

2 Double click the CD-ROM icon

3 Double click "Uninstaller"

4 Click [Uninstall]

5 Enter administrator password ► Click [OK]

6 Click [Restart]

7 Remove this terminal from the PC
Uninstallation finishes.

L-03F Connection Manager

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L-03F Connection Manager is available on either Windows or Mac. Despite the display images of Windows version and Mac version may differ, icons on screen and available functions are the same. Please note that the descriptions in this chapter are based on screen images of Windows.

L-03F Connection Manager

The L-03F Connection Manager allows you to use packet communication.

• Using Packet Communication→P52

Enables to use packet communication easily.

• Configuration→P54, P92

Enables to confirm packet usage, set profile, set PIN1 lock for UIM, set network (only during international roaming), automatically connect, set language, check latest software, reset this terminal, etc.

Note

- L-03F Connection Manager cannot be activated while L-03F APN Tool is being operated.
- "Access point name (APN)" on L-03F Connection Manager does not go with "APN (Access Point No.)" on L-03F APN Tool.
- For Windows 7, L-03F Connection Manager may not be activated depending on the setting of mobile broadband auto connection. Set to "Never connect automatically".
- If use L-03F Connection Manager, do not connect with wired or wireless LAN.
- Packet communication via L-03F Connection Manager is high speed NDIS type (similar to wireless LAN type). Dial-up connection is also available. →P73
Mac supports only NDIS type.
- L-03F Connection Manager and dial-up connection cannot be conducted at the same time.


Launching/Exiting Connection Manager

■ For Windows

1 Connect to a PC

- L-03F Connection Manager starts automatically and the Home screen appears. (→P51)

■ Exiting

- Click  on the top of Home screen.

■ For Mac

1 Connect to a PC

- When connected to a PC, the L-03F is recognized as a CD-ROM first and a CD-ROM icon appears on the desktop. Drag the CD-ROM icon into trash bin to have the L-03F recognized as a modem.

2 Start Finder ▶ Click "Applications" ▶ "L-03F_Connection_Manager"

- L-03F Connection Manager starts automatically and the Home screen appears. (→P51)

■ Exiting

- Click "L-03F Connection Manager" on the menu bar ▶ Quit L-03F Connection Manager.

Note

- It may take some time before L-03F Connection Manager activates when this terminal is connected to the PC.

Home Screen



■ Home screen during packet communication

a Version information button






- Click to display version information of L03F Connection Manager.
- Latest software can be checked. (→P60)

b Operation tabs

- Tabs for Home screen and settings are functioning.

 Home	Home screen (→P51)
 Setting	Setting screen (→P54)

c This terminal status area

	Signal bar
	Strong ← → Weak
	Not connected* ¹ /during packet communication (with no sent or received data)* ²
	(Out of service) Out of service area/In the area with no signal
	Network type LTE WCDMA W-CDMA* ³ , HSDPA HSDPA* ⁴ , HSUPA HSUPA* ⁴ , LTE LTE* ⁵ , GPRS GPRS* ⁶

※¹ Antenna bars for showing receiving sensitivity are only displayed during packet communication.

※² A long period with no sent or received data.

※³ "W-CDMA (3G)"

A third generation mobile communication network complying with 3GPP Global standards. 3GPP means 3rd Generation Partnership Project. The local standardization organization established for the development of common technical specifications related to 3rd Generation Mobile Communication Systems (IMT-2000).

※⁴ "HSDPA" (Short for High Speed Downlink Packet Access)

"HSUPA" (Short for High Speed Uplink Packet Access)

A high speed type of W-CDMA data communication. It is called "3.5G" since it is the improvement version of 3rd generation (3G) cell phone, "W-CDMA".

※⁵ "LTE" (short for Long Term Evolution) is a technology level between 3rd generation (3G) and 4th generation (4G) mobile phone. It is known as "3.9G".

※⁶ "GPRS" (Short for General Packet Radio Service)

GPRS is the 2.5 generation mobile communication system that enables high speed packet communication using GSM.


d Connection status display area

- Connection status (Connected/Disconnected) is shown. If no data communication is performed for a long time while being connected, "Connecting (no data transmission)" appears.

e Connect/disconnect Internet button

- Click to connect or disconnect Internet.

f Minimize button

- The minimized window residents on Windows taskbar. To reopen the minimized window, click  on taskbar.

g Quit button

- Exit L-03F Connection Manager.

h Carrier display area

- The name of the connected carrier is displayed.
- While international roaming, the name of the connected carrier is displayed if "Operator name display" is set to "Show". (→P92)

i APN name area

- Current APN name is displayed.

j Own phone number area

- Own phone number is displayed.

Using Packet Communication

If Automatic connection setting is ON in the Setting screen (→P59), connecting this terminal to a PC activates L-03F Connection Manager and enables packet communication. On Mac OS, activating L-03F Connection Manager while Automatic connection setting is ON enables packet communication.

- ※ Since Automatic connection setting is ON by default, packet communication becomes available if L-03F Connection Manager is activated.

Starting Packet Communication

When Automatic connection setting is ON

1 Connect this terminal with a PC

- For Windows, L-03F Connection Manager is activated automatically.
For Mac, activate L-03F Connection Manager manually.
- "Connected" appears for Connection status.

When Automatic connection setting is OFF

- Set auto connection to OFF beforehand.



1 Connect this terminal with a PC

- For Windows, L-03F Connection Manager is activated automatically.
For Mac, activate L-03F Connection Manager manually.

2 Click in Home screen

- "Connected" appears for Connection status.

Note


- The default setting of APN is "mopera.net". Set Profile setting to change APN. →P55
- A message of "Failed to connect. Do you want to try again?" appears when connection fails. Check APN and connect again.
- If the PC goes to sleep or turns off while this terminal is connected via packet communication, connection may not be established after resume. Disconnect packet communication and remove the terminal from the PC before the PC goes to sleep or turns off.
- Clicking  with Automatic connection setting ON does not reconnect automatically. To execute packet communication again, click .
- For Mac OS, when L-03F communication device is not set, a message "The "docomo L03F" network interface has not been set up. To set up this interface, use Network Preferences." appears. Click [Network Preferences...] on the screen. When "Network" screen appears, check "docomo L03F" is displayed and click [Apply]. Clicking [Cancel] in the message box exits L-03F Connection Manager. Activate L-03F Connection Manager again.
- "User name", "Password", "Authentication method" for the Profile setting (→P55) and Automatic connection setting (→P59) are managed by user account.

Disconnecting Packet Communication


Click  in Home screen

- Packet communication will be disconnected.

Note

- Clicking  does not turn off Automatic connection setting. Set Automatic connection setting to OFF not to connect automatically.
- Packet communication may automatically be disconnected depending on the network condition or location.
- In packet communication, fees apply on the amount of sent/received data. Note that the communication fees may become high if you perform heavy communication such as browsing websites which include large multi-media contents or downloading a large size of data.
- Depending on the auto connection setting of mobile broadband of Windows 7, communication via mobile broadband may start when L-03F Connection Manager is closed. Not to connect automatically, set to "Never connect automatically" in auto connection setting of mobile broadband. →P65

Settings

Setting screen appears if clicking  in Home screen.

- The Setting screen cannot be displayed during packet communication. Disconnect packet communication to make the settings.

Setting item	Description	Page
Used amount	Confirm packet usage.	P55
Profile setting	Set basic items for packet communication.	P55
DOCOMO UIM card setting	"Lock PIN1", "Unlock PIN1", and "Change the PIN1 code" are available.	P56
Network setting	Settings for overseas use such as roaming can be made.	P92
Automatic connection setting	Set whether to automatically connect to the Internet.	P59
Language setting	Set language displayed on the screen.	P59
Check latest SW setting	Set whether to automatically check the latest software.	P60
Reset L-03F	Reset this terminal.	P61

Confirming Packet Usage

- Check the amount of sending and receiving data.

1 Click "Used amount" in Setting screen

Packet usage is displayed.

Total use amount:


Accumulated total data usage

Use amount of this month:

Usage from 1st of this month to current

Previous use amount:

Data usage of current session

 : Reset "Total use amount" and "Use amount of this month", respectively.

 : Click to reset all the amount.

Note

- The data usage displayed on the screen may differ from the actual volume of packet communication.

Setting Profile

- Set basic items for packet communication.

1 Click "Profile setting" in Setting screen


2 Perform the following operations

Access point name (APN): APN for packet communication

User name: ID supplied by your provider

Password: Supplied by your provider

Authentication method: To enable to use this terminal

 : Click to change settings.

 : Click to return to default setting.

3 Click [Set]

A message to confirm is displayed.

4 Click [Yes]

5 Click [OK]

Note

- "Connection type" is set according to the IPv4, IPv6 IP address setting by network settings in the OS.
- Click [Set] to renew the settings. Always remember to click when changing settings.
- If ID or password is wrong, Internet connection cannot be made.
- Set the content of each profile according to the values specified by each provider or network administrator. Connection does not correctly perform with wrong settings.
- You can connect to "mopera U" even if "User name" and "Password" are in blank.

Setting a UIM

- "Lock PIN1", "Unlock PIN1" and "Change PIN1 code" are available.

1 Click "DOCOMO UIM card setting" in Setting screen

DOCOMO UIM card setting screen is displayed.

Locking PIN1

- Set security to UIM.

1 Select "Lock PIN1" in DOCOMO UIM card setting screen

Entering PIN1 code screen is displayed.

2 Enter the PIN1 code set in UIM

3 Click [OK]

4 Click [OK]

Note

- If you lock PIN1 then remove and insert this terminal, PIN1 code entry screen appears when L-03F Connection Manager restarts. Enter a correct PIN1 code to use this terminal.

Unlocking PIN1

- 1 Select "Unlock PIN1" in DOCOMO UIM card setting screen

Entering PIN1 code screen is displayed.

- 2 Enter the PIN1 code set in UIM

- 3 Click [OK]

- 4 Click [OK]

Note

- If PIN1 is unlocked, you can use UIM information from this terminal without verifying PIN1 code.

Changing PIN1 Code

- Set the password required when unlocking or locking PIN1.
- Changing PIN1 code is only available when PIN1 is locked.

- 1 Click [Change PIN1 code] in the DOCOMO UIM card setting screen

- 2 Enter the current PIN1 code set in UIM in "PIN1 code" field

- 3 Enter new PIN1 code in "New PIN1 code"
Enter a 4- to 8- digit PIN1 code.

- 4 In "Confirm new PIN1 code", enter the PIN1 code that has been entered in "New PIN1 code" code again

- 5 Click [Set]

- 6 Click [OK]

Entering PIN1 Code

- When L-03F Connection Manager is started after setting PIN1 lock or it is restarted to reset this terminal, PIN1 code input screen will appear.

1 Enter PIN1 code

Enter the 4- to 8- digit PIN1 code.

2 Click [OK]

3 Confirm the result after entering PIN1 code

Ex.1 : When PIN1 code is entered correctly
Home screen of L-03F Connection Manager is displayed.

Ex.2 : When PIN1 code is entered incorrectly

Ex.3 : When PIN1 code is entered incorrectly for 3 times in a row.

- If you improperly enter the PIN1 code 3 times in a row, the unblocking PIN code entry screen will be displayed.

■ Unblocking PIN code setting

- a Enter the unblocking PIN code set your UIM to "PIN unlocking code"
- b Enter a new PIN1 code in "New PIN1 code"
- c In "Confirm new PIN1 code", enter the PIN1 code that has been entered in "New PIN1 code" code again
- d Click [Set]

Making Automatic connection setting

- Set whether to automatically connect to the Internet when L-03F Connection Manager is activated.
- Automatic connection setting is not available during international roaming.

1 Click "Automatic connection setting" in Setting screen

2 Select "ON (Recommended)" or "OFF"

3 Click [Set]

4 Click [OK]

Setting language

- Select Japanese or English as a display language for L-03F Connection Manager.

1 Click "Language setting" in Setting screen

2 Select "English" or "Japanese"

3 Click [Set]

4 Click [OK]

Caution

- If you select Japanese on an OS other than Japanese version, specified settings or installations may be required. For details on settings, contact your computer manufacturer or Microsoft Corporation.

Setting to check the latest software

- Set whether to automatically check the latest software each time L-03F Connection Manager is activated.

1 Click "Check latest SW setting" in Setting screen

2 Select "ON" or "OFF"


ON : Check the latest software each time L-03F Connection Manager is activated.

OFF : Check the latest software by clicking  on the information screen of L-03F Connection Manager.

3 Click [Set]

4 Click [OK]

Checking the version information

Click  on the title bar in the L-03F Connection Manager screen to display information about L-03F Connection Manager software.

 : Click to check updates.

Note

- For information on how to update the software, see "Updating Software". →P118
- Software update is not available on Mac OS. Update software on Windows.

Resetting this terminal

Reset this terminal if it does not work properly.

1 Click  in Setting screen

2 Click 

This terminal starts resetting. After the reset finishes, it will return to the Home screen.

- A message "L-03F is not recognized" may temporarily be displayed. This terminal will be detected after a while.

Mobile Broadband

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Mobile Broadband

Use the mobile broadband installed in Windows 7 to communicate packet. Only Windows 7 supports mobile broadband.

In this manual, operations such as connecting/disconnecting mobile broadband, changing APN or setting PIN lock are described.

Visit Microsoft website for detailed information.

For connecting this terminal with Internet, agreement with the ISP (mopera U etc.) supporting service and data communication is required.

Visit DOCOMO website for detailed information (Japanese only).

- ※ For the following procedures, description will be based on the installation via only Communication Configuration File (Driver).
- If you use mobile broadband, install the communication configuration file (Driver) only.

Viewing Screen

■ APN screen

a Current APN

- While connecting mobile broadband, the current APN will be displayed.

b APN list

- If click APN, "Connect" button/"Disconnect" button will be displayed.

■ Property screen for setting each item

a Setting tabs on Property screen

Subscription: Display provider details, own number, etc.

Profile : Set APN or auto connection. (→P66)

Roaming* : Select a network to use while roaming.



Security : When connecting mobile broadband, set PIN authentication. (→P67)

※ Display only during international roaming.

Connecting through Mobile Broadband

1 Connect this terminal with a PC

■ When connecting for the first time

- Click  (if network connection is not made) or  in the task tray displayed on the bottom right
- Right click "DOCOMO" and click "Connect"
- Set each item ► Click "Continue"
 - Enter APN in "APN" field.
 - Enter the settings specified by your provider or network administrator in "User name" and "Password".
 - If connect to "mopera U", connection is available with "User name" and "Password" blank.
- Set auto connection ► Click "Continue"
 - Select from "Connect automatically except when roaming", "Always connect automatically" or "Never connect automatically" in pull-down menu.

2 Follow the auto connection setting on profile tab to connect



■ Connect automatically except when roaming

- Connect automatically while using in Japan. While roaming, operations are the same as **■ Never connect automatically**.

■ Always connect automatically

- Connect automatically after connecting with this terminal.



■ Never connect automatically

- Click  (if network connection is not made) or  in the task tray displayed on the bottom right
- Select "DOCOMO" ► Click [Connect]




Note

- A screen to confirm PIN1 code appears according to the setting. Enter PIN1 code after the screen appears.
- When mobile broadband is used to connect data communication, L-03F Connection Manager and dial-up connection are not available.
"Disconnect" the mobile broadband or set auto connection setting to "Never connect automatically" to enable to use L-03F Connection Manager or dial-up connection.
- If select "Always connect automatically", the amount of packet transmission may go huge due to the long time connection. Note that hefty fee may result.
- Note that communication fees may become high when "Always connect automatically" is set during overseas use.

Disconnecting Mobile Broadband




- 1 Click  or  in the task tray on the bottom right
- 2 Select "DOCOMO" ► Click [Disconnect]

Changing APN Settings

- 1 Connect this terminal with a PC
- 2 Click  ( if network connection is not made) or  in the task tray on the bottom right
- 3 Right click "DOCOMO" and click "Properties"
- 4 Click "Profile" tab ► Set each item
 - Enter APN in "APN" field.
 - Enter the specified settings by provider or network administrator in "User name", "Password" field.
 - If connect to "mopera U", connection is available even if "User name" and "Password" are in blank.
 - In "Autoconnect" field, select from "Connect automatically except when roaming", "Always connect automatically" and "Never connect automatically".
 - If a PC accesses Internet via LAN, check the check box of "Autoconnect only if no alternate Internet connection is available" not to connect automatically on Windows.
- 5 Click [OK]

Setting UIM

- [Enable PIN...], [Disable PIN...] and [Change PIN...] can be performed on UIM.

- 1** Connect this terminal with a PC
- 2** Click  ( if network connection is not made) or  in the task tray on the bottom right
- 3** Right click "DOCOMO" and click "Properties"
- 4** Click "Security" tab ► Set each item
 - Set PIN1 lock in [Enable PIN...].
 - Unlock PIN1 in [Disable PIN...].
 - Change PIN1 in [Change PIN...].

Note

- If connect mobile broadband under PIN validation, PIN1 code entry screen is displayed. In this case, this terminal cannot normally function with wrong PIN1 code.
- If entering PIN1 code is failed 3 times in a row, PIN code will be locked. In that case, enter unblocking PIN code.
- If entering unblocking PIN code is failed 10 times in a row, UIM will be locked automatically. In that case, contact a docomo Shop.
- If set to PIN invalidation, mobile broadband connection is available without confirming PIN1 code.

Configuring Network Manually

Windows Version 70

Windows Version

Setting APN Using L-03F APN Tool

Set the settings required when connecting dial up manually through L-03F APN Tool.

Set the access point (APN) in packet communication of dial-up connection. Up to 10 APN can be set up and they are managed with cid's.

- While L-03F Connection Manager is activated, L-03F APN Tool cannot be activated.
- The registration number (cid) 1 is pre-installed to mopera.net. Use cid2 to cid10 to set another APN.
- For APNs other than "mopera U", contact your ISP or network administrator.

1 Connect this terminal with a PC

2 Double click L-03F APN Tool icon  (purple) on the desktop

L-03F APN Tool is launched.

3 Select "CID No." field to set ► Click [Add/Edit]

■ Deleting APN

- a Select "CID No." field to delete
- b Click [Remove]
- c Click [Yes]
- d Click [Save]
- e Click [OK]

■ Initializing APN

- a Click [APN Reset]
- b Click [Yes]
- c Click [Save]
- d Click [OK]

4 Enter the APN in "APN" field ► Click [Set]

5 Click [Save]

Confirmation screen appears.

6 Click [OK]

The setting of APN finishes.

Setting APN Without Using L-03F APN Tool

Describe how to set an APN by using "Hyper Terminal" attached on standard Windows XP.

- Windows 7 and Vista do not support "Hyper Terminal". Setting with software compatible with each OS is required. For setting instructions, refer to the instructions for each OS.

1 Connect this terminal with a PC

2 Click [start] ► "All Programs" ► "Accessories" ► "Communications" ► "Hyper Terminal"

Hyper Terminal starts.

3 Enter a connection name in "Name" field ► Click [OK]

4 Enter a number does not exist (like "0") in "Phone number" field ► Check that "docomo L03F Modem Driver" is displayed in "Connect using" ► Click [OK]


- If two or more modem names are displayed in the "Connect using" field, check this terminal modem name and select a proper one. (→P38)

5 Click [Cancel] on connection screen

The Hyper Terminal screen opens.

6 Enter the APN in the following format

► Press 

Enter AT+CGDCONT=<cid>,<PDP type>,<APN>


Enter the following information in the corresponding <cid>, <PDP type> and <APN> sections.

If "OK" appears after you enter the information, the APN has been setup.

cid : Enter any number from 2 to 10.
※ Keep in mind that the old setting information will be overwritten if you select a cid number which has been set.

PDP type : Enter a connection method. Enter IP enclosed in quotation marks " " .

APN : Enter an (APN) enclose it in quotation marks " " .

• If the entered characters do not appear, enter ATE1  .

■ To reset the specified cid APN settings

Enter AT+CGDCONT=<cid>

■ To view the registered APN

Enter AT+CGDCONT?

7 Confirm if "OK" is displayed

8 Click "File" ► "Exit"

9 Click [Yes] on confirming disconnection screen ► Click [No] on the confirming to save screen

Hyper Terminal quits, and the settings of the APN complete.

Note

- The APN information is saved in this terminal. If you connect a different terminal, save the APN information again.
- If you want to use the APN information registered on the PC, register the same APN in the same cid of this terminal.
- When setting connection through PDP type, enter the specified content by each provider or network administrator.


Configuring Dial-up Network Manually

Set up the dial-up network on the PC.

- For setting up a connection to other than "mopera U", contact your ISP or network administrator.

Example: Connecting to the DOCOMO Internet connection service "mopera U", which is registered to <cid>=1

For Windows 7

- 1 Click  (Start) ► "Control Panel" ► "Network and Internet" ► "Network and Sharing Center"
- 2 Click "Set up a new connection or network"

- 3 Select "Set up a dial-up connection" ► Click [Next]

4 When the modem selection screen appears, click "docomo L03F Modem Driver"

The modem selection screen opens only if two or more modems are connected to a PC.

5 Configure each setting, then click [Connect]

- Enter *99***<cid># in the "Dial-up phone number". Enter the registration number of an APN set in <cid>. (→P70)
- Enter the user name and password specified by your ISP or network administrator in the "User name" and "Password" fields.
- You can leave the "User name" and "Password" fields unfilled when connecting to "mopera U".
- Enter a connection name in the "Connection name" field.

6 Click "Skip" on the "Connecting to (APN)..." screen

The connection test will not be performed. Only the settings will be checked.

7 Click [Close]

8 Click  (Start) ► "Control Panel" ► "Network and Internet" ► "Network and Sharing Center"

9 "Change adapter settings" ► Select the created dial-up icon ► Right click the icon and select "Properties"

10 Check the settings on the "General" tab window

If two or more modems are connected to a PC, enable only "Modem - docomo L03F Modem Driver" in the "Connect using" field.

- Disable "Use dialing rules".

11 Click "Networking" tab ► Configure each setting


The settings for "QoS Packet Scheduler" in "This connection uses the following items" field should follow your ISP or network administrator. Do not change the other items.

- When the IP and DNS information settings are requested by your ISP, etc., select "Internet Protocol Version 6 (TCP/IPv6)" or "Internet Protocol Version 4 (TCP/IPv4)", then click "Properties" to make the settings. For setting details, contact your ISP or network administrator.

12 Click the "Options" tab ► Click [PPP Settings...]

13 Remove check marks from all items ► Click [OK]

14 On the "Options" tab window, click [OK]

- 1 Click  (Start) ► "Connect to"
- 2 Click "Set up a connection or network"

- 3 Select "Set up a dial-up connection" ► Click [Next]

4 When the modem selection screen appears, click "docomo L03F Modem Driver"

The modem selection screen opens only if two or more modems are connected to a PC.

5 Configure each setting, then click [Connect]

- Enter *99***<cid># in the "Dial-up phone number". Enter the registration number of an APN set in <cid>. (→P70)
- Enter the user name and password specified by your ISP or network administrator in the "User name" and "Password" fields.
- You can leave the user name and password fields unfilled when connecting to "mopera U".
- Enter a connection name in the "Connection name" field.

6 Click [Skip] on the "Connecting to (APN)..." screen

The connection test will not be performed. Only the settings will be checked.

- If you do not click [Skip], the connection to the Internet will be established.

7 Click "Set up the connection anyway" ► [Close]

8 Click (Start) ► "Connect to"

9 Select the created dial-up connection icon ► Right click "Properties"

10 Check the settings on the "General" tab window

If two or more modems are connected to a PC, enable only "Modem - docomo LO3F Modem Driver" in the "Connect using" field.

- Disable "Use dialing rules".

11 Click "Networking" tab ► Configure each item

The settings for "QoS Packet Scheduler" in "This connection uses the following items" field should follow your ISP or network administrator. Do not change the other items.

- When the IP and DNS information settings are requested by your ISP, etc., select "Internet Protocol Version 6 (TCP/IPv6)" or "Internet Protocol Version 4 (TCP/IPv4)", then click "Properties" to make the settings. For setting details, contact your ISP or network administrator.

- 12 Click the "Options" tab ► Click [PPP Settings...]
- 13 Remove check marks in all items ► Click [OK]

- 14 On the "Options" tab window, click [OK]

For Windows XP

- 1 Click [start] ► "All Programs" ► "Accessories" ► "Communications" ► "New Connection Wizard"
- 2 On the "New Connection Wizard" screen, click [Next]

3 Select "Connect to the Internet" ► Click [Next]

4 Select "Set up my connection manually" ► Click [Next]

5 Select "Connect using a dial-up modem" ► Click [Next]

6 If "Select a Device" screen appears, check in "Modem - docomo LO3F Modem Driver" check box ► Click [Next]

The "Select a Device" screen appears only if two or more modems are connected to a PC.

7 Enter a name in the "ISP Name" field ► Click [Next]

8 Enter the APN number in the "Phone number" field ► Click [Next]

- Enter `**99***<cid>#`. Enter the registered number of APN in `<cid>`. (→P70)

9 Select the connection usage range ► Click [Next]

Select a user.

- Depending on the PC settings, this screen may not appear.

10 Fill in the "User name", "Password", and "Confirm password" fields ► Click [Next]

Enter the information provided by your ISP or network administrator.

- Enter "User name" and "Password" correctly according to the instruction from the provider. Pay attention to the capital characters.
- For "mopera U", connection is available with "User name" and "Password" blank.

11 Click [Finish]

12 Click [start] ▶ "All Programs" ▶
"Accessories" ▶ "Communications" ▶
"Network Connections"

13 Select the created dial-up connection icon ▶
Right click ▶ Click "Properties"

14 Check the settings on the "General" tab window

- If two or more modems are connected to a PC, enable only "Modem - docomo L03F Modem Driver" in the "Connect using" field.
- Disable "Use dialing rules".

15 Click the "Networking" tab ► Confirm each item

- Select "PPP: Windows 95/98/NT4/2000, Internet" in the "Type of dial-up server I am calling" field.
- Do not change the settings in "This connection uses the following items" field.
- When connecting to a provider, to confirm the TCP/IP settings contact the provider or network administrator.

16 Click [Settings]


17 Remove check marks from all items ► Click [OK]

18 Click [OK] on the "Networking" tab window


Communicating (Connecting by Dial-up)

This section describes steps to start and terminate communication without using L-03F Connection Manager or Mobile Broadband.

- Check whether this terminal and the PC are connected properly before starting communication. (→P20)
- When performing communication, connect this terminal you used to configure the settings. If a different terminal is connected, L-03F Connection Manager (including a drivers) may need to be reinstalled.
- When set PIN1 lock using L-03F Connection Manager, start after unlocking PIN1.

1 Click  (Start) ► "Control Panel" ► "Network and Internet" ► "Network and Sharing Center" ► "Change adapter settings" ► Double click the set APN icon

■ For Windows Vista

- Click  (Start) ► "Connect to" ► Select the set APN ► Click [Connect].

■ For Windows XP

- Click [start] ► "All Programs" ► "Accessories" ► "Communications" ► "Network connections" ► Double click the set APN icon.

2 Enter "User name" and "Password" ► Click [Dial]

The APN will be connected.

- To connect to "mopera U", you can leave the " User name" and "Password" fields unfilled and click [Dial]. If another ISP or dialup connection is selected, fill in the "User name" and "Password" fields and click [Dial].
- You can save the user name and password or just the password to skip entering them next time.
- Depending on the operating system, a connection completion screen may appear when the dial-up connection is established. However, the connection completion screen does not appear if you previously set the completion message not to appear.

Disconnecting Communication

Exiting the Internet browser may not terminate the connection. Perform the following steps to terminate the connection securely.

1 Click (dial-up icon) on the task tray of a PC

A screen indicating the connection status appears.

2 Select an APN ► Click [Disconnect]

Communication is disconnected.

■ For Windows Vista

- Click "Connect or disconnect..." ► "Disconnect".

■ For Window XP

- Click [Disconnect].

Note

- The communication speed shown on the PC screen may be different from the actual communication speed.

Overseas Use

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International Roaming Service (WORLD WING)

International roaming service enables you to use this terminal domestically in a service area of international carrier associated with DOCOMO.

■ Available area

This terminal can be used in 3G network and GPRS network service areas. Also, it can be used in the countries and areas that support 3G850MHz. Check available areas.

- Before using this terminal overseas, see the following items.
 - "Mobile Phone User's Guide [International Services]"
 - DOCOMO International Services website
- For areas out of Xi area such as overseas, connect to 3G or GPRS network.

Services Available Overseas

Service	Description
Data Communication	Available for data communication using packets communication.

Note

- For details on available communication services while using international roaming, refer to Mobile Phone User's Guide [International Services] or visit DOCOMO "International Service Website".
- L-03F does not support voice call or video telephony features.

Before Using Overseas

STEP1 : Before Leaving Japan

STEP2 : While Overseas

STEP3 : After Coming Back to Japan

Before Leaving Japan

■ Subscription

- "WORLD WING" is always applied together with your subscription. Contact My docomo, docomo Shop or docomo Information Center for details.
- A UIM made available for "WORLD WING" must be inserted in this terminal.

■ Power source and voltage in the country or region of stay

- Countries and regions may have different power sources, voltages or power outlet shapes. Check these in the INSTRUCTION MANUAL for your PC or websites of the PC manufacturer in advance.

■ Network setup

- You can change network setup from overseas. (→P92)

■ Usage charge

- The charge for usage (bill for packet communication) abroad is different from the charge in Japan.

■ Internet access

- For overseas access points or settings for using the Internet overseas, contact your ISP.
- If you subscribe to mopera U, visit the mopera U website. <http://www.mopera.net/> (Japanese only)

■ Automatic connection for Mobile Broadband

- Note that if you use packet communication overseas using Windows 7 mobile broadband with the automatic connect setting to "Always connect automatically". (→P65) communication fees may become extremely high.

While Overseas

■ Switching networks

Available networks are detected automatically by default.

■ Home screen

The name of the connected carrier is displayed if "Operator name display" is set to "Show". (→P92)
Also the information of the Internet being connected is displayed. (→P51)

Note

- You can manually switch networks if you want to connect to a particular network. See Step 3 of "Configuring Network". →P93

Inquiries overseas

If your UIM is lost or stolen overseas, contact DOCOMO immediately and temporarily suspend your subscription. For inquiry information, see "docomo Information Center" on the back of this manual. Call or data communication charge will still on you after the terminal was lost or stolen.

After Coming Back to Japan

After coming back to Japan, you can use within Xi area or FOMA area.

■ If connection cannot be established

Set "3G/GPRS switching" in "Network setting" (→P92) to "Automatic" and "Network discovery method" to "Automatic search".

Setting the Searching Method for Available Networks

Switching Carriers Manually

This terminal is set to automatically find and switch to an available network in the country of stay by default.

However, if you have a preferred network in the area or network cannot be found automatically, you can set to a network manually. For details, see Step 3 of "Configuring Network". (→P93)

Configuring Network

- Allow you to configure network by L-03F Connection Manager.
- Available if you come back to Japan with international roaming set or "Manual search" for "Network discovery method" selected during international roaming.

1 Click "Network setting" in Setting screen (→P54)

2 Specify a network to connect under "3G/GPRS switching"

3 Specify a search method from "Network search method"


■ [Automatic search]

Network can be searched automatically.

■ [Manual search]*

- Connect to the listed networks manually.
- How to manually configure network
 - Select [Manual search].
 - Click [Yes].
 - The available network list will be displayed after searching.

(○): Available, (×): Unavailable are shown after the detected network operators name.

- Select one from the available networks.
- Click .
- Click [Yes].

※ If you manually select a network overseas, reset to "Automatic search" after coming back to Japan.

4 Specify whether to show or hide the network information in "Operator name display"


■ [Show]

- The name of the network receiving current service is displayed on the screen.

■ [Hide]

- The name of the network receiving current service is not displayed on the screen.

5 Click the applicable

- The information entered will not be set without clicking the applicable .

6 Click [Yes]

7 Click [Close]

Note

- Connecting to Internet may not be able to operate properly when network settings are changed manually.

Note

- While using overseas
 - If "Network search method" is set to "Automatic search", this terminal will search the available carrier automatically and connect again if move to an area out of service.
 - Some communication services may not be available depending on the overseas carrier or network.
 - If you set only "Internet Protocol Version 6 (TCP/IPV6)" under Windows 7 or Windows Vista, you may not connect to the Internet overseas. If a message notifying unavailability of Internet connection, mark "Internet Protocol Version 4 (TCP/IPV4)" on the properties screen for "Mobile Broadband connection" or "Local area Connection" in "docomo L03F USB NDIS Driver", the device name for network settings, to change the setting.

Appendix/Troubleshooting

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AT Commands

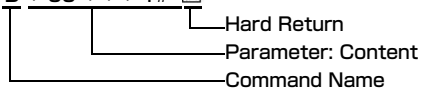
AT commands are used to check this terminal function settings or status by using a PC. Usually, the communication software issues AT commands so you do not need to be concerned about them. Use AT commands if you want to control this terminal in your own way.

Form of AT Commands


AT commands should be entered on the Terminal Mode screen of the communication software. Use only single-byte alphanumeric characters.

<Example>

ATD * 99 * * * 1# 



Hard Return
Parameter: Content
Command Name

- An AT command must be entered on a single line including parameters (numbers and symbols) following the command. On the Terminal Mode screen of the communication software, "one line" is from the first character to the character before .

Note

- In the Terminal mode, a PC functions as a communication terminal. Characters entered from the keyboard are sent to a line connected to a communication port.

AT Command List

The following AT commands can be used on the "L-03F" modem port.

- [&F] : A command to initialize settings used as AT&F command.
- [?][=?] : The current settings appear when adding "?" at the end of the command, and the effective range of the current settings appears when adding "=?" at the end of the command.

Command	Overview	Parameters/Description	Examples of Commands
AT	OK is displayed.	-	AT OK
AT&C<n> [&F]	Select the operating conditions of the circuit CD signal for TE.	n=0: Always keeps CD signal ON n=1 (default): CD changes depending on the other party's modem status.	AT&C1 OK
AT&D<n> [&F]	Select the operation when receiving circuit ER signal from TE.	n=0 : Same as n=2 n=1 : Same as n=2 n=2 (default) : If ER signal is changed from ON to OFF, line will be disconnected and become offline command.	AT&D1 OK
AT&F<n>	Reset the settings on this terminal with the nonvolatile memory contents. If performed during a communication, the line is disconnected.	Only n=0 can be set (Skippable)	AT&F OK
AT+CEER	Set up error report is displayed.	-	AT+CEER +CEER: 36 OK

Command	Overview	Parameters/Description	Examples of Commands
AT+CEREG=<n> [&F] [?] [=?]	Set if notify EPS network registration.	<p><n> : Set if send unsolicited result code n=0 : Do not send unsolicited result code (default) n=1 : Send network registration status as unsolicited result code n=2 : Send network registration status and location information as unsolicited result code</p> <p><stat> : Packet data exchange network registration status stat=0 : Outside area and not searching stat=1 : Within area (HOME) stat=2 : Outside area and Attach or searching stat=3 : Registration is refused stat=4 : Unclear (other) stat=5 : Within area (while roaming)</p> <p><lac> : Location area code This parameter is string parameter. It will be surrounded by "". Notation as a hex of 2byte.</p> <p><ci> : Cell ID This parameter is string parameter. It will be surrounded by "". Notation as a hex of 4byte.</p> <p><AcT> : Within area AcT=0 : GSM AcT=2 : 3G (FOMA) AcT=7 : LTE (Xi)</p> <p><rac> : Routing area code This parameter is string parameter, it will be surrounded by "". Notation as a hex of 1byte.</p>	AT+CEREG? +CEREG: 2,1,"00C3","01","00 00C4D1",7 OK
AT+CGDCONT [?] [=?]	Set APN when sending Packet communication.	Refer to P111	Refer to P111

Command	Overview	Parameters/Description	Examples of Commands
AT+CGEQMIN [?] [=?]	Register criteria value for determining if QoS (Quality of Service) sent from network when PPP Packet communication is established is acceptable or not.	Refer to P111	Refer to P111
AT+CGEQREQ [?] [=?]	Set QoS(Quality of Service) to request for the network when PPP Packet communication starts.	Refer to P111	Refer to P111
AT+CGMR	Display IMEISV value of this terminal.	-	AT+CGMR 1234512345123 456 OK

Command	Overview	Parameters/Description	Examples of Commands
AT+CGREG=<n> [&F] [?] [=?]	Set if notify GPRS network registration.	<p><n>: Set if send unsolicited result code n=0 : Do not send unsolicited result code (default) n=1 : Send network registration status as unsolicited result code n=2 : Send network registration status and location information as unsolicited result code</p> <p><stat> : Packet data exchange network registration status stat=0 : Outside area and not searching stat=1 : Within area (HOME) stat=2 : Outside area and Attach or searching stat=3 : Registration is refused stat=4 : Unclear (Other) stat=5 : Within area (while roaming)</p> <p><lac> : Location area code This parameter is string parameter. It will be surrounded by ". Notation as a hex of 2byte.</p> <p><ci> : Cell ID This parameter is string parameter. It will be surrounded by ". Notation as a hex of 4byte.</p> <p><AcT> : Within area AcT=0 : GSM AcT=2 : 3G (FOMA) AcT=7 : LTE (Xi)</p> <p><rac> : Routing area code This parameter is string parameter. It will be surrounded by ". Notation as a hex of 1byte.</p>	AT+CGREG? +CGREG: 2,1,"00C3",0000C 4D1",2,"01" OK
AT+CGSN	Display the serial number of this terminal.	-	AT+CGSN 12345678901 2345 OK

Command	Overview	Parameters/Description	Examples of Commands
AT+CIND [?] [=?]	The signal status of this terminal is displayed. Execute "AT+CIND=?", then appears as "+CIND:<battchg>,<signal>,<service>".	<battchg> battchg=0~5 : Battery charge level * Not supportive. <signal> signal=1 : 0 or 1 bar of antenna is displayed signal=3 : 2 bars of antenna are displayed signal=5 : 3 bars of antenna are displayed <service> service=0 : Out of area service=1 : Within area	AT+CIND? +CIND:5,5,1 OK AT+CIND=? +CIND:("battchg",(0-5)),("signal",(0-5)),("service",(0,1)) OK
AT+CLCK=<fac>,<mode>[,<passwd>] [=?]	Change PIN lock setting and inquire the setting items.	<fac>: Lock type fac="SC" : Operation of setting UIM PIN lock <mode>: Lock control mode=0 : Unlock PIN lock mode=1 : Set PIN lock mode=2 : Status of PIN lock <passwd>: PIN code Execute "AT+CLCK="SC".2", then appears as "+CLCK:<state>". <state>: Lock status 0 : PIN is unlocked 1 : PIN is locked	AT+CLCK="SC".0."000" OK AT+CLCK="SC".2 +CLCK:1 OK


Command	Overview	Parameters/Description	Examples of Commands
AT+CMEE=<n> [&F] [?] [=?]	Set the error report form of this terminal.	n=0: Display "ERROR". (default) n=1: Display in the form of "+CMEE ERROR: xxxx" (where xxxx are numbers) n=2: Display in the form of "+CMEE ERROR: xxxx" (where xxxx are text) ※ If using ATZ or AT&F command to default, "0" is setup. Note that when connecting L-03F to power, the value of ATZ or AT&F command differs.	AT+CMEE=0 OK AT+CMEE? +CMEE:0 OK AT+CMEE=? +CMEE:(0-2) OK
AT+ CNUM	Display the own number of this terminal.	Executing "AT+CNUM" displays in the form of "+CNUM: <number>, <type>". number: phone number type=129: Excluding the international access code+ type=145: Including the international access code+	AT+CNUM +CNUM: "09012345678",1 29 OK

Command	Overview	Parameters/Description	Examples of Commands
<pre>AT+COPS= [<mode> [<format> [,<oper> [<AcT>]]]] [?] [=?]</pre>	<p>Select network operator and set.</p>	<p><mode> Parameter is supporting 0-4.</p> <p><format> Parameter is only supporting 2(default).</p> <p><oper> MCC+MNC For example, if PLMN Number is 440 (MCC) 10 (MNC), <oper>="44010".</p> <p><stat> Parameter is supporting the followings. stat=0 : unknown stat=1 : available stat=2 : current stat=3 : forbidden</p> <p><AcT>: Within area AcT=0 : GSM AcT=2 : 3G (FOMA) AcT=7 : LTE (Xi)</p>	<pre>AT+COPS=0 OK AT+COPS? +COPS:0 OK AT+COPS=1,2,"44 010",7 OK</pre>

Command	Overview	Parameters/Description	Examples of Commands
AT+CPAS [=?]	Display this terminal state.	Displays in the form of "+CPAS : <n>". n=0: Available n=1: Unavailable n=2: Unclear n=3: Available and while incoming call receiving n=4: Available and communicating	AT+CPAS +CPAS:0 OK
AT+CPIN="PIN"/ AT+CPIN="PUK" , "PIN" [?]	Command to enter the PIN1 code or unblocking PIN code for UIM.	Enter the PIN1 code for "PIN", and enter unblocking PIN code for "PUK". Executing "AT+CPIN?" displays "+CPIN: <n>". n=READY: Authenticated n=SIM PIN: Waiting for entry n=SIM PUK: Waiting for unblocking PIN code entry n=ERROR: Locked	(+CPIN:SIM PIN status) AT+CPIN="1234" OK (+CPIN:SIM PUK status) AT+CPIN="12345678", "1234" OK
AT+CPWD=<fac>,<oldpwd>,<newpwd> [=?]	Change password of PIN1 code.	<fac> fac="SC" : Change PIN1 code of UIM <oldpwd><newpwd>means enter the current PIN code and new PIN code. Execute "AT+CPWD=?", then appears as"+CPWD:("SC",<pwdlength>". <pwdlength> displays maximum character number of PIN.	AT+CPWD="SC", "0000", "1111" OK

Command	Overview	Parameters/Description	Examples of Commands
AT+CR=<mode> [&F] [?] [=?]	Set if display service report.	<mode> 0 : Do not return report (default). 1 : Return report.	AT+CR=0 OK AT+CR? +CR:0 OK
AT+CREG=<n> [&F] [?] [=?]	Set if notify EPS network registration and make an inquiry.	<n>: Set if send unsolicited result code n=0 : Do not send unsolicited result code (default) n=1 : Send network registration status as unsolicited result code n=2 : Send network registration status and location information as unsolicited result code <stat> : Packet exchange network registration status n=0 : Outside area and not searching	AT+CREG=0 OK AT+CREG? +CREG:0,0 OK
AT+CSQ [=?]	Display the wireless quality of this terminal.	Execute "AT+CSQ", then appears as "+CSQ:<rssi>,<ber>". <rssi> rssi=0 : Under -113dBm rssi=1 : -111dBm rssi=2~30 : -109dBm~-53dBm rssi=31 : Over -51dBm rssi=99 : Unclear or not detected <ber> ber=0~7 : Bit Error Rate, RXQUAL ber=99 : Unclear or not detected	AT+CSQ +CSQ:31,7 OK

Command	Overview	Parameters/Description	Examples of Commands
AT+GCAP	Display the capability list of this terminal.	-	AT+GCAP +GCAP: +CGSM,+W OK
AT+GMI	Display the manufacturer of this terminal.	-	AT+GMI LG Electronics Inc OK
AT+GMM	Display the name of this terminal.	-	AT+GMM docomo L03F OK
AT+GMR	Display the S/W version of this terminal.	-	AT+GMR L03F-MDM9200- VXXX-XXX-XX- XXXX-DCM-JP OK
AT+IFC=<n>,<m> [&F] [?] [=?]	Set the local flow control method between the PC and this terminal.	n : DCE by DTE control n=0 : No flow control. n=1 : Perform XON/XOFF flow control. n=2 (default): Perform RS/CS (RTS/CTS) flow control. m : DTE by DCE control m=0: No flow control m=1: Perform XON/XOFF flow control. m=2(default) : Perform RS/CS (RTS/CTS) flow control	AT+IFC=2,2 OK AT+IFC=1,1 OK AT+IFC=0,0 OK

Command	Overview	Parameters/Description	Examples of Commands
AT+WS46=<n> [?] [=?]	Set the wireless network to be used by this terminal when dialing.	n=12 : 3GPP Systems *For AT+WS46? , the answer is only 25.	AT+WS46=12 OK AT+WS46? 25 OK
A/	Retry a command just before performing.	 is not needed after entering command.	A/ OK
ATA	Display NO CARRIER under offline command mode.	-	ATA NO CARRIER
ATD	Send packet.	Sending packet : ATD*99***<cid>#<cid>1~10 : + Display the APN that configured +CGDCONT	ATD*99# CONNECT
ATE<n> [&F]	Set whether to echo back the text sent from a PC.	n=0 : Not echo back. n=1 (default) : Echo back.	ATE0 OK ATE1 OK
ATH<n>	The line is disconnected.	Only n=0 (default) can be specified.	ATH OK

Command	Overview	Parameters/Description	Examples of Commands
ATI<n>	Display the recognition code.	n=0 : Display [NTT DOCOMO, INC.] n=1 : Display the name of this terminal (Same as +GMM). n=2 : Display this terminal version (same as +GMR). n=3 : Display OK. n=4 : Display the details of communication functions of this terminal.	ATI NTT DOCOMO, INC. OK ATI0 NTT DOCOMO, INC. OK ATI1 docomo L03F OK ATI2 L03F-MDM9200- VXXX-XXX-XX- XXXX-DCM-JP OK ATI3 OK ATI4 4 OK
ATS0=<n> [&F] [?]	Set the RING value while receiving automatically.	n=0 (default) : Cannot receive automatically. n=1 ~ 255 : Receive automatically by specified RING value.	ATS0=0 OK ATS0? 000 OK

Command	Overview	Parameters/Description	Examples of Commands
ATS3=<n> [&F] [?]	Set the return character (CR) to recognize the end of AT command text string.	Only n=13 (default) can be specified.	ATS3=13 OK
ATS4=<n> [&F] [?]	Set the line feed (LF) character. It is positioned next to the return character (CR) if displaying the result code in English characters.	Only n=10 (default) can be specified.	ATS4=10 OK
ATS5=<n> [&F] [?]	Set the back space (BS) character to delete the last character in the input buffer while AT commands are entered.	Only n=8 (default) can be specified.	ATS5=8 OK
ATS6=<n> [&F] [?]	Set pause duration (seconds) till dial.	This command can be set but is not functional.	ATS6=5 OK
ATS8=<n> [&F] [?]	Set pause duration (seconds) of comma dial.	This command can be set but is not functional.	ATS8=3 OK ATS8? 003 OK
ATS10=<n> [&F] [?]	Set delay duration of auto disconnection (1/10 seconds).	This command can be set but is not functional.	ATS10=1 OK ATS10? 001 OK
ATQ<n> [&F]	Set if display result code.	n=0 (default) : Display result code. n=1 : Not display result code.	ATQ0 OK
ATV<n> [&F]	Set the display method of the result code.	n=0 : Display in numeric characters. n=1 (default): Display in text.	ATV1 OK

Command	Overview	Parameters/Description	Examples of Commands
ATX<n> [&F]	Set if detect dial tone.	n=0 : No busy tone detected, no dial tone detected, no speed display n=1 : No busy tone detected, no dial tone detected, speed display detected n=2 : No busy tone detected, dial tone detected, speed display detected n=3 : Busy tone detected, no dial tone detected, speed display detected n=4 (default) : Busy tone detected, dial tone detected, speed display detected	ATX1 OK
ATZ	Reset the settings on this terminal with the nonvolatile memory contents. If performed during a communication, the line is disconnected.	-	ATZ OK

Supplementary Explanation of AT Commands

■ Command name : +CGDCONT

- Overview
Set APN when sending packet connection.
- Form
+CGDCONT=[<cid>[,<"PDP type">][,<"APN">]]
- Parameter descriptions
Set the destination (APN) when sending packets. See the following examples for command operations.
<cid>*¹ : 1 to 10
<PDP type>*² : IP
<APN>*³ : Optional
※1 <cid> is the number used to control the destination (APN) for the packet communication to be registered in this terminal. 1 to 10 can be registered.
The default value of <cid>=1 is "mopera.net". Set cid number from 2 to 10.
※2 <PDP type> is a protocol for packet communication.
The pre-installed <PDP type>=IP is set to <cid>=1 as default.
※3 <APN> is optional string that indicates each destination.
- Command examples
Command to register an APN with the name of abc (When PDP type is IP, cid is 2)
AT+CGDCONT=2,"IP","abc"
OK
- Operations without a parameter
AT+CGDCONT= : Clear all the settings of <cid>.
However, the setting of <cid>=1 is reset to the value when purchasing.
AT+CGDCONT? : Display the current settings.

■ Command name: +CGEQMIN=[Parameter]

- Overview
Register the threshold to accept the QoS (Quality of Service) sent from the network when packet communication is established.
LTE data communication is not supported.
- Format
+CGEQMIN=[<cid>[,<"Maximum bitrate UL">][,<"Maximum bitrate DL">]]
- Parameter description
<cid>*¹ : 1 to 10
<"Maximum bitrate UL">*² : None (default)
<"Maximum bitrate DL">*² : None (default)
※1 <cid> is a number used to manage the access point (APN) for the packet communication registered in this terminal.
※2 <"Maximum bitrate UL"> and <"Maximum bitrate DL"> indicate the minimum communication speed [kbps] of upload and download traffic respectively between this terminal and the base station. If these are set to None (default), all speeds are permissible. Be aware that a packet communication may not be established because any other speed than this is not permissible.
- Command examples
(1) Command to permit all speeds for both upload and download (When cid=2)
AT+CGEQMIN=2
OK
(2) Command to permit only 5,760kbps for upload and 7,232kbps for download (When cid=2)
AT+CGEQMIN=2,,5760,7232
OK
(3) Command to permit 5,760kbps for upload and all speeds for download (When cid=2)
AT+CGEQMIN=2,,5760
OK

(4) Command to permit all speeds for upload and only 7,232kbps for download (When cid=4)
AT+CGEQMIN=4,,,7232
OK

■ Command name: +CGEQREQ=[Parameter]

- Overview
Set the QoS (Quality of Service) requested to the network when packet communication is dialed.
- Format
+CGEQREQ=[<cid>[.,<Maximum bitrate UL>[.,<Maximum bitrate DL>]]]
- Parameter description
<cid>*¹ : 1 to 10
<Maximum bitrate UL>*² : None (default)
<Maximum bitrate DL>*² : None (default)
※1 <cid> is a number used to manage the access point (APN) for the packet communication registered in this terminal.
※2 <Maximum bitrate UL> and <Maximum bitrate DL> indicate the minimum communication speed [kbps] of upload and download traffic respectively between this terminal and the base station. If these are set to None (default), Qos of network is not required.
- Command example
Command to require 5,760kbps for upload and 7,232kbps for download (When cid=2)
AT+CGEQREQ=2,2,5760,7232
OK

Note

- This command, (+CGDCONT, +CGEQMIN, +CGEQREQ) is not reset by [F] and [Z], either.

Result Codes

■ List of result codes

Numeric display	Text display	Description
0	OK	Operation performed properly
1	CONNECT	Connected to other party
3	NO CARRIER	Line disconnected
4	ERROR	Unable to accept command
100	RESTRICTION	Network restriction display

Options and related devices

Combining this terminal with optional accessories supports a wide variety of uses from personal use to business use. Some merchandise are not available in some regions.

For details, contact a docomo Shop. For details about the optional devices, refer to the instruction manual for each device.





- Back Cover L30

Troubleshooting

First, check whether software is required to update. Update software if necessary. (Updating Software⇒P118) Contact General Inquiries specified by DOCOMO located in "Repairs" (Japanese only) at the last page of the manual if the symptom is not improved after confirming the item to check.

■ This terminal is not recognized

Symptom	Check
This terminal is not recognized	Insert the USB port firmly into this terminal.
	Verify the L-03F Communication Configuration Files (Drivers) for this terminal functioning properly.→P31, P41
	This terminal may not be recognized correctly when activating the PC with this terminal being connected, during restarting or after retrieving from the states of standby (sleeping)/stopping during packet communication. Remove this terminal from the PC and insert again after restarting the PC. Delete the driver of this terminal on device manager when "!" appears in this terminal device. Only install the driver again.
	The UIM will not be able to use if PIN1 unlock code is wrongly entered 10 times in a row. For further information, visit docomo Shop.

Symptom	Check
This terminal is not recognized	<p>■ If CD/DVD playback and written software is installed into a PC</p> <p>Depending on the CD/DVD playback or writing application installed in a PC, this terminal may not be recognized normally even if the terminal is connected while the application software residents* or is activated. Try the following methods in that case.</p> <p>■ To recognize after finishing the running application</p> <ol style="list-style-type: none">Remove this terminal from the PCFinish CD/DVD playback and the executants of written application softwareConnect this terminal to the PC <p>■ To recognize via  icon</p> <ul style="list-style-type: none">For Windows 7<ul style="list-style-type: none">[Start] ► Double click  icon of "Computer".For Windows Vista<ul style="list-style-type: none">[Start] ► Double click  icon of "Computer".For Windows XP<ul style="list-style-type: none">[start] ► Double click  icon of "My computer". <p>※Including the case in which its icon stays on the taskbar.</p>

■ Communication problems

Symptom	Check
Communications are not possible	Verify if signals are received in the service area.
	Check if you set the UIM setting to "Unlock PIN1". →P57 If it is set to "Lock PIN1", launch the L-03F Connection Manager, then enter PIN1 code. →P58
	Check the setting of this terminal and the APN registration.
	When connecting manually by L-03F is not available, open the property of dial-up connection and make sure that only "docomo LO3F Modem Driver" has check mark in "Connect using". (If the modem inside PC or other modems have check marks, packet connection may be incorrect.)
	Even if Auto connection setting is set to "ON", auto connection may not be available depending on the PC or network. In that case, remove this terminal and insert it into the PC again.
When using Internet by this terminal, make sure that wired/wireless LAN or other communication devices are disconnected.	

■ Problems with AT Commands

Symptom	Check
"ERROR" appears when AT command is entered	Verify if you entered a correct AT command.
	Check the properties of the terminal software to see whether a device other than this terminal is selected.
"OK" does not appear after an AT command is entered	Check the L-03F Communication Configuration Files (Drivers) have been installed and functioned properly.
	Verify if the commands start with "AT" or "at".

■ Zero installation fails

Symptom	Check
New hardware detection screen appears	If the L-03F setup screen does not appear, and the input of driver is required, cancel it temporarily. Remove this terminal from the USB port of PC and insert again.
	Do not start zero installation during OS activation. It may take several minutes depending on the PC. Make sure to start the installation after the PC runs normally.

■ Other problems

Symptom	Check
The terminal suddenly stopped working	Verify that the UIM is properly inserted to this terminal.→P15
	Your PC operating environments may have changed because a new peripheral or software was installed. Make a confirmation with your manufacturer of accessory or software.
This terminal is not detected if it is inserted into a USB port of PC after installing the L-03F Communication Configuration Files (Drivers)	Please confirm the following. <ul style="list-style-type: none">• Whether the PC or OS you are using is in the latest condition? (If required, apply revision program of OS provided from manufacturer.)• Whether this terminal recognizes normally when other USB devices are inserted into the USB port of PC?• Whether this terminal operates normally when being inserted into another PC?• Whether this terminal operates normally when PC is reset to its default? ※For inquiries related to OS or PC, contact Microsoft or PC manufactures.
	Internet connection speed decreased significantly
Internet connection speed decreased significantly	If this terminal is connected to a PC directly, use the supplied "USB extension cable (Sample)" to keep away from PC.
	Speed may turn slow in unsteady areas such as LTE/W-CDMA/HSDPA/HSUPA/GPRS service environment. Move it to another place and connect again.

Error Messages

Error Messages	Description
Out of service area	You are out of service area or available network.
Failed to connect. Do you want to try again?	A network error may occur if you are out of service area or available network area. Make network setting again.
Failed to reset L-03F.	This terminal failed in resetting. Check if this terminal is inserted correctly in PC and if it is recognized by PC.
Settings cannot be changed while connected. Please disconnect to change the settings.	You cannot customize setting during data communication. Set again after closing data communication.
The confirmed PIN1 code doesn't match the changed PIN1 code. Please input again.	Two of new PIN1 code are not identical each other. New PIN1 code you want to change is not matched to the PIN1 code you entered for verification purpose. Enter correct PIN1 code.
Please check whether the DOCOMO UIM card is inserted properly.	Make sure to insert UIM into this terminal before inserting to a PC.
L-03F is not recognized	Do not remove this terminal from the PC while using. If this terminal cannot be correctly detected, try to reboot the PC as a remedy.
Failed to input PIN1 code for three times. Please input PIN unlock code.	An incorrect PIN1 code was improperly entered 3 times in a row. Available functions will be limited. Enter unblocking PIN code to unlock.
Incorrect PIN1 code entered. Please try again. (Retry 0/3)	An incorrect PIN1 code has been entered. Enter the correct PIN1 code again.
PIN1 code is 4~8 characters.	Valid PIN1 code is 4- to 8-digit number.
Please lock PIN1 code.	To change the PIN1 code, PIN1 must be locked. Switch PIN1 unblocking to PIN1 blocking.
Incorrect PIN1 unlock code entered. Please try again. (Retry 0/10)	An incorrect unblocking PIN code was entered. Please enter the correct unblocking PIN code.
L-03F is locked because the user failed to input the correct PIN unlocking code 10 times. Please contact DOCOMO service center.	You are no longer able to use UIM that unblocking PIN code has been improperly entered 10 times in a row. Please contact docomo Shop.

Warranty and After-Sales Service

Warranty

- A written warranty is provided with every terminal. Make sure that you receive it. Store the warranty in a safe place after you read it and verified that it contains the "Shop name/date" you purchased the product. If the written warranty does not contain the necessary information, contact the Shop where you purchased the product. The warranty is valid for a period of one year from the date of purchase.
- This product and all accessories are subject to change, in part or whole, for the sake of improvement without prior notice.

After-Sales Service

If Problems Occur

- Before requesting service, read the "Troubleshooting" section in this manual. If the problem still persists, contact one of the numbers listed in "Repairs" (Japanese only) on the back of this manual.

For Inquiries Result or When Repair is Required

- Take this terminal to a service center designated by DOCOMO. Be sure to check the operating hours of the service center. You must present the warranty. Please note that depending on malfunctions, it may take more than a day to repair.

■ In the warranty period

- This terminal will be repaired at no charge subject to the conditions of the warranty.
- The warranty must be presented to receive warranty service. The subscriber will be charged for the repair of items not covered in the warranty or repairs of defects resulting from misuse, accident or neglect even during the warranty period.
- The subscriber is charged even during the warranty period for the repair of failures caused by the use of devices or consumable items that are not DOCOMO specified.

■ Repairs may not be possible in the following cases

- When DOCOMO Repairs judges that this terminal is exposed to water. (Ex: the sticker is reacted to water)
- Repair is not possible when corrosion due exposure to moisture, condensation or perspiration is detected in a moisture seal reaction or test, or if any of the internal boards are damaged or deformed.
- ※ Since these conditions are outside the scope of the warranty, any repairs, if at all possible, will be charged.

■ After expiration of the warranty

All repairs that are requested are charged.

■ Replacement parts

Basically, replacement parts (parts required to maintain product function) will be kept in stock for at least 4 years after termination of production. Please note that the product may not be repaired even during this period, depending on the malfunctioning parts due to a shortage of those parts. Depending on the nature of the required repairs, it may still be possible to repair your terminal even after this period. Contact "Repairs" (Japanese only) listed on the back of this manual.

Pay attention

- Do not modify this terminal or its accessories.
 - Fire, injury or damage may result.
 - If this terminal is modified (part replacement, modification, painting, etc.), it will be repaired only after the modified parts have been restored to the condition at the time of purchase. However, repair may be refused depending on the nature of modification.
Things like following cases will be regarded as modification of this terminal.
 - Using sticker to decorate this terminal
 - Exchanging the packing with those other than DOCOMO product
 - Repair of failures or damage caused by modification are charged even during the warranty period.
- Do not remove any inscription stickers attached to this terminal. The inscription stickers certify that this terminal satisfies specific technical standards. If stickers are removed intentionally or are reattached in such a way that confirmation of the sticker's contents is impossible, repair or servicing may be refused because confirmation of whether or not the device conforms to relevant technical standards cannot be made.



- Information of settings for each function may possibly be cleared (reset) due to the malfunction, repair or other treatment of this terminal.
- Take this terminal to the service center when the inner of this terminal is exposed to water or moisture. However, repairs may not be available for some conditions depending on this terminal.

Updating Software

Download the modification file of this terminal from download site on the Internet and then update the software. If software update is necessary, you will be informed at the NTT DOCOMO website with "お知らせ (Information)".

1 Connect to a PC

The following screen appears if the latest software to be downloaded.

- When Check latest SW setting (→P60) is set to "OFF"
 - Connect this terminal to the PC ▶ Click  on the title bar ▶ 

2 Click [Yes]

- Update software following the onscreen instructions from here. For details, refer to Software Update procedure on the NTT DOCOMO website.

Note

- Do not unplug this terminal with the computer during software update.
- Software update (downloading and rewriting) may take a while.
- If software update fails, all operations become unavailable. In this case, bring this terminal to a DOCOMO service center.

Main Specifications

■ Operating system

Windows XP Japanese/English version (Service Pack 3)
Windows Vista 32bit/64bit Japanese/English version
(Service Pack 2)
Windows 7 32bit/64bit Japanese/English version
(Service Pack 1)
Mac OS X 10.6.8 32bit/64bit Japanese/English version
Mac OS X 10.7.2 32bit/64bit Japanese/English version

■ Communication Speed

Up to 75Mbps for receiving data

Up to 25Mbps for sending data

- ※ Communication speed is theoretical value when sending and receiving data which does not show the actual ones. The actual communication speed depends on communication environment and network congestion.
- ※ Depending on the bandwidth of Xi area, the theoretical value is 100/100/75/37.5Mbps for receiving speed (bandwidth [20/15/10/5MHz]) and 50/37.5/25/12.5Mbps for sending speed (bandwidth [20/15/10/5MHz])
- ※ Refer to NTT DOCOMO website for detailed areas that support Xi.
- ※ Receiving data up to 14Mbps, sending data up to 5.7Mbps in FOMA HIGH-SPEED area out of Xi area.
- ※ Sending and receiving data speed may become up to 384kbps in the FOMA HIGH-SPEED area.
- ※ Sending and receiving data speed becomes up to 384kbps in FOMA area out of Xi area and FOMA HIGH-SPEED area.

■ Operating environments

Temperature : 5°C to 35°C

Humidity : 45% to 85%

■ Power source

Power voltage

DC5V (Supplied from PC)

Max Current consumption*

Max Current consumption while communicating

LTE: Approx. xxxmA or lower

3G: Approx. xxxmA or lower

GPRS: Approx. xxxmA or lower

Average Current consumption while communicating

LTE: Approx. xxxmA or lower

3G: Approx. xxxmA or lower

GPRS: Approx. xxxmA or lower

Average Current consumption while Standby:

LTE: Approx. xxxmA or lower

3G: Approx. xxxmA or lower

GPRS: Approx. xxxmA or lower

- ※ Depending on the usage, power consumption fluctuates.

■ Form factor

USB connection type

■ Dimensions

Height: Approx. xxmm

Width: Approx. xxmm

Depth: Approx. xxmm

■ Weight

Approx. xxg

■ JATE certification number

AD11-0386001

Export Administration Regulations

This product and its accessories are under coverage of the Export Administration Regulations of Japan ("Foreign Exchange and Foreign Trade Control Laws" and the related laws and regulations). When exporting this product and its accessories, take necessary procedures on your responsibility and expense. For details, contact Ministry of Economy, Trade and Industry.

Declaration of Conformity

The product "L-Q3F" is declared to conform with the essential requirements of European Union Directive 1999/5/EC Radio and Telecommunications Terminal Equipment Directive 3.1 (a), 3.1 (b) and 3.2.

This wireless portable device complies with the EU requirements for exposure to radio waves.

Your wireless portable device is a radio transceiver and receiver. It is designed not to exceed the SAR* (Specific Absorption Rate) limits** for exposure to radiofrequency (RF) energy by European Union Directives. The Max. SAR* value is 0.640W/kg (10 g) when it is worn on the body. To comply with the RF Exposure limits a distance of greater than 1.5 cm must be maintained from the user's body. While there may be differences between the SAR* levels of various wireless portable devices and at various positions, they all meet*** the EU requirements for RF exposure.

* The exposure standard for wireless portable devices employs a unit of measurement known as the Specific Absorption Rate, or SAR.

** The SAR limit recommended by the International Commission on Non-Ionizing Radiation Protection (ICNIRP) is 2W/kg averaged over 10g of tissue.

*** Tests for SAR have been conducted using standard operating positions with the transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the wireless portable device while operating can be well below the maximum value. This is because the wireless portable device is designed to operate at multiple power levels so as to use only the power required to reach the network.

In general, the closer you are to a base station antenna, the lower the power output.

European Union Directives Conformance Statement



Hereby, LG Electronics, Inc. declares that this product is in compliance with:

- The essential requirements and other relevant provisions of Directive 1999/5/EC
- All other relevant EU Directives



The above gives an example of a typical Product Approval Number.

FCC Regulations

Statement

This equipment has been tested and found to comply with the limits for 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 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:

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

Change or Modifications that are not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Class B Compliance

This device and its accessories comply with part 15 of FCC rules.

Operation is subject to the following two conditions:

- This device & its accessories may not cause harmful interference.
- This device & its accessories must accept any interference received, including interference that may cause undesired operation.

Normal Operation

This device has been tested in normal operating positions as defined in the Manual at a distance of 0.19 inches (0.5cm) from the user's body.

To comply with FCC RF exposure requirements, a minimum separation distance of 0.19 inches (0.5cm) must be maintained from the user's body.

Consumer Information on SAR (Specific Absorption Rate)

THIS DEVICE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless device 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. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations 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 devices employs a unit of measurement known as the Specific Absorption Rate, or SAR.

The SAR limit set by the FCC is 1.6W/kg.

- ※ Tests for SAR are conducted using standard operating positions specified by the FCC with the device transmitting at its highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a device is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations as required by the FCC for each model.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this device is on file with the FCC and can be found under the Display Gant section of <http://www.fcc.gov/oet/ea/fccid/> after searching on FCC ID ZNFO3F. Additional information about Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at <http://www.ctia.org/>.

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You can register a confirmation/change of contracts, or request information material at the DOCOMO online.

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

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Don't forget your terminal... or your manners!

When using this terminal, be considerate and do not disturb people around you.

◎The following cases, be certain to turn off your PC in which this terminal is inserted.

■ Where use is prohibited

There are some places which this terminal can not be used. Be sure to turn off your PC in which this terminal is inserted.

- ※ Persons with electronic medical equipment are in places other than the actual wards. Make sure you have the power switched off even if you are in a lobby or waiting room.

■ While driving

Using this terminal interferes with safe driving and may be dangerous.

■ When in crowded places such as packed trains, where you could be near a person with an implanted cardiac pacemaker or implanted defibrillator

The implanted cardiac pacemaker or implanted defibrillator operation can be adversely affected.

■ When in theaters, movie theaters, museums, and similar venues

If you use this terminal where you are supposed to be quiet, you may disturb those around you.



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We collect old phones, etc. regardless of brands and manufacturers. Bring them to your nearest docomo Shop.

- ※ Items to be collected: mobile phones, PHS, battery packs, chargers, desktop holders (regardless of brands and manufacturers)


General Inquiries <docomo Information Center>


(Business hours: 9:00 a.m. to 8:00 p.m.)


 **0120-005-250** (toll free)

- * Service available in: English, Portuguese, Chinese, Spanish, Korean.
- * Unavailable from part of IP phones.

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 From DOCOMO mobile phones
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 From land-line phones
(In Japanese only)

 (No prefix) **151** (toll free)

 **0120-800-000** (toll free)

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

● Please confirm the phone number before you dial.

● For Applications or Repairs and After-Sales Service, please contact the above-mentioned information center or the docomo shop etc. near you on the NTT DOCOMO website.

NTT DOCOMO website <http://www.nttdocomo.co.jp/english/>

Loss or theft of this 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.

From land-line phones

<Universal number>

International prefix number for
the universal number

-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 terminal or have it stolen, immediately take the steps necessary for suspending the use of this terminal.

● If your terminal is damaged, bring your 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
(In Japanese only)

 From land-line phones
(In Japanese only)

 (No prefix) **113** (toll free)

- * Unavailable from land-line phones, etc.

 **0120-800-000** (toll free)

- * Unavailable from part of IP phones.

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.

From land-line phones

<Universal number>

International prefix number for
the universal number

-8005931-8600*

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