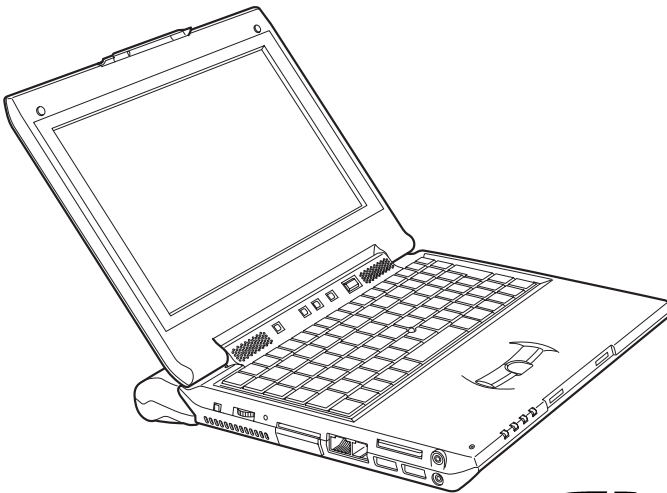


JVC



Mobile Mini Note PC

MP-XV841US



INSTRUCTIONS

For Customer Use:

Enter below the Model No. and Serial No. which is located on the bottom of the Mobile Mini Note PC. Retain this information for future reference.

Model No.

Serial No.

LET0248-006A

Dear Customer,

Thank you for purchasing this Mobile Mini Note PC. Before use, please read the safety information and precautions contained in the following pages to ensure safe use of this product.

Using This Instruction Manual**It is recommended that you...**

... read thoroughly the Safety Precautions and Safety Instructions that follow. They contain extremely important information regarding the safe use of this product.

You are recommended to carefully read the cautions on pages 4 through 6 before use.

SAFETY PRECAUTIONS

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

NOTES:

- The rating plate (serial number plate) and safety caution are on the bottom and/or the back of the main unit.
- The rating plate (serial number plate) of the AC Power Adapter is on its bottom.

CAUTIONS:

- Use the JVC BN-LL23 battery pack and, to recharge it, the provided multi-voltage AC Power Adapter.

When the equipment is installed in a cabinet or on a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm (3-15/16") or more on both sides, on top and at the rear).

Do not block the ventilation holes.

(If the ventilation holes are blocked by a newspaper, or cloth etc. the heat may not be able to get out.)

No naked flame sources, such as lighted candles, should be placed on the apparatus.

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

The apparatus shall not be exposed to dripping or splashing.

Do not use this equipment in a bathroom or places with water.

Also do not place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups etc.) on top of this unit.

(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

This product has a fluorescent lamp that contains a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations.

For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance:

<<http://www.eiae.org>>

When using the AC Power Adapter in areas other than the USA

- The provided AC Power Adapter features automatic voltage selection in the AC range from 110 V to 240 V.

When using the wireless LAN

WARNING

Please heed the warning below.

- Do not turn on the PC's power in trains, aircraft, hospitals or other places where the use of wireless LANs is restricted or prohibited. Use in such places may have an adverse effect on the electronic devices or medical equipment and cause accidents. At present, the policy of airline companies is to prohibit the use of electronic devices in aircraft at certain stages of a flight (take-off and landing). This PC is classified as an "electronic device." For further details, contact the airline companies.

Radio waves emitted from wireless LANs

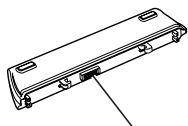
WARNING

Please heed the warning below.

- Do not use the wireless LAN in trains full of passengers and other crowded locations. Wireless LANs emit radio waves which can adversely affect pacemakers and other medical devices.
- Do not use the wireless LAN if you are bringing this PC on board an aircraft or into a hospital. Wireless LANs emit radio waves which may adversely affect measuring instruments and medical equipment.
- Stop using the wireless LAN in this PC if other equipment is being adversely affected by the wireless LAN. Wireless LANs emit radio waves which may adversely affect other equipment and cause accidents triggered by equipment malfunctioning.

Battery Packs

The supplied battery pack is a lithium-ion battery. Before using the supplied battery pack or an optional battery pack, be sure to read the following cautions:



Terminals

1. To avoid hazards . . .

- do not burn.
- do not short-circuit the terminals.
- do not modify or disassemble.
- do not expose the battery to temperatures exceeding 60°C (140°F), as this may cause the battery to overheat, explode or catch fire.
- use only specified chargers.

2. To prevent damage and prolong service life . . .

- do not subject to unnecessary shock.
- charge in an environment where temperatures are within the tolerances shown in the chart below. This is a chemical reaction type battery—cooler temperatures impede chemical reaction, while warmer temperatures can prevent complete charging.
- store in a cool, dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.
- fully charge and then fully discharge the battery every 6 months when storing the battery pack over a long period of time.
- remove from charger or power unit when not in use, as some machines use current even when switched off.

NOTES:

- *It is normal for the battery pack to be warm after charging, or after use.*

Temperature Range Specifications

Charging	10°C to 35°C (50°F to 95°F)
Operation	5°C to 35°C (41°F to 95°F)
Storage	-20°C to 50°C (-4°F to 122°F)

- *Recharging time is based on room temperature of 20°C (68°F).*
- *The lower the temperature, the longer recharging takes.*

LCD Screen

1. To prevent damage to the LCD screen,

DO NOT...

- push it strongly or apply any shocks.
- place a thing on the LCD screen.

2. To prolong service life...

- avoid rubbing it with coarse cloth.

3. Be aware of the following phenomena for LCD screen use.

These are not malfunctions:

- While using the Mobile Mini Note PC, the surface around the LCD screen and/or the back of the LCD screen may heat up.
- If you leave power on for a long time, the surface around the LCD screen becomes hot.

Main Unit

1. For safety, DO NOT...

- open the Mobile Mini Note PC's chassis.
- disassemble or modify the unit.
- short-circuit the terminals of the battery pack. Keep it away from metallic objects when not in use.
- allow inflammables, water or metallic objects to enter the unit.
- remove the battery pack or disconnect the power supply while the power is on.
- leave the battery pack attached when the Mobile Mini Note PC is not in use.

2. Avoid using the unit...

- in places subject to excessive humidity or dust.
- in places subject to soot or steam such as near a cooking stove.
- in places subject to excessive shock or vibration.
- near a television set.
- near appliances generating strong magnetic or electric fields (speakers, broadcasting antennas, etc.).
- in places subject to extremely high (over 35°C or 95°F) or extremely low (under 5°C or 41°F) temperatures.

3. DO NOT leave the unit...

- in places of over 50°C (122°F).
- in places where humidity is extremely low (below 35%) or extremely high (above 80%).
- in direct sunlight.
- in a closed car in summer.
- near a heater.

4. To protect the unit, DO NOT...

- allow it to become wet.
- drop the unit or strike it against hard objects.
- subject it to shock or excessive vibration during transportation.
- carry it by holding the LCD screen.
- swing it excessively when using the hand strap or the grip.
- swing the soft case excessively when the Mobile Mini Note PC is inside it.

How To Handle CD-ROMs

- Take care not to soil or scratch the mirror surface (opposite to the printed surface). Do not write anything or put a sticker on either the front or back surface. If the CD-ROM gets dirty, gently wipe it with a soft cloth outward from the center hole using a circular motion.
- Do not use conventional disc cleaners or cleaning spray.
- Do not bend the CD-ROM or touch its mirror surface.
- Do not store your CD-ROM in a dusty, hot or humid environment. Keep it away from direct sunlight.

About moisture condensation...

- You have observed that pouring a cold liquid into a glass will cause drops of water to form on the glass' outer surface. This same phenomenon occurs on the HDD disk and/or the DVD pick-up Lense when it is moved from a cool place to a warm place, after heating a cold room, under extremely humid conditions or in a place directly subjected to the cool air from an air conditioner.
- Moisture on the HDD disk and/or the DVD pick-up Lense can cause severe damage, and can lead to internal damage to the Mobile Mini Note PC itself.

Serious malfunctioning

If malfunctioning occurs, stop using the unit immediately and consult your local JVC dealer.

The Mobile Mini Note PC is a microcomputer-controlled device. External noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such cases, first disconnect its power supply unit (battery pack, AC Power Adapter, etc.) and wait a few minutes and then re-connect it and proceed as usual from the beginning.

Declaration of Conformity

Model Number : MP-XV841US
Trade Name : JVC
Responsible party : JVC AMERICAS CORP.
Address : 1700 Valley Road Wayne, N. J. 07470
Telephone Number : 973-317-5000

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Change or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment. 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 to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 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.

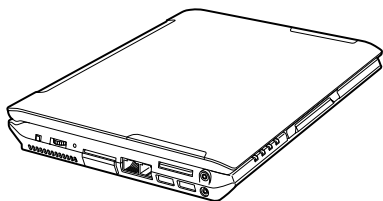
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CHECKING INVENTORY

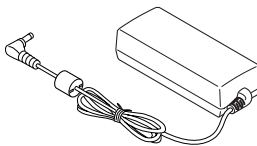
Before using your Mobile Mini Note PC (hereinafter Mobile PC), make sure that all of the following system components have been included in the container. If you have found any shortage or problem, contact the sales shop.

* The illustrations provided in these instructions may differ in part from the actual products.

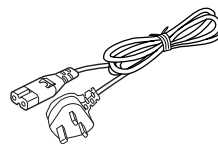
- Mobile Mini Note PC



- AC power adapter



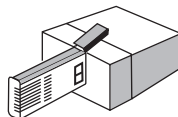
- Dedicated AC cable



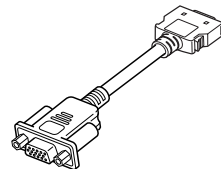
- Modem cable (1.8 meters long)



- Telephone adapter

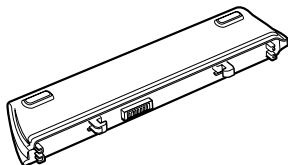


- External display cable

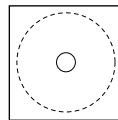


- Lithium-ion battery pack

- BN-LL23E



- Three Application CD-ROMs



- Instruction manual (this book)



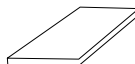
- Two stick caps



- Warranty card



- Start Here manual



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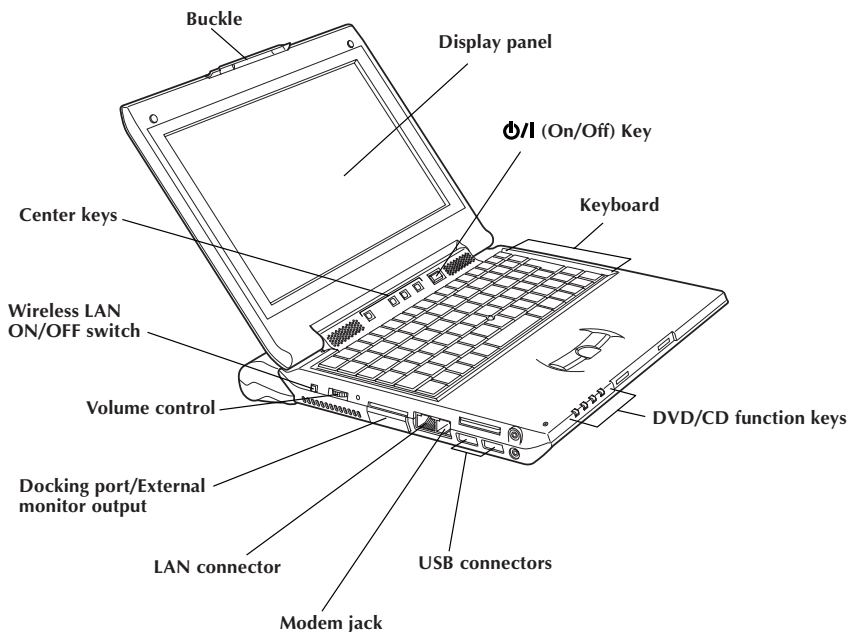
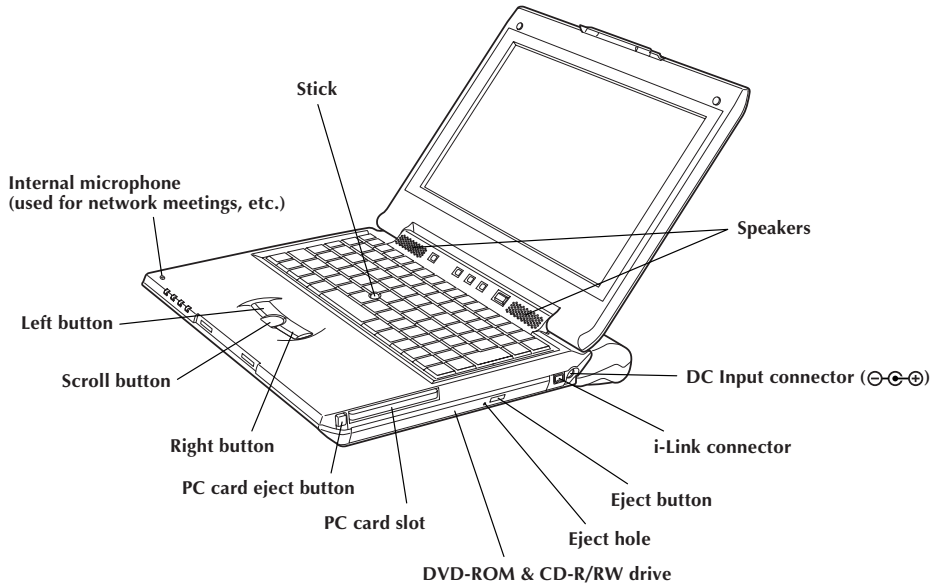
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- (3) Even if any part of the Agreement is held invalid by or in conflict with any law having jurisdiction over this Agreement, the remaining provisions will remain in full force and effect.
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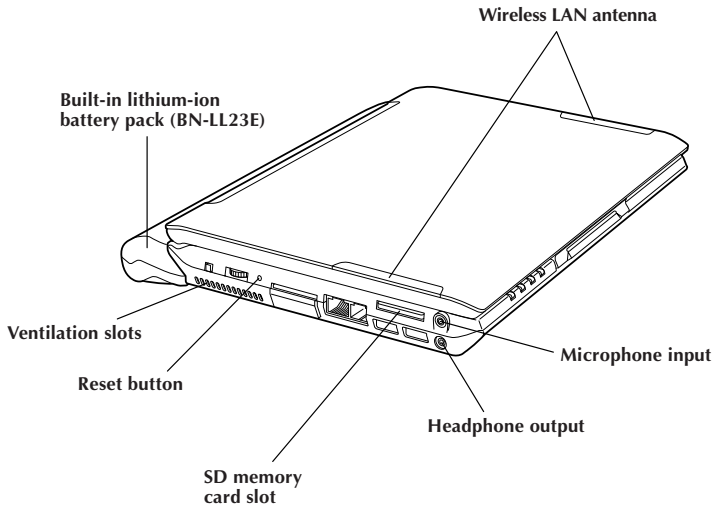
Table of Contents

SAFETY PRECAUTIONS	2	OPERATIONS	
SOME DO'S AND DON'TS ON THE SAFE		Using the Pointing Device	54
USE OF EQUIPMENT	3	Using Keyboard	56
When using the wireless LAN	5	Using the center keys	58
Radio waves emitted from		Using the DVD/CD function keys	59
wireless LANs	5	HARDWARE	
CAUTIONS	6	Using the DVD-ROM & CD-R/RW drive	62
CHECKING INVENTORY	7	Using the SD Memory Card Slot	64
JVC Software License Agreement	8	Using an External Monitor	65
END-USER LICENSE AGREEMENT	10	Connecting to a Network	66
PARTS AND COMPONENT NAMES	13	Network Connections Using a Wireless LAN	70
SETTING UP		Checking the Battery Level	79
SETTING UP	16	Power-saving Mode	80
TURN-ON	19	Increasing the (Optional) Memory Capacity	82
Turning Ⓞ/Ⓜ (On/Off) Key On	19	Using the UltraPOST self-diagnosis tool	86
Initial Setup of Microsoft Windows	20	PC RECOVERY (REPEATED PC SETUP)	
Turn-Off	22	Setting Up Your PC Again	88
JVC ORIGINAL SOFTWARE AND		System Recovery Procedure	89
SYSTEM APPLICATIONS		TROUBLESHOOTING	
JVC ORIGINAL SOFTWARE	24	Q&A	92
Setup of JVC Original Software	24	Power	92
CC Converter	26	Startup and Operation of Windows	93
PD-TS decoder	28	Display	95
Easy Network Changer	29	Using the Internet	96
STANDARD APPLICATION	31	Wireless LAN	99
To Set Up the Standard Applications		Battery	100
Again	33	DVD-ROM & CD-R/RW drive	101
To Uninstall a Standard Application	33	SD memory cards	104
NAVIGATE IN THE INTERNET WORLD!		Miscellaneous	105
TO CONNECT TO THE INTERNET	36	APPENDIX	
Contracting with the Internet		List of Support Centers	108
Service Provider	36	Trademark Notice	109
Connection of Telephone Line and		Maintenance	110
Modem Setup	37	How to Disposal	111
The Internet Connection Setup	39	Specification	112
Connecting to the Internet	44	Wireless LAN Specifications	113
Disconnection from the Internet	45	Options (separately available)	114
Accessing a Web Page	46		
E-MAILING	47		
Setting Up E-Mail Software	47		
Sending and Receiving E-mails	50		

PARTS AND COMPONENT NAMES

Your Mobile PC has the following parts and components.





1

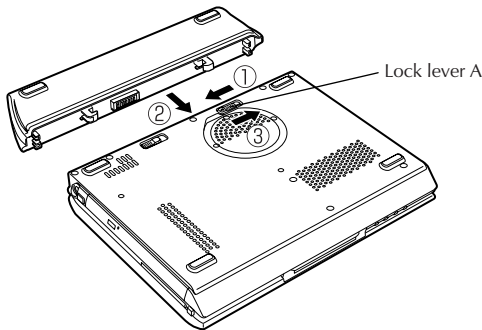
SETTING UP

SETTING UP

When you first use your-Mobile PC, always plug the AC power cord into the DC Input connector. First, install the lithium-ion battery pack in the PC by following the steps below. Proceed with the setup while the battery pack is charging. To avoid data loss due to power failure or any other cause, check the points for battery recharging in Page 18.

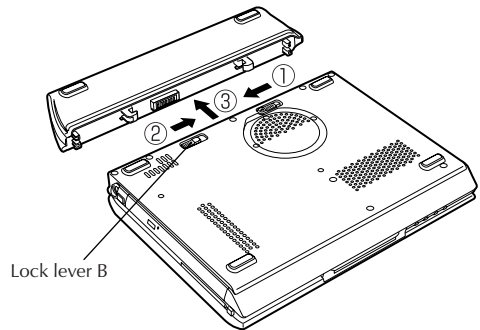
1. Mounting/Dismounting the Lithium-Ion Battery Pack

• Mounting Battery Pack



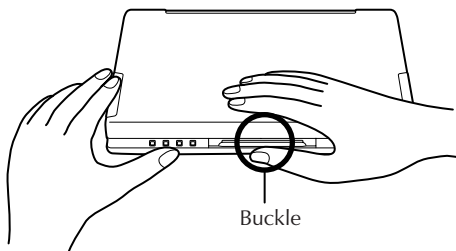
- ① Slide lock lever A in the direction of the arrow (→).
- ② Mount and lock the battery pack until it clicks.
- ③ Slide lock lever A in the direction of the arrow (←).

• Dismounting Battery Pack

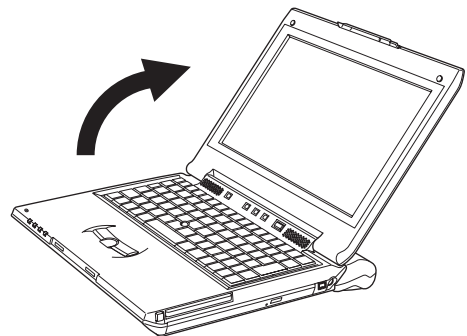


- ① Slide lock lever A in the direction of the arrow (→).
- ② Slide and hold lock lever B in the direction of the arrow (→), and pull out and dismount the battery pack in direction ③ as shown.

2. Open the display panel



- ① Slightly pull up the buckle of the Note PC, and the display panel will be unlocked.

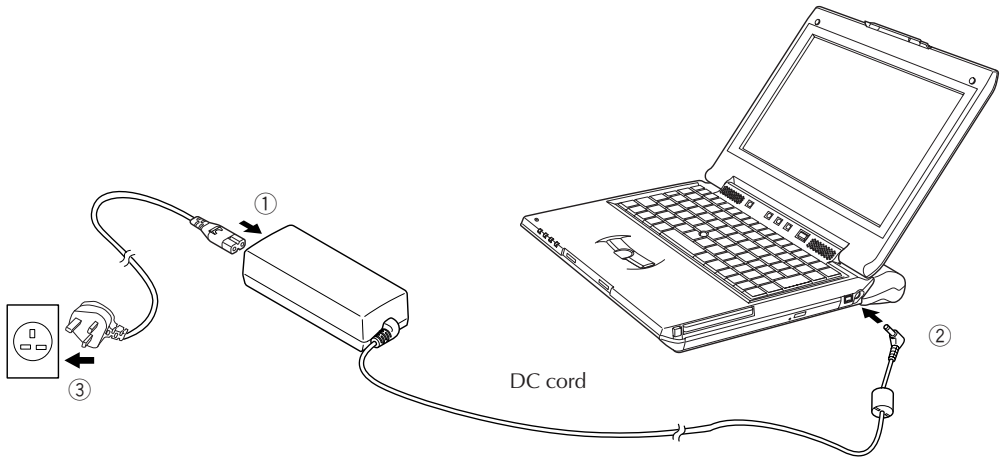


- ② Carefully open the display panel to the desired angle. You can open the display panel to 180 degrees.

3. Recharge the battery pack by plugging the AC cord into DC Input connector

When recharging the battery pack:


- ① Plug the AC power cord into the AC adapter.
- ② Plug the DC cord of the adapter into the DC Input connector (⊖ ⊕) of the Mobile PC.
- ③ Plug the AC cord of the AC adapter into the power receptacle.

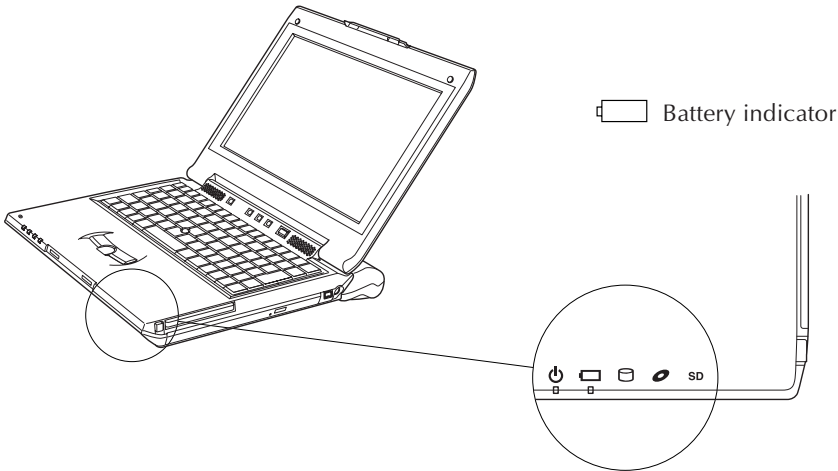



4. Make sure that the battery pack is fully recharged

To avoid an interruption of your operation due to power failure, check the battery voltage when you start to use your PC in the field. See “Checking the Battery Level” (see Page 79) to check the battery voltage level.

• Make sure that the battery pack is fully recharged

When you are using the AC adapter and when the battery indicator () lights in green, the battery pack is fully (100%) recharged. When it lights in orange, the battery pack is being recharged.



If you have unplugged the DC cable of the AC adapter and if you drive your PC with the lithium-ion battery pack, the battery indicator () goes out.

Approximate recharging times:

	Recharging time (When the PC's power is off)	Recharging time (When the PC's power is on)
Lithium-ion battery pack (BN-LL23E)	Approximately 180 minutes	Approximately 290 minutes

Cautions

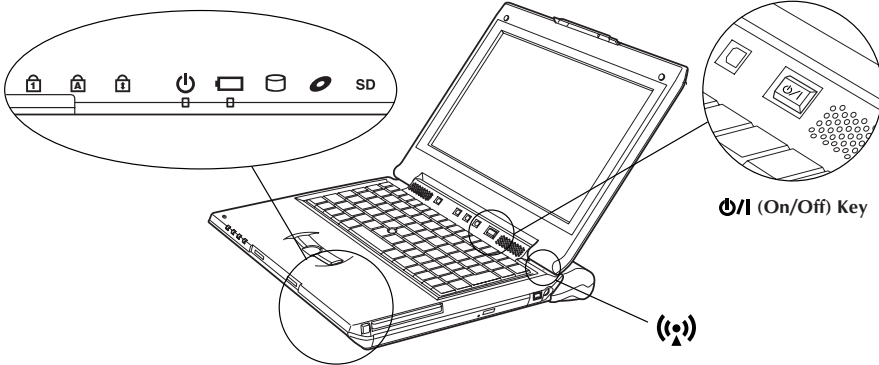
- If the battery pack discharges quickly even after recharging, the battery service life has expired. Replace it with a new one. (The built-in CMOS backup cells are service parts.)
- The standard recharging times listed above are typical values in an ambient temperature of 20°C to 25°C (68°F to 77°F).

TURN-ON

Turning **⏻** (On/Off) Key On

Press the **⏻** (On/Off) key.

The PC will turn on and the Windows logo will appear.



Caution



- Turn Off the PC **⏻** (On/Off) key in areas such as hospitals where use of the PC is prohibited. Otherwise, your PC may influence the electronic and medical equipment and may cause a serious problem.
At present, most airlines prohibit the use of electronic devices in an airplane according to the flight condition (taking off and landing) of the aircraft and others. This machine is also grouped in these electronic devices. Consult each airline for details.

• Status indicators

	Num Lock lamp	When the Num Lock key is active	Lights up green.
	Caps Lock lamp	When the Caps Lock key is active	Lights up green.
	Scroll Lock lamp	When the Scroll Lock key is active	Lights up green.
	Stand By lamp	When the PC is turned on	Lights up green.
	DVD-ROM & CD-R/W access lamp	When the disc is accessed	Lights up green.
SD	SD access lamp	When the SD card is accessed	Lights up green.
	HDD access lamp	When the HDD is accessed	Lights up green.
	Wireless LAN access lamp	When wireless LAN is accessed	Lights up orange.

Caution

Disconnect all peripheral devices (such as a telephone or printer) before pressing the **⏻** (On/Off) key for the first time. Otherwise, your PC setup may fail.

Initial Setup of Microsoft Windows

When using your PC for first time, you must prepare the PC to use Microsoft Windows. Once you have finished the initial Windows setup, you can use the software and various PC functions. Use the following procedure to initially set up Microsoft Windows. For pointing device and keyboard operations, see Pages 54 to 57.

1. When the “Welcome to Microsoft Windows” screen appears, click [Next] at the right lower corner of the screen.

The “The End User License Agreement” screen will appear.

2. Read the “The End User License Agreement” information and click “Yes, I accept” option if you accept the agreement. Then, click [Next].

The “What’s your computer’s name?” screen will appear.

Note

If you select the “No, I don’t accept” option, the initial Windows setup is canceled. You cannot use the Microsoft Windows or the PC software.

3. Rename your computer and click [Next].

The “An Internet connection could not be chosen” or “How will this computer connect to the Internet?” screen appears.

Tips

A unique computer name is required so that your PC is distinguished from other computers if you connect your PC to the network. Although the PC is named automatically and shown in the “Computer name” column, you can change it to a name which is easy to remember.

4. Click [Next].

The “Ready to register with Microsoft?” screen appears.

5. Click “No, not at this time” option, and click [Next].

The “Who will use this computer?” screen may appear.

Tips

If you select “Yes, I’d like to register with Microsoft now” option, you can start online user registration. For Internet connection setup, see Page 36 “TO CONNECT TO THE INTERNET” section.

6. Enter the user name and click [Next].

The “Thank you!” screen will appear.

Tips

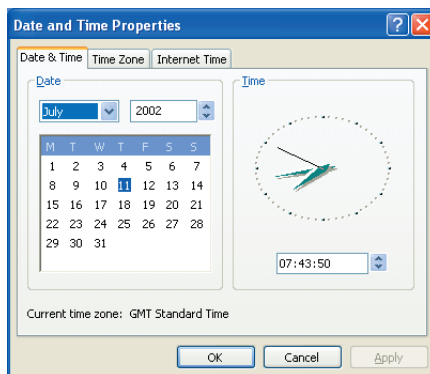
The name you have entered is shown on the “welcome” screen that appears when you turn the PC power switch on after initial Windows setup. To start up Microsoft Windows, click the user name shown on the screen.

7. Click [Finish].

The initial Windows setup has completed.

Cautions

- No guarantees are made for operation if an operating system other than the one already installed in your PC is installed.
- When a week has passed after initial startup of the Microsoft Windows, a confirmation screen asking for the deletion of desktop icons appears. This is the Desktop Cleanup program that can delete icons that you have not used for a certain period from the desktop screen. The software is not deleted even if you have cleared its icon from the desktop screen.
- Use the following procedure to change the Windows date and time.
 1. Double-click the time display in the task tray at the lower right of the desktop. The “Date and Time Properties” dialog box appears.



2. Click the “Time Zone” tab and select your time zone from the list box.
3. Click the “Date & Time” tab and enter the correct date and time.
4. Click “OK” to save your change.

Turn-Off

Cautions

- Check the battery level before turning off the power to ensure that the charge caution screen will not appear while you are using the PC on the move, interrupting your work. To check the battery level, refer to "Checking the Battery Level" on page 79.
- Always use this procedure to turn off the PC. Otherwise, your PC may fail.

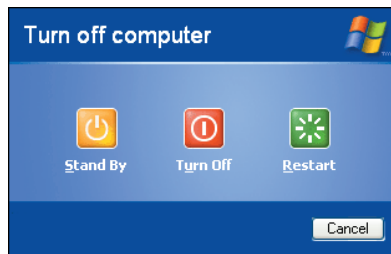
1. Click [start].



The "start" menu will appear.

2. Click [Turn Off computer].

The "Turn off computer" screen will appear.

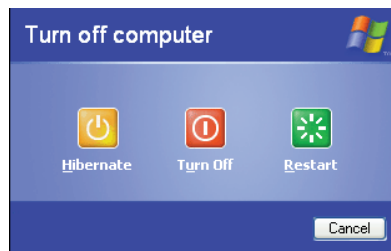
3. Click [Turn Off].



The PC will be turned off automatically, and  (Stand By) lamp will go out. Before closing the LCD panel, make sure that  (Stand By) lamp has turned off.

Tips

To restart Windows without turning off the power, click [Restart] on the "Turn off computer" screen. Alternatively, press the [Shift] button on the keyboard while "Turn off computer" screen is displayed. The screen below will appear and the PC can be put into [Hibernate].



For details on the [Stand By] and [Hibernate] modes, refer to pages 80 and 81.

2

JVC ORIGINAL SOFTWARE AND SYSTEM APPLICATIONS

JVC ORIGINAL SOFTWARE

To use the JVC original software, you must set it up in the “Setup of JVC Original Software” given below. You can setup the following software program.

Setup software

- CC converter (See Page 26.)

Tips

- When connecting this PC to a digital video camera (DVC) made by JVC, the USB drivers must be set up from the CD-ROM that is provided with the DVC.
- For DVC connection and operations, see its instruction manual.

Setup of JVC Original Software

Before starting the software setup, quit and save the currently active application if any. Otherwise, your working data will be lost.

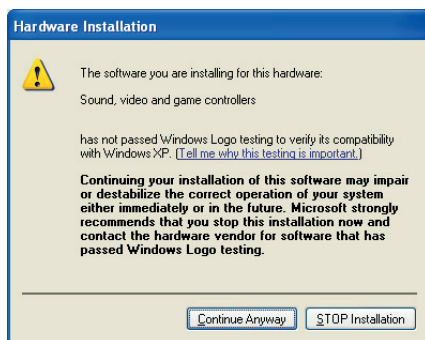
1. Click [start] and click [Run first] at the right lower end of the Menu.

The “Preparing to Install...” screen will appear, and the software setup will start up.

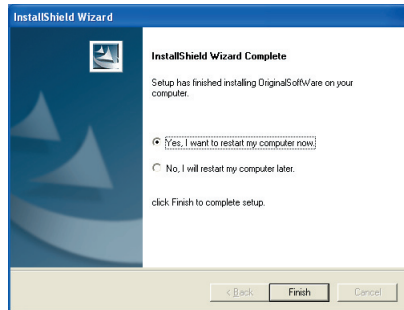
2. Read the License Agreement when displayed.

If you accept the Agreement, click [Yes]

3. During setup, the “Sound, video and game controllers has not passed Windows Logo testing to verify its compatibility with Windows XP.” message may be displayed. Ignore it as it does not affect the system operation. Click [Continue Anyway] to continue software setup.



4. When the software has been set up, a prompt for PC restarting appears. Click [Finish] to restart the PC.



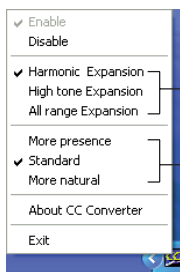
CC Converter

This is a data-band expansion system JVC has developed for audio applications. It reproduces the timbre of the original sound from high-quality and compressed music data as well.

The CC converter operates as a system filter so that it takes effect regardless of the playback application.

To make the effect valid or invalid or to change the effect level:

1. Open a shortcut of  (CC Converter) icon in the task tray (by clicking the right mouse button).



About the expansion effect modes
(see next page for details)

About the intensity
(see next page for details)

2. When the menu above appears, click on the desired option.

Cautions

- If you have disabled the effect, the CC Converter icon is shown in monochrome color in the task tray.
- The actual sound playback may slightly be delayed due to processing of playback data.

Explanation of menu options

- **Enable**
Makes the CC converter processing valid.
- **Disable**
Makes the CC converter processing invalid.

The following menu options are effective only when you have checked the “Enable” option.

About the expansion effect modes

One of the following three effect modes can be selected.

Each has its own special characteristics as described below depending on the frequency band pattern which is to be expanded.

- **Harmonic Expansion**

Expanding the harmonic components contained in music accentuates the lingering tones and gives the sound an added brilliance. This mode is particularly suited to vocals and music made by acoustic instruments. It can have an effect on almost all genres of music, and it is the mode which is normally used.

- **High tone Expansion**

Expanding the high-tone components enhances the feeling of the sound’s resolution. It is particularly suited to hard-sounding types of music made by electronic instruments. With rock or pop music, you can enjoy a more lively sound.

- **All range Expansion**

This provides an expansion effect over all the range contained in the music. Since there is no focus on a particular point to be expanded, the CC converter can have an effect with all types of music.

About the intensity

One of three menu options can be selected as the intensity level of the effect to be exerted by the CC converter. It is recommended that you select the level of intensity that matches the size of the speakers that will reproduce the sound, the performance of the headphones and type of sound data (compressed or non-compressed).

- **More presence**

The CC converter functions to have the maximum effect.

The “More presence” level is suited to playing back compressed music data through the PC’s built-in speakers or other small-sized speakers. With some types of music, the noise may be accentuated in which case the “Standard” or “More natural” option should be selected.

- **Standard**

With the “Standard” level, the CC converter exerts an effect which is suited to listening to compressed music data through headphones or mini audio components. This is the setting which is normally used.

- **More natural**

The CC converter functions to reproduce the original sound with the highest possible fidelity. The “More natural” level is suited to listening to non-compressed high-quality data through large-sized speakers.

Set to this mode if the level of noise is so high that it interferes with your listening pleasure while using headphones

- **About CC converter**

Shows the CC converter version and other information.

Click [OK] to close the displayed subwindow.

Continue to next page

- **Exit**

Quits the CC converter. The CC converter status you have set at this point is held. If you wish to restart the CC converter, you can start up the program from the Start menu.

* To change the CC converter setting and save the new status, you must click [Exit]. To restart the CC converter, click [Start] → [All Programs] → [CC Converter] → [CC Converter].

Tips

- Do not change the sound playback device when you are playing back the sound data (such as an audio file).
- If you have changed the sound playback device, wait five (5) or more seconds before playing back the data.
- The CC converter can process two-channel PCM data only. There are cases where the DVD sound is to be output to an external sound source or where multi-channel data or data in a non-PCM format is to be sent by a sound device: in these cases, the CC converter cannot process the data.
- If you play back data having a high noise level, the noise may be emphasized.
- Users other than the computer administrator (even if they have the Administrator's authority) may not change the CC converter setup.

PD-TS decoder

This decoder is designed to capture, using a separate personal computer (Pentium 4, 2 GHz or faster recommended), the data which has been shot in the GR-PD1 HI-RES. mode or PS50 mode and play the data using the Windows Media Player 9 of this unit (MP-XV841GB) in a simplified format, and it is pre-installed.

- To uninstall the decoder, select [Add/Remove Programs] and delete it.
- The installer is included on the application CD-ROM so use the provided CD-ROM if you need to re-install the decoder.


Easy Network Changer

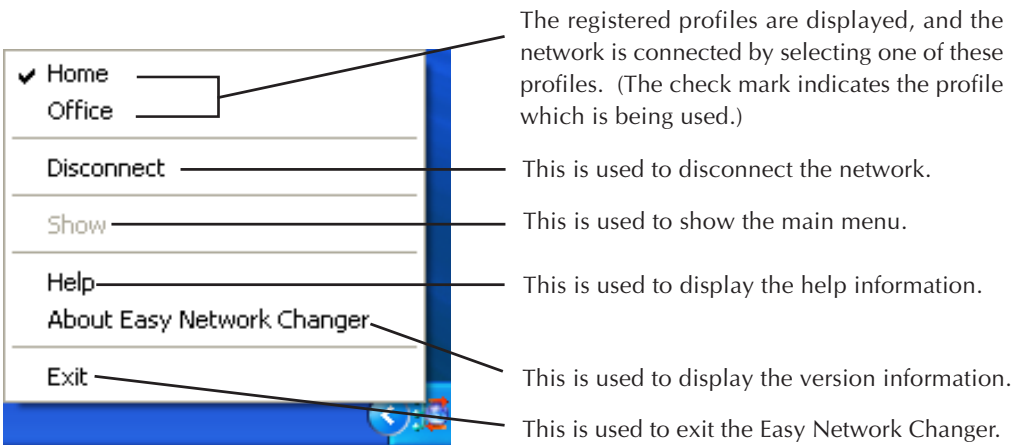
The Easy Network Changer is a network setting utility which enables network settings to be changed easily.

This utility makes it possible to register a multiple number of profiles that define the network settings for use at home, in the office or other connection locations. When InterLink has been moved to a different network environment, it allows easy connection to a network by selecting the corresponding profile.

To start the utility

Double-click the Easy Network Changer  icon on the desktop.

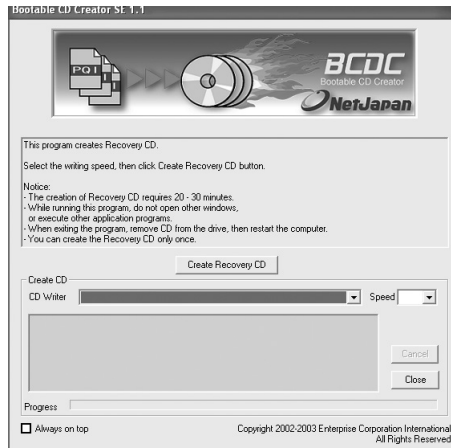
The profile management screen now appears. To register a profile, click [New] and follow the instructions given by the Wizard. Once a profile has been registered, it can be selected from the profile management screen and the network settings can be changed. An easy way to change the network is to click the  icon on the task tray and select the profile from the menu which is then displayed.



For details on how to use the utility, refer to the utility's help information.

You can create the removable recovery CDs using Bootable CD Creator (BCDC).

1. Click [Start] → [All Programs] → [BCDC SE] to start BCDC.
2. Select the writing speed, and press the “Create Recovery Disc” button.
3. The “Once you have successfully created Restore Disc, Create Restore Disc function is no longer available. Continue?” message now appears. Select “Yes.”
4. The number of CD-R discs required is displayed. When the CD-R discs have been readied, click “OK.”
5. When the “Please insert a blank disc in the drive.” message appears, insert one of the CD-R discs into the drive, and press OK.
(The screen on which the blank CD automatic execution is selected may appear. If it does, cancel it.)
6. Data writing starts, and when the “Please insert a blank disc in the drive.” message appears from then on, replace the disk.
7. When “Disk creation now completed.” message appears, click “OK.”



Tip

When a recovery CD which was created by a bootable CD creator is used to initiate recovery, the recovery area inside the hard drive will be erased.

STANDARD APPLICATION

Your Mobile PC has the following standard applications. Open the Help menu of each application to check the application usage. If you have any question, contact the nearest support center listed on Page 108.

● **Adobe Reader 6.0**

Can display and print out a PDF file.

Using the Adobe Reader, you can display and print out a PDF format file.

● **Norton AntiVirus 2004**

The software to prevent virus infection from the Internet.

This is a highly reliable antivirus program. It can automatically restore your system from virus infection without interrupting your current works. This program prevents the spread of viruses as it checks for virus infection during e-mail reception and transmission. Also, it can prevent the script-based virus infection even if you have not yet updated it to the latest antivirus definition.

Cautions

- At the third startup after the Windows initial setup, a Norton AntiVirus Information Wizard screen appears. Follow the on-screen instructions to set up this application program.
- You can update the antivirus definition file of this application within 90 days.

● **RealOne Player**

Can play back a video file.

The RealOne Player can play back some video files not supported by the Windows Media Player (included in the Windows XP OS).

● **PINNACLE STUDIO 9 SE**

The video editing software for the broadband age.

This software makes it possible to capture moving pictures or still pictures from a digital video camera or digital camera via IEEE 1394 I/F (i.LINK), add various video effects and output them to a digital video camera or create movies in a variety of formats.

The software comes with authoring and writing functions for DVDs, VCDs and SVCDs so that finished movies can be viewed on a home-use DVD player, for instance.

Note:

The DVD writing function cannot be used with the PC's internal DVD-ROM & CD-R/RW drive.

- **InterVideo WinDVD 5 for JVC**

WinDVD 5 with Dolby Virtual Speaker and Dolby Headphone is a software DVD player which is extremely easy to use. It combines all the advantages of a regular DVD player found in the home with a number of advanced functions available only with software DVD players. Audio CDs and video CDs can be played using WinDVD 5.

Caution

DVD-Video play may become unstable immediately after the WinDVD 5's settings have been changed.

- **UltraPost**

This self-diagnosis tool is incorporated inside the BIOS. It enables the self-diagnosis of the hardware without involving the use of any media.

Use it at times when the operations need to be checked such as when memory is added or trouble is suspected.

For details, refer to "Using the UltraPOST self-diagnosis tool" on page 86.

To Set Up the Standard Applications Again

You can set up the standard applications using the Application CD-ROM. (The optional CD-ROM drive is required.)

If you have erroneously deleted any of the standard applications, you can reinstall it from the Application CD-ROM. For details, see the “readme.txt” file in the Application CD-ROM.

Warning



- Use the Application CD-ROMs only on this PC. Otherwise, your ears or speaker system may be damaged due to loud noise.

Tips

With some applications, you will need to input the serial number (S/N) on the CD-ROM when the application is to be set up again.

To Uninstall a Standard Application

Use the following procedure to uninstall a standard application program.

1. Click the [start] button, then [Control Panel].
2. Click the [Add or Remove Programs] icon.
The programs currently installed are listed.
3. Click an application program you want to uninstall. Click the [Change/Remove] button.
4. When you see a “Are you sure you want to remove ...?” message, click [Yes].
5. The uninstaller will remove the selected application program.

MEMO

A series of horizontal dashed lines for writing.



NAVIGATE IN THE INTERNET WORLD!

TO CONNECT TO THE INTERNET

You must contract with an Internet service provider. Also, you need to have a telephone line to be connected to the service provider.

Contracting with the Internet Service Provider

An Internet service provider (an enterprise or an organization that provides the Internet connection and related services) is generally called a “provider.”

- **Contract with the provider**

Get the information about the sign-up to the provider, connection fee, service contents and other information from an Internet magazine.

We recommend that you compare available services and select the provider that best fits your needs.

- **If you have already contracted with a provider**

You can use your provider accounts (such as user ID and password) on your PC.

- **When you have contracted with a provider**

You will receive a document showing your user ID, password and e-mail address. Keep this document to hand when you set up the Internet connection.

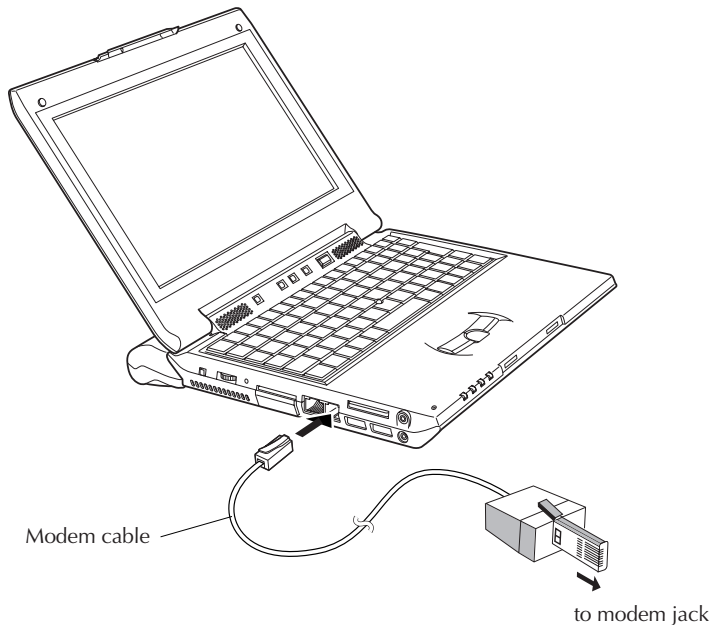
Caution

- You may need a credit card when contracting with some providers.

Connection of Telephone Line and Modem Setup

Your PC has a built-in modem and a cable attached to it. You can enjoy the Internet and e-mail services by simply connecting your PC to the telephone line.

- 1. Plug the attached modem cable into the Modem jack of your PC until it clicks. Insert the cable connector into the jack in the correct direction.**



- 2. Plug the other end of the modem cable into the telephone line wall jack.**

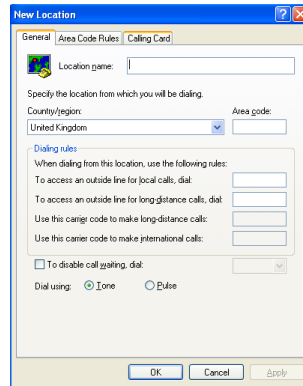
If a telephone set is already connected to the telephone line, unplug the cable of the telephone set.

Tips

Purchase a line splitter if you wish to plug in your telephone set and your PC to the same telephone line. Remember that you cannot use the telephone set and the Internet services simultaneously even if you have installed the line splitter.

3. Setting up the modem

- ① Click [start] and [Control Panel] in this order.
- ② Click [Printers and Other Hardware].
- ③ Click [Phone and Modem Options].
- ④ Click [New].
- ⑤ When the “New Location” screen appears, enter a city code in the “Area code” field. Usually, enter your city code here.
Enter the phone company ID number and extension number as necessary. (They are usually not required.)



- ⑥ Check the dialing type of your telephone line, and select it correctly.
- ⑦ Click [OK], and the “New Location” screen will close.
- ⑧ Click [OK], and the “Phone and Modem Option” screen will close. Modem setup will be complete.

The Internet Connection Setup

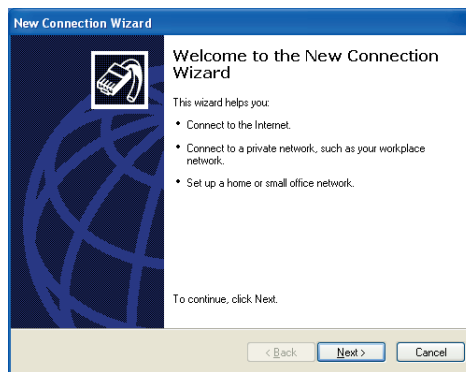
Use the following procedure to connect your PC to the Internet network. This setup example uses the built-in modem of your PC and Microsoft's Internet Explorer (IE) for the Internet connection. If you have already contracted with a provider, you can manually set up the Internet connection using the following procedure.

Tips

As your PC has networking functions, you can connect it to the Internet via the network. For the setup procedure, when you connect to the Internet via a network, see Page 66.

1. Click [start] and then click [Internet] in the upper left part of the Menu.

The "Welcome to the New Connection Wizard" screen will appear.

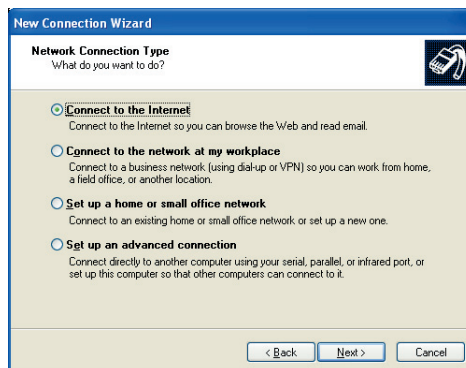


Tips

If the "Welcome to the New Connection Wizard" screen does not appear, click the [start] button and select [All Programs], [Accessories], [Communications] to start [New connection wizard].

2. Click [Next].

The "Network Connection Type" screen will appear.



3. Click [Connect to the Internet] option, and click [Next].

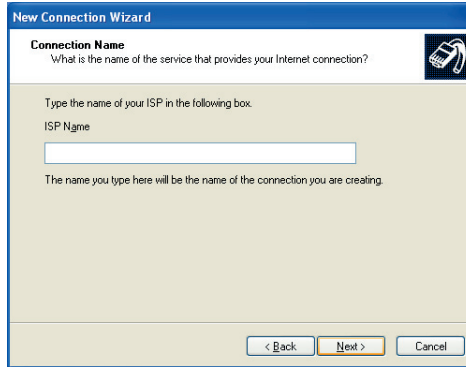
The “Getting Ready” screen will appear.

4. Click [Set up my connection manually] option, and click [Next].

The “Internet Connection” screen will appear.

5. Click [Connect using a dial-up modem] option, and click [Next].

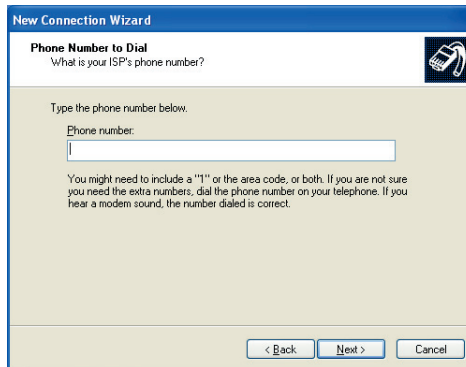
The “Connection Name” screen will appear.



The screenshot shows a Windows-style dialog box titled "New Connection Wizard". The main heading is "Connection Name" with the question "What is the name of the service that provides your Internet connection?". Below this, it says "Type the name of your ISP in the following box." followed by "ISP Name" and a text input field. A note below the field states "The name you type here will be the name of the connection you are creating." At the bottom, there are three buttons: "< Back", "Next >" (highlighted in yellow), and "Cancel". A small icon of a modem is in the top right corner.

6. Enter the “ISP name” and click [Next].

The “Phone Number to Dial” screen may appear.



The screenshot shows a Windows-style dialog box titled "New Connection Wizard". The main heading is "Phone Number to Dial" with the question "What is your ISP's phone number?". Below this, it says "Type the phone number below." followed by "Phone number:" and a text input field. A note below the field states "You might need to include a "1" or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct." At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". A small icon of a modem is in the top right corner.

Tips

It is convenient to use the contracted provider name as the ISP name.

7. Enter the phone number, and click [Next].

The “Internet Account Information” screen will appear.

The screenshot shows the 'New Connection Wizard' dialog box with the 'Internet Account Information' step selected. The title bar reads 'New Connection Wizard'. The main heading is 'Internet Account Information' with a sub-heading 'You will need an account name and password to sign in to your Internet account.' and a phone icon. Below this, there is a paragraph: 'Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)' There are three text input fields: 'User name:', 'Password:', and 'Confirm password:'. Below the fields are three checked checkboxes: 'Use this account name and password when anyone connects to the Internet from this computer', 'Make this the default Internet connection', and 'Turn on Internet Connection Firewall for this connection'. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.

8. Enter the User name and Password (and enter the password again for confirmation), and click [Next].

The “Completing the New Connection Wizard” screen will appear.

The screenshot shows the 'New Connection Wizard' dialog box with the 'Completing the New Connection Wizard' step selected. The title bar reads 'New Connection Wizard'. The main heading is 'Completing the New Connection Wizard' with a phone icon. Below this, there is a paragraph: 'You have successfully completed the steps needed to create the following connection:'. There is a section titled 'Dial-up Connection' with a bulleted list: 'Make this the default connection', 'This connection is firewalled', 'Share with all users of this computer', and 'Use the same user name & password for everyone'. Below this, there is a paragraph: 'The connection will be saved in the Network Connections folder.' and a checkbox labeled 'Add a shortcut to this connection to my desktop'. At the bottom, there is a paragraph: 'To create the connection and close this wizard, click Finish.' and three buttons: '< Back', 'Finish', and 'Cancel'.

9. Click [Finish]. The setup for connection wizard is complete.

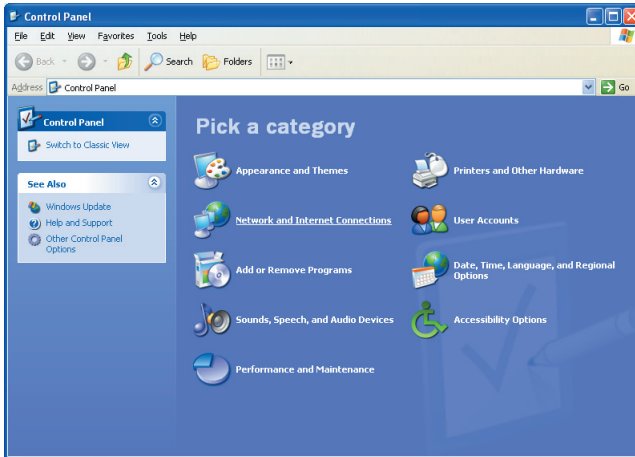
Tips

If you need to set up the DNS server address, follow steps 10 to 20.

You may need to set up DNS server addresses (the primary and secondary DNS addresses) for some providers. If the DNS server addresses are stated on the documents sent from your provider, you need to set them up. If not specified, you need not set these addresses.

10. Click [start] and [Control Panel] in this order.

The “Pick a category” screen of the Control panel will appear.



11. Click [Network and Internet Connection] icon.

The “or pick a Control Panel icon” screen will appear.

12. Click [Network Connections].

The ISP name you have set in Step 6 is shown in the “Dial-up” tag.

13. Double Click the dialup connection icon.

[Connect ***] screen will appear.

14. Click [Properties].

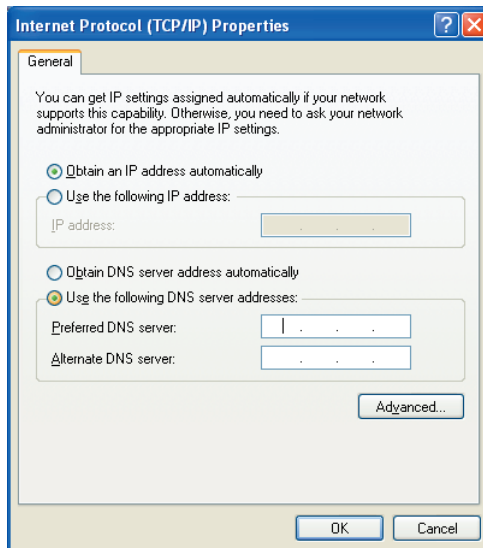
The “*** Properties” screen will appear.

15. Click [Networking].

16. Click [Internet Protocol (TCP/IP)] and click [Properties].

The “Internet Protocol (TCP/IP) Properties” screen will appear.

17. Click [Obtain an IP address automatically], click [Use the following DNS server addresses], and enter the DNS server address printed on the document sent from the provider.



18. After you have entered the addresses, click [OK].

19. Respond with [OK] to the “*** Properties”.

20. Click [x] at the upper right corner of the “Connect ***” screen.

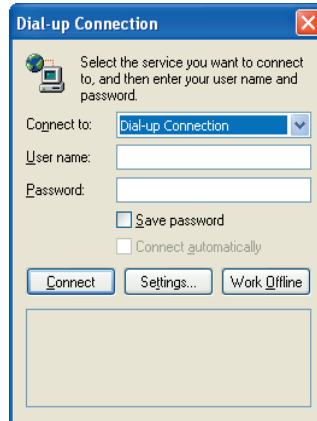
All screens will close and the Internet connection is complete.

Connecting to the Internet

After you have completed the “The Internet Connection Setup” procedure (pages 39 to 43), you can connect to the Internet. Use the following procedure.

1. Click [start] and click [Internet] at the upper left part of the Menu.

The Internet Explorer will start up and the “Dial-up Connection” screen will appear. If the “Dial-up Connection” does not start, use the following steps.




- ① Click [start] and right click [Internet] at the left upper end of the Menu. Then, select [Internet Properties].
- ② Click the [Connections] tab and make sure that the ISP name (you have created in Step 6 “The Internet Connection Setup” on page 40) has been set to default in the [Dial-up and Virtual Private Network settings]. If not set as default, select the ISP and click [Set Default].
- ③ Click [Always dial my default connection], and click [OK].

2. Click [Connect].

The dialup connection process will start and your PC will be connected to the Internet.


Tips

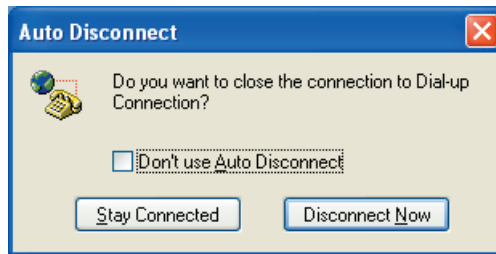
When your PC is connected to the Internet, the icon  appears in the Task tray at the bottom right corner of the desktop screen.

Disconnection from the Internet

When you are connected to the Internet, the use of the telephone line and the access to the provider are charged.

Disconnect your PC from the Internet in one of the following ways when you are finished using the Internet.

- Double-click the task tray connection icon  at the bottom right corner of the desktop screen. When the “Auto Disconnect” dialog box appears, click [Disconnect Now].
- Quit the Microsoft’s Internet Explorer (IE). When the “Auto Disconnect” dialog box appears, click [Disconnect Now].



Accessing a Web Page

There is a large number of Web sites available. You can access a Web site using Microsoft's Internet Explorer in your PC. The following shows three typical ways you can use to access a Web site.

Before starting the following steps, connect your PC to the Internet using the "Connecting to the Internet" procedure on Page 44.

When Microsoft's Internet Explorer is active, you can access a Web site in one of the following ways.

1. Directly enter the URL in the address bar.
2. Jump to the destination link.
3. Click [Favorites] and select Call a Web site from the Favorites.



E-MAILING

You need to set up a mailing software to send and receive E-mails.

Setting Up E-Mail Software

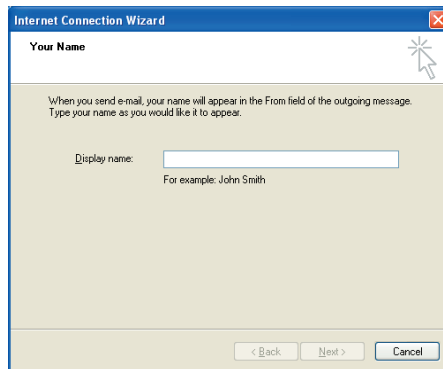
Set up the E-mail transmission using the Outlook Express installed on your PC.

Tips

It is convenient for E-mail setup if you have the document sent from the provider to hand.

1. Click [start] and click [E-mail] on the Menu.

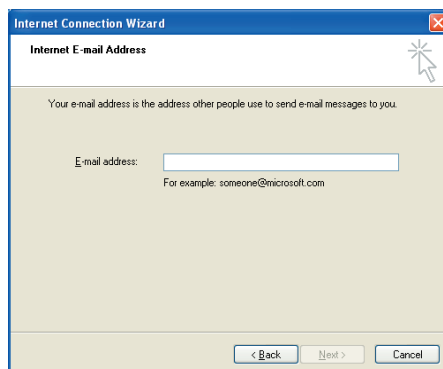
Outlook Express will start and the “Internet Connection Wizard” screen will appear.



The screenshot shows the 'Internet Connection Wizard' dialog box with the title bar 'Internet Connection Wizard'. The main heading is 'Your Name'. Below the heading, there is a text box for entering the name. The text below the text box reads: 'When you send e-mail, your name will appear in the From field of the outgoing message. Type your name as you would like it to appear.' Below this is the label 'Display name:' followed by a text input field. Underneath the input field, it says 'For example: John Smith'. At the bottom of the dialog, there are three buttons: '< Back', 'Next >', and 'Cancel'. A mouse cursor is pointing at the 'Next >' button.

2. Enter the name you wish to display in the “Display name” and click [Next].

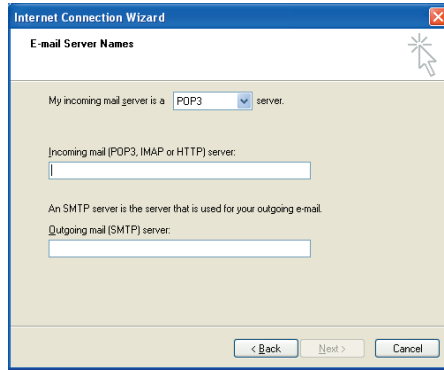
The “Internet E-mail Address” screen will appear.



The screenshot shows the 'Internet Connection Wizard' dialog box with the title bar 'Internet Connection Wizard'. The main heading is 'Internet E-mail Address'. Below the heading, there is a text box for entering the email address. The text below the text box reads: 'Your e-mail address is the address other people use to send e-mail messages to you.' Below this is the label 'E-mail address:' followed by a text input field. Underneath the input field, it says 'For example: someone@microsoft.com'. At the bottom of the dialog, there are three buttons: '< Back', 'Next >', and 'Cancel'. A mouse cursor is pointing at the 'Next >' button.

3. Enter your E-mail address in the “E-mail address” field, and click [Next].

The “E-mail Server Name” screen will appear.

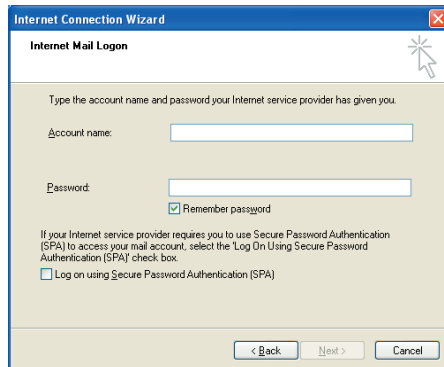


The screenshot shows the 'Internet Connection Wizard' window with the 'E-mail Server Names' tab selected. The window title is 'Internet Connection Wizard' and the tab title is 'E-mail Server Names'. The main content area contains the following text and controls:

- 'My incoming mail server is a server.' (The dropdown menu is currently set to 'POP3').
- 'Incoming mail (POP3, IMAP or HTTP) server:' followed by an empty text input field.
- 'An SMTP server is the server that is used for your outgoing e-mail.'
- 'Outgoing mail (SMTP) server:' followed by an empty text input field.
- At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

4. Enter the “Incoming mail server” and “Outgoing mail server”, and click [Next]. Usually select “POP3” as the “My incoming mail server is a server.” but you can change it if necessary.

The “Internet Mail Logon” screen will appear.

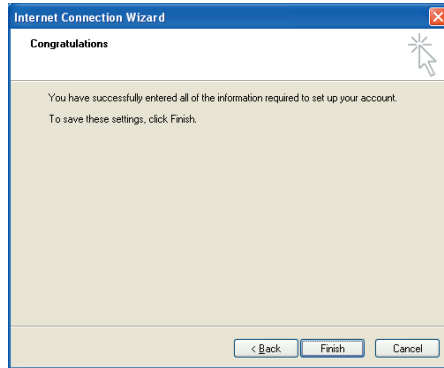


The screenshot shows the 'Internet Connection Wizard' window with the 'Internet Mail Logon' tab selected. The window title is 'Internet Connection Wizard' and the tab title is 'Internet Mail Logon'. The main content area contains the following text and controls:

- 'Type the account name and password your Internet service provider has given you.'
- 'Account name:' followed by an empty text input field.
- 'Password:' followed by an empty text input field.
- A checked checkbox labeled 'Remember password'.
- Below the checkbox, there is a note: 'If your Internet service provider requires you to use Secure Password Authentication (SPA) to access your mail account, select the 'Log On Using Secure Password Authentication (SPA)' check box.'
- A checkbox labeled 'Log on using Secure Password Authentication (SPA)' which is currently unchecked.
- At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'.

5. Enter the “Account name” and “Password,” and click [Next].

The “Congratulations” screen will appear.



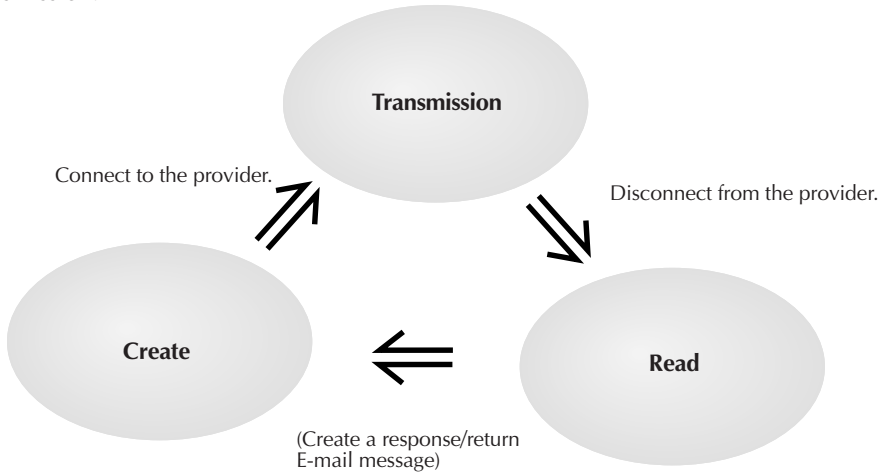
6. Click [Finish].

The “Congratulations” screen will close, and Outlook Express will start up. The setup for the E-mail software is complete.

7. To quit Outlook Express, click [x] at the upper right corner of the screen.

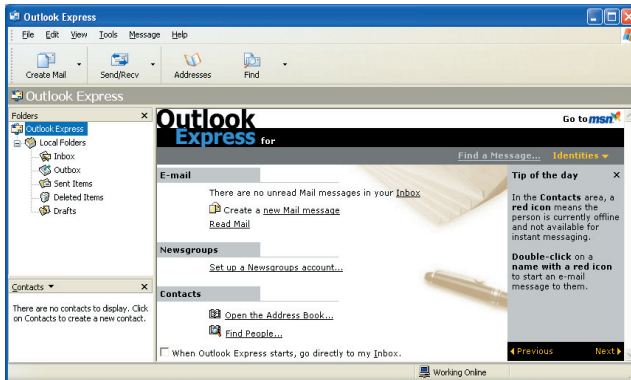
Sending and Receiving E-mails

You can create and send E-mail messages, and receive and read E-mail from others. You can learn procedures to enjoy E-mailing. Use Outlook Express installed on your PC for E-mail transmission.



1. Click [start] and click [E-mail] on the Menu.

Outlook Express will start.



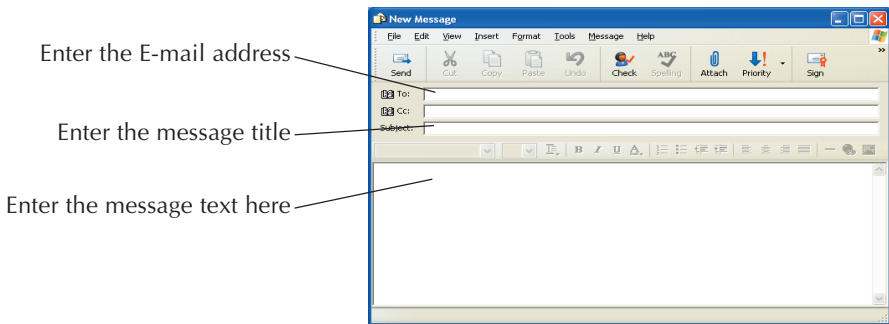
2. Click [Create a new Mail message] on the screen or click [Create Mail] in the toolbar.

The “New Message” screen will appear.

Tips

To minimize the access fee to the provider and the use of the telephone line, create your E-mail messages before connecting to the Internet.

3. Create a message.



Destination: Enter the receiver's E-mail address. (Enter your E-mail address first to test E-mail transmission.)

Title: Enter the message title.

4. Click [Send] at the left upper end of the screen to send the created message.

The "Dial-up Connection" screen will appear.

Tips

If you have already connected to the Internet, the "Dial-up Connection" screen is not displayed but the message is directly sent when you click [Send].

5. Click [Connect] in the "Dial-up Connection" screen to connect to the Internet.

You will be connected to the Internet, and the created mail will be sent to the specified address.

6. If your mail transmission is successful, try to receive E-mail. When you are connected to the Internet, click [Send/Recv] at the left upper end of the screen.

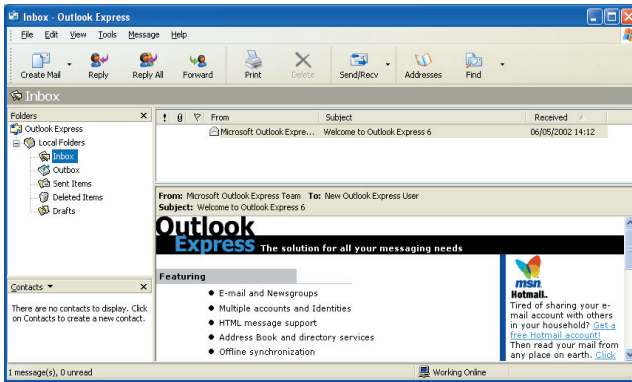
Your PC will be connected to the provider's mail server and you can receive E-mail.

Assuming you have set your E-mail address correctly in Step 3, you can now receive the test E-mail you have sent to yourself.

Tips

If message "You are currently working offline. Would you like to go online now?" appears when you have clicked [Send] or [Send/Recv], respond with [Yes].

7. To check the received messages, click [Inbox] on the screen.



The received E-mail messages will be displayed.

8. To quit Outlook Express, click [x] at the upper right corner of the screen.

Cautions

- Disconnect your PC from the Internet after you have transmitted E-mail and finished accessing a Web site.
- It may not be possible to send mail properly using a company network or roaming service. If this problem arises, the method below may solve it.

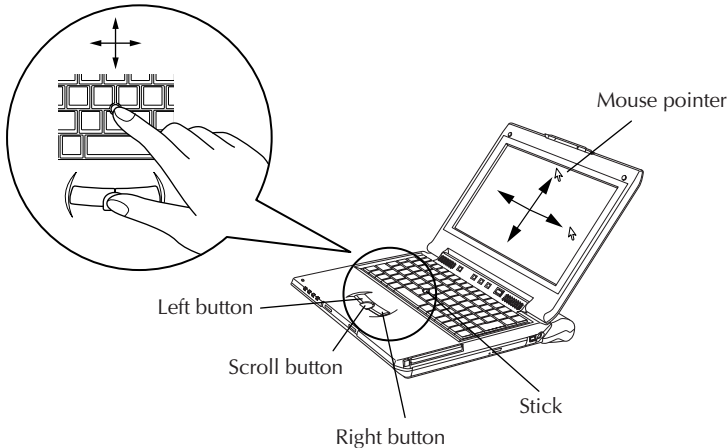
Before sending the mail, first perform the receive mail operation even if no mail has been received, and then click [Send].

4

OPERATIONS

Using the Pointing Device

The pointing devices allow you to move the mouse pointer on the screen. You can move the cursor using the center stick and three buttons in the similar way as the mouse.



• Stick operations

Usually operate the stick using your index finger. The mouse pointer moves in the direction you press the stick. You can control the speed of mouse pointer movement by changing the pressure on the stick.

When you press the stick harder, the mouse pointer moves more quickly.

Notes

- If you press the stick slightly and move the pointer slowly for several seconds, the pointer may return backward. This is not a fault.
- Two stick caps are included in the PC accessory pack. When the cap has deteriorated, replace it with a new one.

• How to press the buttons

Usually press the three buttons using your thumb.

• Click

Press the left button once and release it immediately.

Use this operation to select a menu option or to press the [OK] or [Cancel] button.

• Right click

Press the right button once.

Use this operation to display a popup menu.

- **Double-click**

Press the left button twice in succession and release it immediately.

- **Drag**

Use this operation to move an icon or a file. To do so, select an icon or a file, hold down the left button and move it to the desired position, and release the button.

Note

The pointing devices have initially been set for the “right-handed person” on the “Mouse properties” tab.

- **Scroll buttons**

You can scroll the screen in the desired direction by holding down the scroll button and moving the stick horizontally or vertically.

Note

Some applications may not support the scroll buttons.

Using Keyboard

Using Hot keys

You can use the colored hot keys of the PC keyboard. Hold down the **[Fn]** key and press one of the Hot keys to execute its command.

List of hot keys

- | | |
|--------------|---|
| [F3] | Stand by the Mobile PC. |
| [F4] | Hibernate the Mobile PC. |
| [F10] | Switches between the LCD display and an external monitor. (Please refer to page 65 about mode switching from LCD panel to CRT display, to LCD plus CRT display.) |
| [F11] | Turns the Num Lock key on or off. For operation details, see "Using the Numeric Keypad" of the next section. |
| [F12] | Turns the Scroll Lock key on or off. |
| [Ins] | Issues the Print Screen (PrtSc) command. The screens displayed in the Windows are copied onto the clipboard. You can select a window and copy it using the [Alt] key together. ([Alt] → [Fn] → [Ins]) |

Notes

- The hot keys are not supported in the MS-DOS environment.
- If a key top has come off, refer to page 57.

Using the Numeric Keypad

Sixteen keys of the keyboard have been assigned to the numeric keypad. Each of these keys has two labels in different colors to identify their functions. (Blue characters printed on the diagonal part of the key are numeric keypad keys.)

To use the numeric keypad:

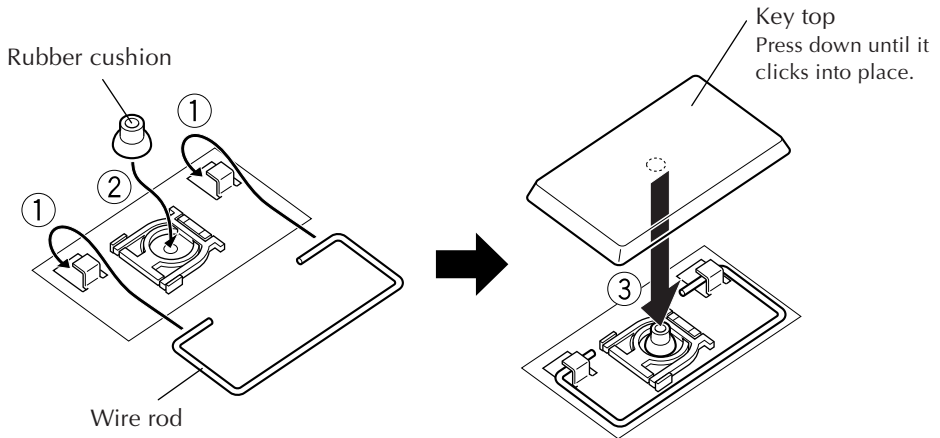
Hold down the **[Fn]** key and press the **[NumLK]** key. When the numeric keypad is functional, the Num Lock lamp lights. (See the "Status indicators" on Page 19. Now, you can enter a numeral printed in blue on the diagonal part of the key.

If a Key Top Has Come Off

If a key top has come off from the keyboard, put it back in place by following the procedure below.

● How to attach the Enter key, left Shift key or Space key top

- ① Take out the disengaged wire rod, and snag it onto the two projections as shown in the figure below.
- ② Place the disengaged rubber cushion at the position shown in the figure below.
- ③ Align the center position of the key top with the center position of the rubber cushion, and press the key top down until it clicks into place.
- ④ Operate the key with its key top now in place as you would operate it normally, and check that it does not come off.



● How to attach any other key top

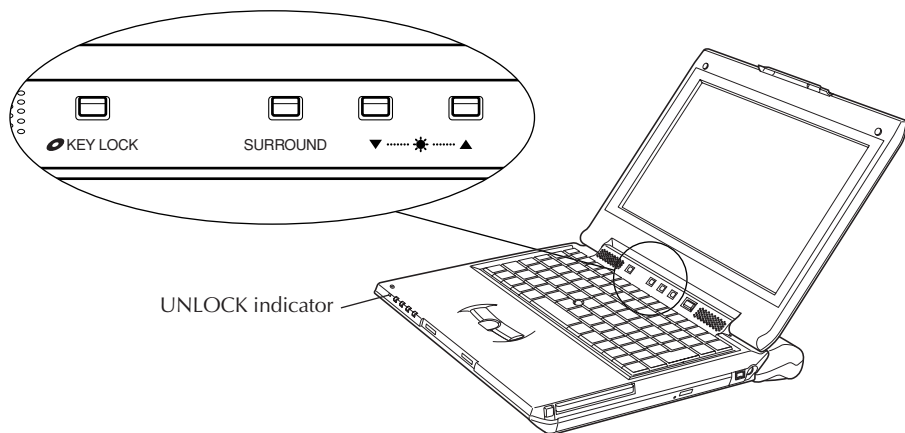
The wire rod shown above is provided with Enter key, left Shift key and Space key only. When the key top of any other key has come off, follow steps ② to ④ above.

Note

- As soon as the key top clicks into place in step ③ of the procedure to attach the key top, do not apply any further pressure to it or the key may be damaged.

Using the center keys

Using the center keys on the left of the **⏻/⏪** (On/Off) key, you can perform a number of operations in a single action.



• Center keys

○ KEY LOCK

This disables operations to be performed using the DVD/CD function keys. When the UNLOCK indicator on the left of the DVD/CD function keys is off, it means that the operations you intend to perform using the DVD/CD function keys will be canceled. To use the DVD/CD function keys, press the ○ KEY LOCK key among the center keys, and check that the UNLOCK indicator is lit.

SURROUND

This tool is specially designed to be used with InterVideo WinDVD 5 for JVC.

It is used to switch the sound. While it is operating, the sound is switched by one setting in the following sequence each time the SURROUND key is pressed: OFF → DVS (Dolby Virtual Speaker) → DH (Dolby Headphone).

• Dolby Virtual Speaker

At this setting, you can listen to music recorded using the 5.1 channel recording and playback system for home theaters through two virtual speakers.

• Dolby Headphone

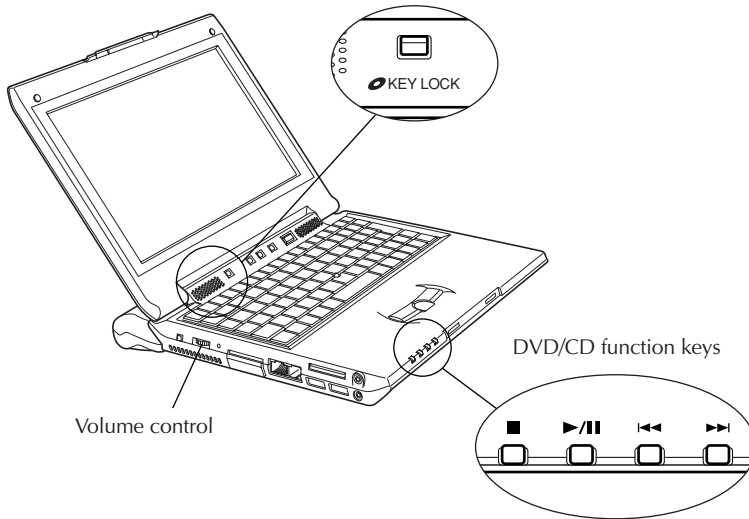
At this setting, you can listen to virtual sound from headphones.




Use these keys to change the screen brightness. Press ▼ to make the screen darker and ▲ to make it lighter.

Using the DVD/CD function keys





By using the DVD/CD function keys at the bottom left of the keyboard, you can play DVDs or CDs in a single action.



Caution

When the UNLOCK indicator on the left of the DVD/CD function keys is off, it means that the operations you intend to perform using the DVD/CD function keys will be canceled. To use the DVD/CD function keys, press the  KEY LOCK key among the center keys, and check that the UNLOCK indicator is lit.

• DVD/CD operations

	Press this to stop DVD or CD play.
	Press this to start or temporarily stop DVD or CD play.
	Press this to move back to the previous chapter or title on the DVD or track on the CD.
	Press this to move ahead to the next chapter or title on the DVD or track on the CD.

• Volume control operations

- ① You can turn up the volume by moving the volume control toward you or turn it down by moving the control away from you.
- ② You can mute the sound by pressing the volume control. The control is released when it is pressed again.

MEMO

A series of horizontal dashed lines for writing.













5

HARDWARE

Using the DVD-ROM & CD-R/RW drive

This PC comes with a DVD-ROM & CD-R/RW drive.

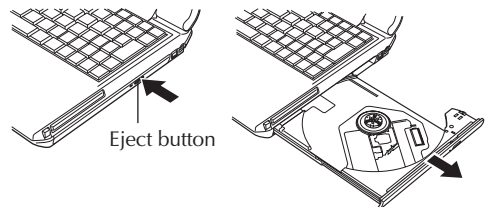
Types of discs supported

- DVD-RAM: Use discs bearing the  mark.
- DVD-ROM: Use discs bearing the  mark.
- DVD-R: Use discs bearing the  mark.
- DVD-RW: Use discs bearing the  mark.
- DVD-Video: Use discs bearing the  mark.
- Video CD: Use discs bearing the  or  mark.
- CD-R: Use discs bearing the  mark.
- CD-RW: Use discs bearing the  or  mark.
- CD-ROM: Use discs bearing the  mark.
- Music CD: Use discs bearing the  mark.

* It may not be possible to read discs under some circumstances (depending on such factors as the recording quality, the presence of scratches, dirt or deformation and copy protection).

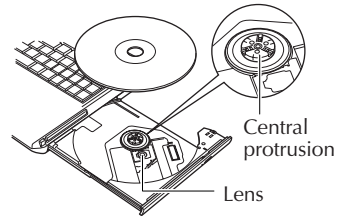
Inserting the discs

1. Press the **On/Off** key to turn on the PC's power.
2. Press the **Eject** button, and pull out the open disc tray.
 - Remove the protective sheet which was used when the PC was in transit.



3. With the label surface facing up, align the hole in the center of the disc with the central protrusion of the disc tray, and push down on the disc to seat it properly.

- Check that the disc clicks into place.



4. Push the disc tray back inside the PC until you hear a clicking sound.

Removing

1. Press the **On/Off** key to turn on the PC's power.
2. Press the **Eject** button, and pull out the open disc tray.
3. Take hold of the disc on both sides, and pull it up to remove.
 - If the disc is hard to remove, it will be easier to remove it if you press the central protrusion slightly.
4. Push the disc tray back inside the PC until you hear a clicking sound.

Tip

What to do if the disc tray does not pop out

When the PC's power is off, the disc tray will not pop out even if you press the Eject button. If it is not possible to supply the power, push a sharp-pointed object (such as a paper clip) into the Eject hole on the left of the Eject button.

In the following situations, the disc tray will not open even if the power is on. After the **(DVD-ROM & CD-R/RW access lamp)** has gone off, press the Eject button and open the disc tray.

- Immediately after the power has been turned on
- Immediately after the PC has been restarted
- Immediately after the disc tray has been closed
- While data is being saved on a CD-R/RW disc

Caution

- Attempts to write data on a disc while using the lithium-ion battery pack to power the PC may not be completed successfully because the battery charge has run down. Therefore, be absolutely sure to use the AC adapter when saving data.
- Do NOT use the DVD or CD lens cleaning agents sold in stores. Trouble may occur if they are used.
- If the "Region verification" screen appeared during DVD video playback, refer to page 103.

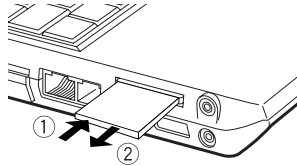
Using the SD Memory Card Slot

Your PC has an SD memory card slot.

An SD memory card or multimedia card can be used.

When you use an SD memory card, remove the dummy card from the SD memory card slot.

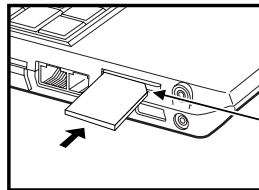
1. Remove the dummy card.



- ① Press the dummy card slightly, and it will be ejected.
- ② Hold the ejected card and remove it from your PC.

2. Insert an SD memory card.

Caution: Insert the SD card in the correct direction.



Check the cut area.
(The terminal side
must face downward.)

Notes

- The SD memory card and MultiMedia card are optional.
 - The SD memory card slot of your PC does not support the SD I/O function and data transfer using the copyright protection functions.
 - If you do not use an SD memory card on your PC, keep the dummy card inserted in the slot to prevent dust or other foreign bodies getting into the PC.
 - When formatting an SD memory card or MultiMedia card in this PC's SD memory card slot for use in a DVC or digital camera, first select [FAT] rather than [FAT32] on the Windows XP format screen, and then proceed with the formatting.
- * Before formatting a memory card, back up its contents on the PC's hard disk drive, for instance.

Using an External Monitor

To attach an external monitor to your PC, use the external display cable.

Connecting an external monitor

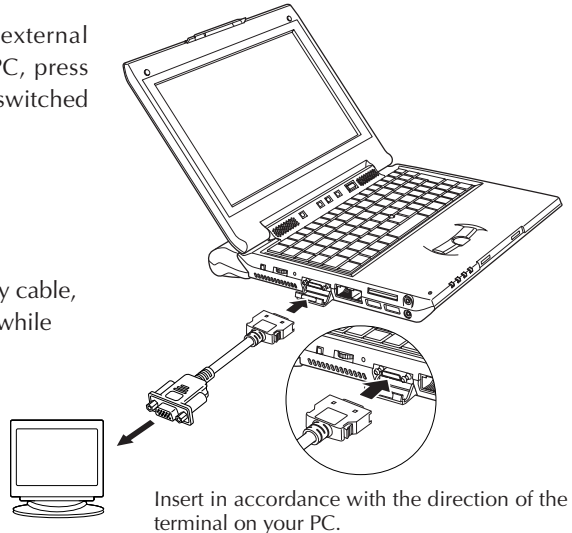
When you connect an external monitor to your PC, it looks like an ordinary desktop PC. You can use the monitor by just connecting it with the external display cable. You can display images on the external monitor for other people and you can watch them on the LCD panel of your PC.

For switching the display between the external monitor (CRT) and LCD panel of your PC, press the Fn + F10 keys, and the mode will be switched in the following sequence:

LCD (LCD panel of PC) →
CRT (external monitor) → LCD + CRT

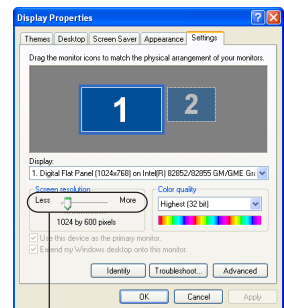
Notes

- When disconnecting the external display cable, be absolutely sure to pull it straight out while pressing the push areas at the two ends.
- No switching results when the Fn + F10 keys are pressed if the CRT (external monitor) is not connected.
- Do not disconnect the VGA cable during operation in the CRT (external monitor) mode. The mode will not be switched by operating the Fn + F10 keys while this cable is disconnected. To enable the operation of these keys in this state, the VGA cable must be re-connected. It is a good idea to switch to the LCD + CRT mode first before disconnecting the VGA cable.



Changing the external display's resolution

- ① Switch over to the external display, right-click anywhere on the screen, and click [Properties].
- ② When the "Display Properties" screen has appeared, click the [Settings] tab.
- ③ Move the [Screen resolution] bar to change the resolution.
- ④ Click [OK] to enter the new resolution setting.



Screen resolution bar

Connecting to a Network

With the network function, you can connect to a network at your office or home to transfer data between PCs and access the Internet from multiple PCs. For setting for intranet connection, consult a system administrator at your company. Connection to a network requires the following items.

- LAN cable
- Communication devices including a hub or router

Important

LAN cables are available in straight and cross types. Use a cable of the correct type for your LAN environment.

You must contract with an Internet service provider.

Using a LAN cable, connect the LAN connector on the unit with a communication device (hub or router).

See the following for setting.

Setting for Network Connection

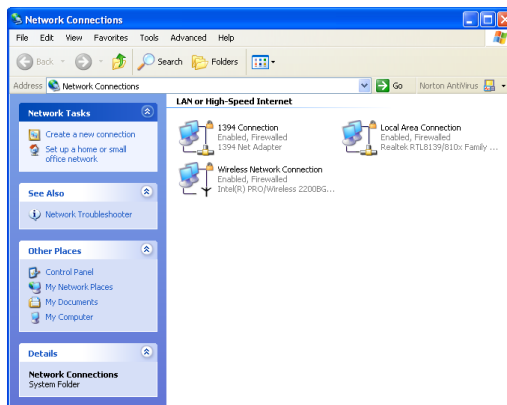
- **Setting the IP address manually**

Important

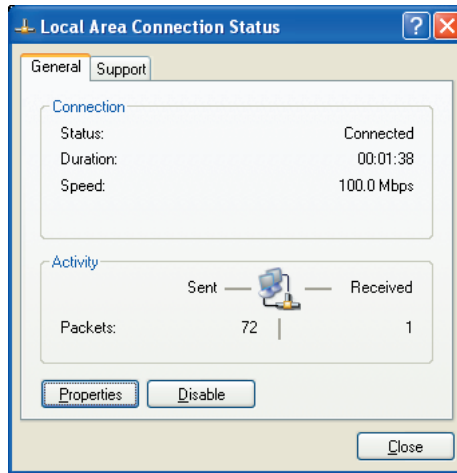
This PC will acquire the necessary initial settings automatically. When you use this PC in a home network environment and the IP address is assigned automatically, the following steps are not necessary.

- ① Click the [start] button and [Control Panel].
- ② Click the [Network and Internet Connections] icon.
- ③ Click the [Network Connections] icon.

The “Network Connections” screen will appear.



- ④ Double-click [Local Area Connection].
The “Local Area Connection Status” screen will appear.



- ⑤ Click the [Properties] button.
The “Local Area Connection Properties” screen will appear.
- ⑥ On the [General] tab, double-click [Internet Protocol (TCP/IP)].
The “Properties of Internet Protocol (TCP/IP)” screen will appear.
- ⑦ Enter appropriate values in the [Use the following IP address] and [Use the following DNS server addresses] fields.
- ⑧ Click the [OK] button to save the setting.

● Setting a computer name or work group

Tips

To share data or a printer among a group of computers, you must set the computers in the same work group. This enables you to transfer data between computers.

- ① Click the [start] button and [Control Panel].
- ② Click the [Performance and Maintenance] icon.
- ③ Click the [System] icon.
The “System Properties” screen will appear.
- ④ Click the [Computer Name] tab.
- ⑤ Click the [Change] button.
- ⑥ Change the “Computer name” and/or “workgroup” as necessary.
- ⑦ Click the [OK] button to save the setting.
The “Change in computer name” screen containing the “Welcome to the *** workgroup.” message will appear.

- ⑧ Click the [OK] button.
A message prompting you to restart the computer will appear.
- ⑨ Click the [OK] button to make the change take effect.
- ⑩ Restart the computer.

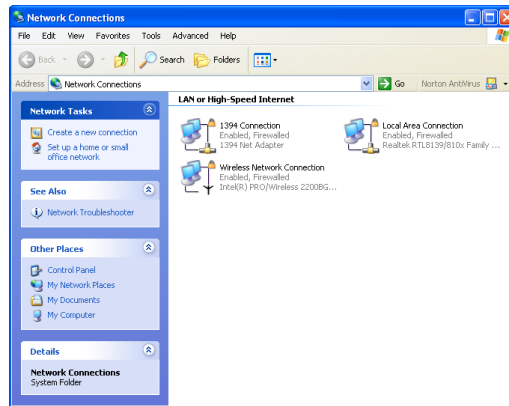
• Checking the MAC address

Use the following procedure to check the MAC address of the internal LAN card.

Important

To check the MAC address, you have to set a LAN (local area) connection in the [Network connection] screen.

- ① Click the [start] button and [Control Panel].
- ② Click the [Network and Internet Connections] icon.
- ③ Click the [Network Connections] icon.
With the correct LAN connection, the following screen will appear.

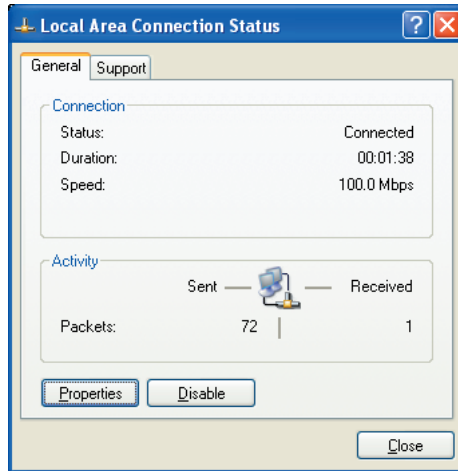


- ④ Check that [Local Area Connection] is enabled.

Tips

If it is disabled, move the mouse pointer to [Local Area Connection] and press the right mouse button to bring up a menu, click [Enable] to enable the connection.

- ⑤ Double-click [Local Area Connection].
The “Local Area Connection Status” screen will appear.



- ⑥ Click the [Support] tab and the [Details] button.
The “Network Connection Details” screen will appear.
- ⑦ The MAC address is displayed as the “Physical Address” on the list.

Network Connections Using a Wireless LAN

The model MP-XV841GB PC comes with wireless LAN functions.

You can connect to a LAN system from any location within the wireless communication area to access the Internal LAN or send and receive mail. By using a wireless LAN access point (available from a retail store) which is connected to an ADSL modem (available from a retail store), you can access broadband environments from a multiple number of PCs. Furthermore, you can bring your PC to one of the public wireless LAN services which have been increasing of late and enjoy accessing the Internet by wireless means.

For the wireless network settings and details, refer to [Help and Support] on the [Start] menu.

General Description of Wireless LAN

The wireless LAN in this PC supports the following functions.

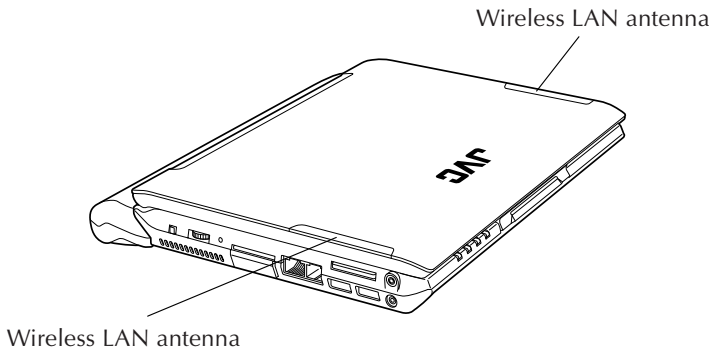
- Automatic communication speed selection function:
 - IEEE802.11g: 6/9/12/18/24/36/48/54 (Mbps)
 - IEEE802.11b: 1/2/5.5/11 (Mbps)
- Frequency channel selection:
 - IEEE802.11g/b: 2.412~2.462GHz (11ch)
- Roaming between multi-channels
- Power management function
- Compliance with IEEE802.11 and IEEE802.11b/g standards

Types of Wireless LAN Networks

- AdHoc Mode
In this mode, the data is transferred directly between PCs. It is suited to wireless networks in which data is transferred between several laptops. The peer-to-peer workgroup setting for providing equal handling for all the laptops is established.
- Infrastructure Mode
In this mode, the PCs are connected through an access point. If the access point is connected to an ADSL, CATV, ISDN or other such line, the PCs can be connected to the Internet as well.

Suggestions for Using the Wireless LAN

- Use the wireless LAN in a location where there are as few obstacles as possible. To maximize the distance over which communication with the wireless LAN is possible, open the display, and point its reverse side (the side with JVC logo) at the access point. Do not place any obstacles such as books or thick stacks of paper between the PC and access point.



Setup Procedure for the Wireless LAN

Caution

In order to make it easier to check the operation of the PC's wireless LAN, start the access point before proceeding to use the wireless LAN in the infrastructure mode. For use in the AdHoc mode, start the PC that serves as the other end of the communication where the wireless LAN settings have already been completed if possible before proceeding to use the wireless LAN in this mode.

1. Start up the PC.

If the [Intel Setting Service] screen appears, click the [No] button.

This message will no longer appear if a check mark is entered for “Do not display in the future”.


2. Set the wireless LAN to ON using the wireless LAN ON/OFF switch.

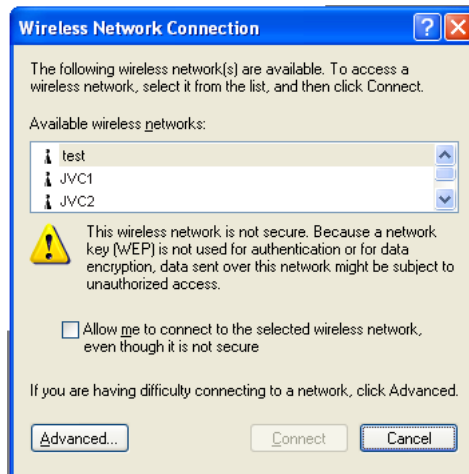
The wireless LAN now starts up, and the wireless LAN indicator (📶) on the right of the center keys flashes while a search is being conducted, and it lights when a connection is made.

(In order to prevent other electronic devices or equipment in places such as aircraft and hospitals from being adversely affected, keep the wireless LAN functions shut down when starting up the PC or restoring its operation from the standby or hibernation mode.)

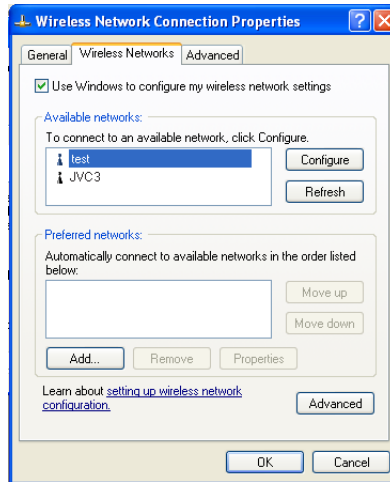
3. Set the IP address to be used by the wireless LAN.

This step must be taken only when the wireless LAN is to be used for the first time. Once the wireless LAN has been successfully connected, jump to step 4 (page 75) when re-connecting the wireless LAN for the second or any subsequent time.

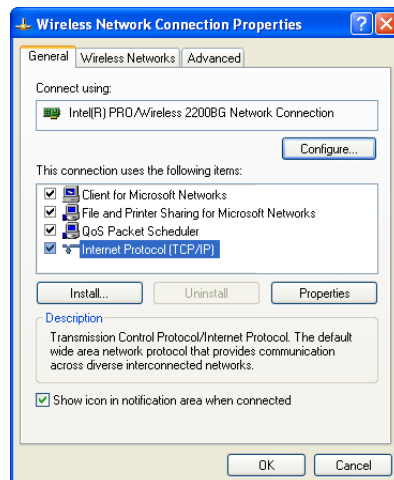
- ① Double-click the [Wireless Network Connection]  icon on the task tray. The [Wireless Network Connection] screen now appears.



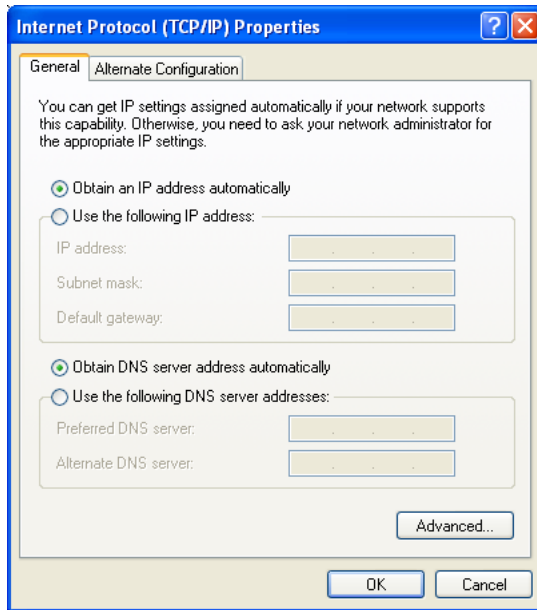
- ② Click the [Properties] button on the [Wireless Network Connection] screen. The [Wireless Network Connection Properties] screen now appears.



- ③ Click the [General] tab on the [Wireless Network Connection Properties] screen, and click [Internet Protocol (TCP/IP)] to select the Internet protocol. A screen such as the one shown below appears.



- Click the [Properties] button on the [Wireless Network Connection Properties] screen. The [Internet Protocol (TCP/IP) Properties] screen shown below now appears.



- Use the following example as a reference, and proceed with the settings to suit how the wireless LAN is to be used.

For making a wireless network connection using a public wireless LAN service:

With a public wireless LAN service, it is customary for the DHCP server function that automatically allocates the IP address to be enabled. On the [Internet Protocol (TCP/IP) Properties] screen, click and select “Obtain an IP address automatically” and “Obtain DNS server address automatically” and click the [OK] button.

For directly communicating with another PC using a peer-to-peer connection:


Set the IP address which has the same network address as the IP address of the PC that serves as the other end of the communication. If, for example, the IP address at the other end is 192.168.1.1, click and select “Use the following IP address” on the [Internet Protocol (TCP/IP)] screen, and input 192.168.1.2, for instance, in the “IP address” field. Input 255.255.255.0 for “Subnet mask” and click the [OK] button.

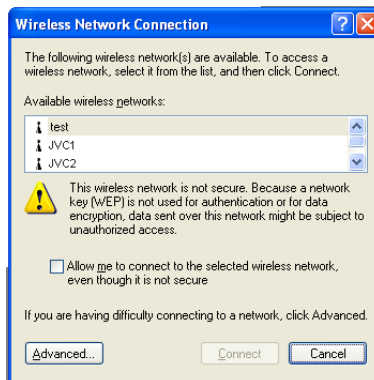
For making the wireless network connection via an access point:

In cases involving an in-company LAN, etc. where a DHCP server is in operation on the wired network to which the access point is connected, click and select “Obtain an IP address automatically” and “Obtain DNS server address automatically” on the [Internet Protocol (TCP/IP) Properties] screen, and click the [OK] button. (Check with a network administrator to ascertain whether the DHCP server is in operation.)

In a home or other such environment where a DHCP server is not in operation, manually set the IP address to the one that has the same network address as the IP address of the access point. If, for example, the IP address of the access point has been set to 192.168.10.1, click and select “Use the following IP address” on the PC’s [Internet Protocol (TCP/IP) Properties] screen, and input 192.168.10.2, for instance, in the “IP address” field. Input 255.255.255.0 for “Subnet mask” and click the [OK] button.

When connecting to the Internet using a wireless LAN access point connected to an ADSL modem (available from a retail store), check the method used to set the IP address with the Internet service provider.

4. **When the wireless LAN starts up, the PC automatically searches for the network which can be used. When a usable network has been detected, a message appears on the task tray.**
5. **Double-click the wireless network connection  icon on the task tray at the bottom right of the screen.**
The [Wireless Network Connection] screen appears.
6. **Select the access point to be connected from the ones in “Available wireless networks”, and click the [Connect] button.**



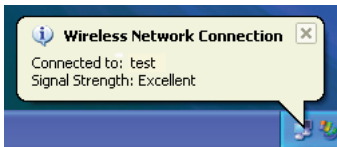
Tips

In order to prevent wiretapping and unauthorized intrusions, a network key (WEP key) may have been set for each access point. Depending on the access point, a WPA setting with a raised security level may have been established. If a network key has been set, input as required. For details on how to set the network key, refer to “How to Set the Wireless LAN Functions” on page 77.

WPA : This stands for Wi-Fi Protected Access. It is designed to raise the security level of wireless LANs. WPA changes the encryption keys dynamically to better deal with attempts to deductively infer the encryption keys, impersonation and data tampering.

WEP : This stands for Wired Equivalent Privacy. It refers to a technology used to prevent wireless LAN wiretapping and unauthorized intrusions to raise security levels by encrypting the contents of communications and transmitting the encrypted data between computers.

7. When the computer is connected to the wireless network, the following message appears on the task tray.



How to Shut Down the Wireless LAN Functions


1. Set the wireless LAN ON/OFF switch to OFF.

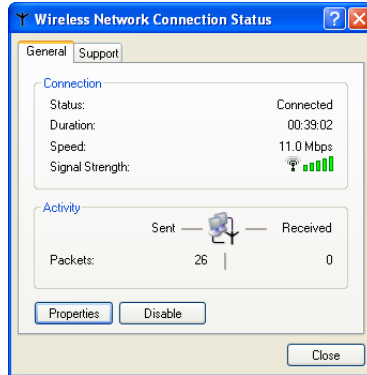
- The wireless LAN shutdown icon appears on the display for several seconds before vanishing.

Note

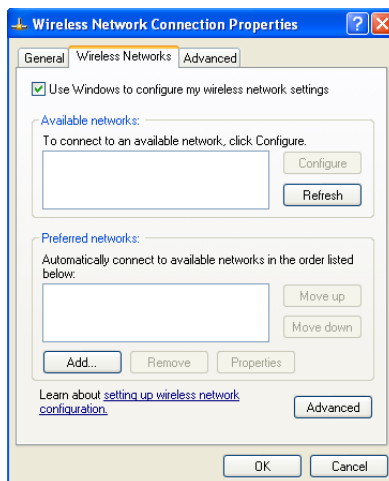
In order to conserve power, it is recommended that the wireless LAN functions be shut down while they are not in use.

How to Set the Wireless LAN Function

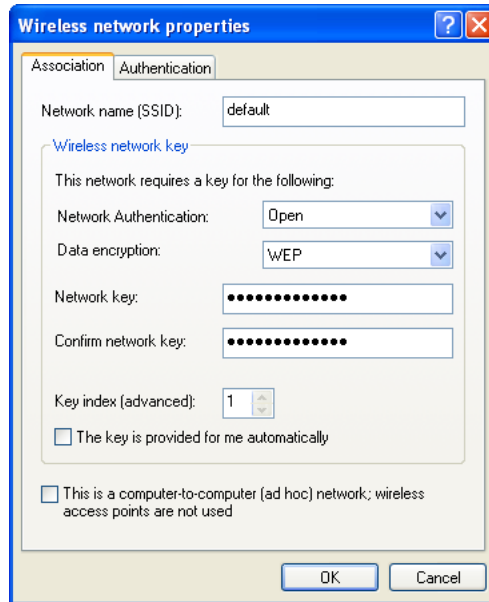
1. Double-click the [Wireless Network Connections]  icon on the task tray. The “Wireless Network Connection Status” screen will appear.



2. Click the [Properties] button on the [Wireless Network Connection Status] screen. The [Wireless Network Connection Properties] screen will appear.
3. Click the [Wireless Networks] tab on [Wireless Network Connection Properties] screen.



4. Select the network used from the list of [Preferred Networks], and click the [Properties] button.



5. Set the necessary items, and click the [OK] button.

Example 1) Set [Data encryption] to [WEP].

- 2) Remove the check from the "The key is provided automatically" item.
- 3) Select "Data encryption".
- 4) Input the "Network key."

With 64-bit WEP, a key consisting of up to five half-size alphanumerics (or 10 characters in the hexadecimal format) may be input.

With 128-bit WEP, a key consisting of up to 13 half-size alphanumerics (or 26 characters in the hexadecimal format) may be input.

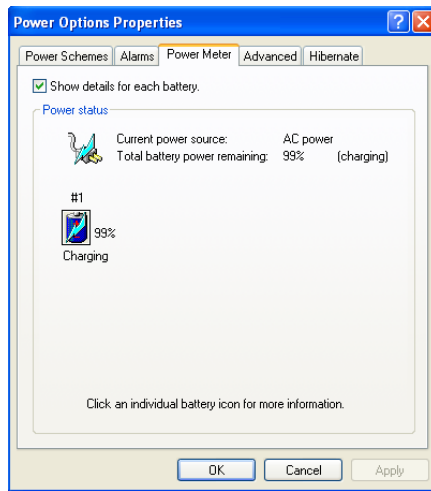
- 5) Input the same data as for "Network key" in the "Confirm network key" field.
- 6) Select "Key index."

6. Close all screens. This completes the settings.

Checking the Battery Level

On the “Power Option Properties” screen, click the [Power Meter] tab. The current total battery level is displayed. Use the following procedure.

1. Click the [start] button and [Control Panel].
2. Click the [Performance and Maintenance] icon.
3. Click the [Power Options] icon.
The [Power Option Properties] screen will appear.
4. Click the [Power Meter] tab.







The total level of battery is displayed.

Power-saving Mode

In compliance with the operation regulations of the International Energy Star Program, this unit enters the power-saving mode when no operation is performed for a certain period.

On the [Power Schemes] tab in the “Power Option Properties” screen (page 79), you can specify the time that must expire before the unit enters the power-saving mode. The table below shows the factory settings.

	Operating on AC power	Operating on battery	Status
① Turn off monitor:	15 minutes	5 minutes	The LCD screen turns off. The  (Stand By) lamp is still lit in green.
② Turn off hard disks:	30 minutes	5 minutes	The hard disk power is turned off with the LCD screen kept off. The  (Stand By) lamp is still lit in green.
③ System standby:	20 minutes	5 minutes	The LCD screen is turned off. The  (Stand By) lamp flashes in green.
④ System hibernates:	3 hours	2 hours	The PC stores the current system status on the hard disk. The  (Stand By) lamp will go out.

Tips

To exit status ① or ②, move the stick or press any key on the keyboard.

To exit status ③, press the Power key or any key on the keyboard.

To exit status ④, press the Power key.

Important

- In statuses ① through ③, Windows is still running. Note that the current condition is lost if the PC is turned off by pressing the Power key for more than 4 seconds.

- **System in standby status**

The battery discharges whilst the PC is in system standby status. As a result, any unsaved data may be lost or the system may not start up. Be sure to turn off the PC when it is not used for a long time.

- **System in halt status**

Continued operation on the PC displaying a battery-low warning causes the result as follows:

- ① When the halt status is enabled
The PC turns off while maintaining the current data.
- ② When the halt status is disabled
The PC does not save the current data, which will be lost.

We recommend that you enable the halt status setting. This function is enabled at the factory.

Increasing the (Optional) Memory Capacity

You can increase the PC memory capacity up to 768M bytes (built-in memory 256M bytes + added memory 512M bytes). For the built-in memory capacity, see the Product Specifications on Page 112. You can reduce the application startup time and increase the data process speed by adding an optional memory board.

Consult the JVC Support below.

JVC Company of America
Customer Care Center
TEL: 1(800)252-5722
9:00-17:00 EST (Monday-Friday)
customerrelations@jvc.com
<http://www.jvc.com>

JVC Canada Inc.
TEL: (888)293-1311
9:00-17:00 EST (Monday-Friday)
FAX: (416)293-8208
E-MAIL: support@jvc.ca
<http://www.jvc.ca>

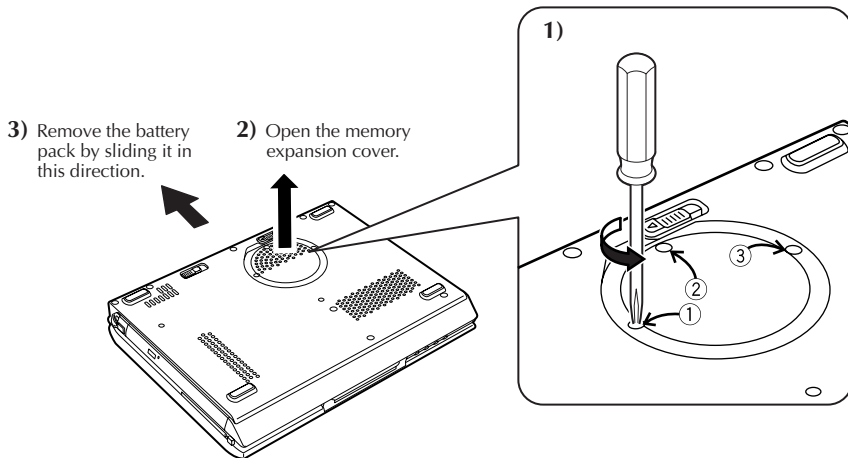
Notes

- Check the memories supported by your PC by accessing:
<http://www.jvc.com>
The memory boards which have been checked for reliable operations are listed on our Web site. Any other memory board may not be recognized by your PC or its operation may be unreliable.
- The PC inside contains precision components. If you have damaged the memory board by adding a memory, it is not covered by the warranty. Also, if you have damaged your PC, you will be charged for its repair.
- Take care not to cause excessive static electricity. Do not add a memory board in a place where static electricity may be generated.
- When you add or replace a memory board, take care not to drop water or other liquids onto your PC or the memory board. Also, take care not to drop screws or other foreign materials that may cause the failure of your PC.
- Data stored in the PC may be corrupted or damaged in the following cases.
 - The battery is used incorrectly.
 - The PC is affected by static electricity or electrical noise.
 - The battery has discharged.
 - The PC is faulty or under repair.
 - The PC is dropped or exposed to severe impact.
 - The PC is involved in force majeure including lightning or power failure.

Adding or Removing a Memory Board

If you have operated your PC, its inside may be hot and you may get a burn. Turn the power switch off and wait for the PC to cool down.

1. **Turn the PC Power switch off, and disconnect AC adapter from your PC. Then, remove the lithium-ion battery pack (if any) and all other peripherals from your PC.**
2. **Remove the lithium-ion battery pack and the memory expansion cover by taking the following steps.**
 - 1) Turn your PC upside down, and remove screws ① to ③.
 - 2) Open the memory expansion cover.
 - 3) Remove the lithium-ion battery pack in the arrow direction.



Caution

Do not loosen any other screws, otherwise, your PC may fail.

3. **Discharge any static electricity from your body by touching something metallic nearby. (Not on the PC)**
4. **Add or remove a memory board.**

Caution

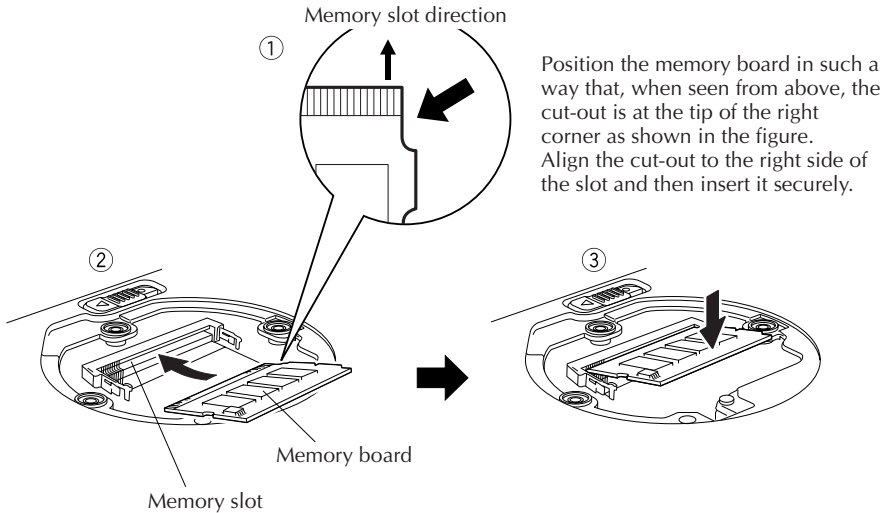
Add the 512M-byte memory board to expand the PC's memory capacity of the MP-XV841GB to the maximum 768M-bytes. Refer to page 84 for the procedure to mount and remove the memory board.

1) Mounting a memory board

- ① Check the correct mounting direction of memory board (by observing the cut area).
- ② Slant the memory board and insert it into its socket.
- ③ Push the memory board until it is locked, but do not apply excessive force to it.

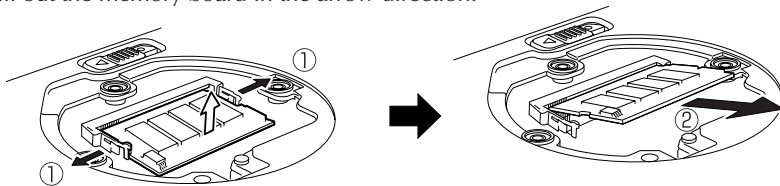
Caution

If it is difficult to lock the memory board, make sure that the board has been inserted securely. Do not apply excessive force to it, or the memory board may be damaged.



2) Removing the memory board

- ① Open the right and left support levers of the memory board by pressing them outward.
- ② Pull out the memory board in the arrow direction.



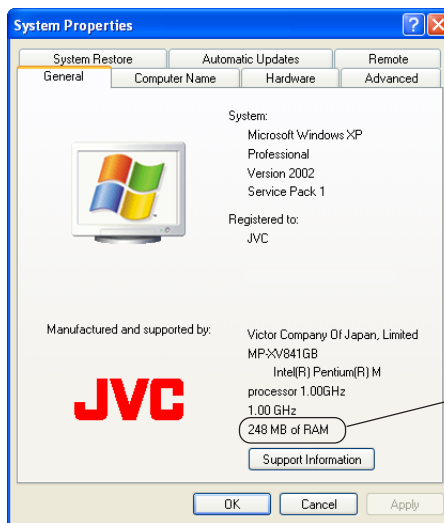
5. Return the memory expansion cover, mount the battery pack, and retighten the three screws.

Checking the Additional Memory Board

Use the following procedure to check the memory board installation.

1. Turn on your PC and start Windows.
2. Click [start] and select [Control Panel].
3. Click the [Performance and Maintenance] icon.
4. Click the [System] icon.

The "System Properties" screen will appear.



5. The total amount of memory appears on the screen.

- When a memory board has been added, the number indicated by the * location increases.


Note

The size of the video memory (assigned size) is automatically assigned from the main memory to between 8MB and 64MB depending on the PC's operating conditions. For this reason, it cannot be changed manually.

Using the UltraPOST self-diagnosis tool

Using this tool, you can check whether the following 13 items are operating properly: CPU, System Board, HDD, DVD-ROM*, RAM, SVGA, Sound, PCI Network, USB, SD Card, Card Bus, FireWire and Wireless Net.

To check the operation, follow the steps below.

- 1. Turn on the PC's power, and press [F11] while the JVC logo is displayed.**
- 2. When the "Please select boot device:" screen appears, press the [↓] key, select "UltraPOST," and press [Enter].**
 - If the "Please select boot device:" screen does not appear, restart the PC and try again from step 1.
- 3. The "UltraPOST" diagnosis item screen appears, and the diagnosis now starts automatically.**
- 4. If the background color of a diagnosis item changes to green and "Pass" appears, it means that the item concerned is trouble-free. If all the diagnosis items are trouble-free, "Test Passed" appears.**
 - For information regarding "UltraPOST" operations, refer to the [i] button at the bottom right of the screen. Do not use the extended diagnosis function since this is used for diagnosis purposes by the JVC PC Repair Centers.
- 5. Click the [X] exit button at the top right of the "UltraPOST" screen. The "UltraPOST" diagnosis tool closes, and Windows starts up.**
 - When the  (On/Off) key is pressed, the "UltraPOST" diagnosis tool closes, and the power is turned off.

* "DVD-ROM" is not set as an automatic diagnosis item (in step 3). When diagnosis is to be performed manually, the CD or DVD disc must be inserted.

Tip

If the background color of a diagnosis item changes to red and "Fail" appears or if any of the diagnosis items (13 items) are not displayed, it means that trouble of some kind has occurred. Refer to page 82 for JVC Support.

6

PC RECOVERY (REPEATED PC SETUP)

Setting Up Your PC Again

1. What is the Recovery?

When you return your PC to the original state as during shipment, it is called “PC Recovery.” You can recover your PC in one of the following two ways.

- (1) Initialize the hard disk and restore all files.
- (2) Restore the first partition of the hard disk only.

Caution

- Do not reduce the capacity of drive C below 11G bytes.
For details, see “3. Select the recovery method (disk partitioning)” on Page 89.
- When a recovery CD which was created by a bootable CD creator is used to initiate recovery, the recovery area inside the hard drive will be erased.

2. Before Starting Repeated Setup

The following explains the preparation required before system recovery.

- You may not solve the problem even if you have recovered your PC. If the problem continues, consult our PC Technical Support Center.
- You can use System Recovery on your PC only. You cannot use this software for the PC of another manufacturer.

Cautions

1) File backup

- **If you have recovered your PC, it will have been returned to the status before shipment. All files you have created, applications you have added, and various parameters you have set will have been cleared and lost.**

Before starting system recovery, back up any important files you have created on CD-R disk or hard disk drive D of your PC.

- If you have backed up the important information in drive D, you must select the option in Step ② “3. Select the recovery method (disk partitioning)” on Page 89 and you must recover drive C only.

2) When starting System Recovery

Detach all peripherals from your PC. If not, the recovery may stop or the required operations may differ from those written in the manual.

3. Repeated Setup

Execute the Recovery program to restore the information on the hard disk. The Recovery program returns both your PC and all applications back to the original state before shipment. If you wish to set up the application software separately, upload them from the Application CD-ROM one at a time. (See “To Set Up the Standard Applications Again” on Page 33.)

Caution

With some applications, you will need to input the serial number (S/N) on the CD-ROM when the application is to be set up again.

System Recovery Procedure

1. Hold down the **F10** key and press the Power button to start up your PC.

When message “Do you wish to continue? (Y/N)” appears, respond with Y.

Tips

- If you respond with N, the recovery is canceled. The PC will restart and the Windows OS will start up.
- If too much time is taken to press the key or a continuous beep is heard for other reasons, turn off the power, and repeat the process.
- If Windows starts up after a delay, exit Windows, turn off the power, and repeat the process.

2. Read the License Agreement when displayed.

If you accept the Agreement, type Y.

Tips

If you respond with N, the recovery is canceled. The PC will restart and the Windows OS will start up.

3. Select the recovery method (disk partitioning).

When message “Select the recovery method (A (Recommended)/C)” appears, respond with the ① or ② key as follows.

① If you respond with A:

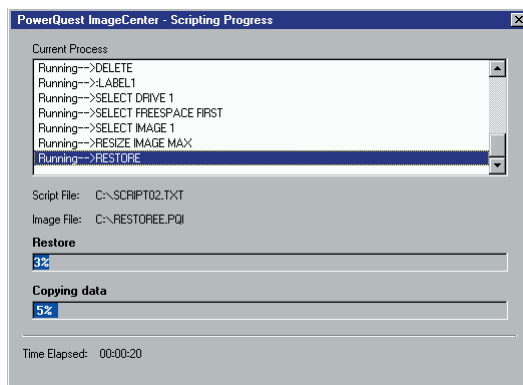
All disk partitions and files of the hard disk are recovered, and the entire PC system is initialized to its original state.

② If you respond with C:

The files of drive C are recovered and initialized.

(Usually, all data of drive D remains unaltered, as they are, and only the data of drive C is initialized. If drive D has already been removed, the PC only has drive C.)

4. The system recovery starts, and its progress is shown on the screen.



5. **After the system recovery has been completed, the message “Turn Power switch off and restart the PC.” appears. Restart your PC.**
Your PC has been returned to the original state before shipment.

6. **Set up the Windows OS by following the “Initial Setup of Microsoft Windows” procedure on Page 20.**



TROUBLESHOOTING

Q&A

There are several troubleshooting keys. If you are not sure how to operate your PC, your PC does not work well, or you suspect that your PC has been damaged, follow the relevant troubleshooting steps in the Q&A section.

If the Q&A does not help you

Contact us.

Refer to page 82 for JVC Support.

Power

Q. The power does not turn on.

A. Check the following.

- **Check that the Power key is pressed.**

Press the **⏻/⏻** (On/Off) key to turn on your PC. See “Turning **⏻/⏻**(On/Off) key On” on page 19.

When you are using your PC on AC power

- **Check that the AC adapter is connected.**

For connection, see “3. Recharge the battery pack by plugging the AC cord into DC Input connector” on page 17.

When you are using your PC on the battery

- **Check that the battery is fully charged.**

For how to charge the battery, see “4. Make sure that the battery pack is fully recharged” on page 18.

Startup and Operation of Windows

Q. The screen has hung.

A. Use the following procedure to forcibly exit the applications running on your PC.

Important

When applications are forcibly terminated through this procedure, any unsaved data will be lost.

Terminating an application forcibly

1. While holding down the [Ctrl] and [Alt] keys, press the [Del] key once.
The “Windows Task Manager” screen will appear.
2. Click the [Applications] tab.
3. Click the application that hung, then [End Task]. In most cases, applications that have hung are indicated as “Not Responding.”
4. When a confirmation message for terminating the application appears, click [End Now].
5. Click [x] on the Windows Task Manager screen.

Tips

When the application cannot be terminated, forcibly restart Windows. To restart Windows forcibly, start Windows Task Manager, click [Shut Down] on the toolbar, then click [Restart]. If your PC does not restart through the above procedure, press the RESET button on the side of the unit (page 13) or keep pressing the Power key for 4 seconds or longer to turn off the power.

About the message appearing if Windows is not exited normally

If you turn off the power without terminating Windows, the “Checking file system on c:” message appears at the next Windows startup, Windows and hard disk conditions will be checked, and data will be restored as necessary.

Q. If the system fails to start up when I have tried to start it up with a USB device connected

A. Disconnect the connected USB device, start up the system, and then re-connect the device.

Q. Starting the PC in the safe mode

A. If some kind of trouble occurs on the PC, use the safe mode where the PC starts up with minimum functions.

Use the following procedure to start up your PC in the safe mode.

1. Turn on the PC.
2. As soon as the JVC logo appears, hold down the **[F8]** key.

Tips

If the **[F8]** key is pressed too late, Windows tries to make a normal startup. Restart your PC and go back to step 2.

3. Select [Safe Mode] and press **[Enter]**.
4. Check that the operating system is selected on the "Please select the operating system to start:" screen. Press **[Enter]**.
5. When you see the "To begin, click your user name" message, click an account with which you want to start the PC in the safe mode.
6. Clicking [Yes] starts your PC in the safe mode.

Display

Q. The PC is turned on but nothing appears on the screen.

A. If the screen blacks out during operation, check the following.

- **When the  (Stand By) lamp is lit.**

- Move the stick or press any key on the keyboard to check if the power-saving function is working.

- **Check whether the VGA cable has been disconnected with the external display mode still set.**

While pressing **[Fn]**, press **[F10]**. (Each time you do this, you can change between external display and LCD modes.)

Before disconnecting the VGA cable, select a mode other than CRT (externally connected), and proceed. (Page 65)

- **To adjust the LCD display brightness:**

Pressing **▼** of center keys turns the screen darker.

Pressing **▲** of center keys turns the screen brighter.

- **When the  (Stand By) lamp is flashing.**

The PC is in standby mode (The power-saving mode is working).

Press the On/Off key or any key on the keyboard.

Important

Pressing the **/I** (On/Off) key for more than 4 seconds terminates Windows forcibly, discarding the unsaved data.

- **When the  (Stand By) lamp is not lit.**

The PC is turned off. Press the **/I** (On/Off) key to turn on your PC.

Using the Internet

Q. I cannot dial up.

A. Check the connection.

- **Check that the modem cable is connected.**

If you see the “There was no dial tone.” message, check the connection between the unit and the telephone line connector on the wall. Insert the modem fully until it is locked.

- **When a divider is used**

Connect the modem cable directly to the phone jack for checking.

- **When you are connecting via an ISDN line**

Check that the terminal adapter is ready.

For details, refer to the instruction manual for your terminal adapter.

- **Check that the modem is recognized properly.**

1. Click the [start] button and [Control Panel].

2. Click the [Printers and Other Hardware] icon.

3. Click the [Phone and Modem Options] icon, then the [Modems] tab.

4. Select the modem by clicking it, click [Properties], then the [Diagnostics] tab.

5. Click [Query Modem].

When the modem is recognized properly, the inquiry command and response to it will be displayed.

Important

If the modem is not recognized properly, check if it conflicts with any other device.

If the modem device is displayed with a “!” mark on the Device Manager screen, it may conflict with another device.

Q. The PC dials but connection is not established.**A. Check the dialing setting.**

- **Check that the dialing type (tone or pulse) is correctly set for your telephone line.**
For checking and configuration procedures, see “3. Setting up the modem” on page 38.
- **When no connection operation occurs, check the destination setting.**
Use the following procedure to check the setting for connecting to your Internet Service Provider (ISP) or network.
 1. Click the [start] button and [Control Panel].
 2. Click the [Network and Internet Connections] icon.
 3. Click the [Network Connections] icon.
 4. Right-click the icon for the destination of connection to bring up a pop-up menu. Click [Properties] in the menu.
 5. Check the setting according to the instruction manual provided from your ISP.
 - On the [General] tab, check the “Connect using” and “Phone number” settings.

Tips

Some ISPs have different phone numbers for access points via ISDN lines from those for points via ordinary lines. Contact your ISP for details.

- For how to check and set the DNS server addresses (primary DNS and secondary DNS), see DNS server address setting procedure (10-20) on pages 42 and 43.

Important

If your ISP specifies no DNS server address, click [Obtain DNS server address automatically].

Q. The PC makes a connection operation but connection is not established.**A. Check the following.**

- **Check the user name and password.**

Refer to the material sent from your ISP for correct user name and password.

- **The internal modem dials but negotiation is not made.**

The access point may have a problem. Try to establish a connection later. If this attempt fails, use a different access point.

- **Advice when using the internal modem**

If “Max Battery” or “Presentation” has been selected for “Power Options” in the “Power Options”/“Power Schemes” tab from [Power Option Properties] and the battery is being used to power the PC, this may cause the internal modem to slow down its speed of communication or fail to dial up, depending on the condition of the telephone line. In cases like this, change to a setting other than “Max Battery” or “Presentation” (such as “Portable/Laptop”).

Q. The PC cannot send or receive e-mail messages.**A. If you are using the Outlook Express software, check the e-mail software settings.**

If you are using any other mailer than Outlook Express, refer to the pertinent instruction manual or help.

1. Start Outlook Express.

Tips

If the “Dial-up Connection” screen appears, click [Work Offline] or the [x] button.

2. Click [Tools] on the tool bar (at the top of the screen). Click [Accounts] on the Tools menu.
3. Click the [Mail] tab.
4. Click an account and [Properties].
5. Click the tabs to check that the entries are correct.

Important

Use lower-case letters only.

Wireless LAN

Q. I can't communicate.

A. Check the following.

- **Is the device serving as the other end of the communication the kind of device which can communicate with the PC?**

A number of communication systems can be used with the wireless LAN, but unless the same system is used at both ends, communication will not be possible.

- **Has the security been set correctly?**

Select the same setting for the network key (WEP, WPA encryption, etc.) of this PC's wireless LAN as the one used by the access point.

- **Has the IP address been set correctly?**

Check whether the IP address been set correctly by taking step 3 (Set the IP address to be used by the wireless LAN) on page 72 in the section entitled "Setup Procedure for the wireless LAN."

- **If the wireless LAN cannot be set to ON or OFF**

First select [My Network Places] → [Display Network Connections], and then check whether "Wireless Network Connection" has been disabled.

If it is disabled, double-click to enable it on the "Connection Status" screen.

Q. The communication speed is slow.

A. Check the distance between the PC and the other end of the communication. In some cases, the communication speed varies depending on the distance involved.

Q. I can't share with other computers on the network.

A. If no other computers appear on "Local Network" selected from "My Network Places," establish the same "Workgroup" or "Domain" setting.

Q. How can I check the MAC address?**A.** Proceed as follows to check the MAC address of the PC's wireless LAN.

* In order to check the MAC address, the wireless network connection must first be set using [Network Connections].

1. Click the [Start] menu, and click [Control Panel].
2. Click the [Network and Internet Connections] icon.
3. Click the [Network Connections] icon.
4. Check that [Wireless Network Connections] is enabled.
5. Double-click [Wireless Network Connections].
The "Wireless Network Connection Status" screen appears.
6. Click the [Support] tab, and click the [Details] button.
The [Network Connection Details] screen appears.
7. The value for "Physical address" displayed on the list indicates the MAC address.

Battery**Q. The battery is not charged.****A.** Check the following.

- **When the battery cannot be charged**
- **When the lithium-ion battery pack cannot be charged**

For how to mount the lithium-ion battery pack, see "Mounting/Dismounting the Lithium-ion Battery Pack" on page 16.

If you are still unable to charge the battery pack, check the following.

Check that the AC adapter is connected correctly to an appropriate power socket and the PC unit.

For connection, see "3. Recharge the battery pack by plugging the AC cord into DC Input connector" on page 17.

Q. Battery discharge faster than expected.**A.** This device continues to supply DC current to the USB port in standby in order to respond to the wake-up signals from some USB peripherals.

If you keep this device in standby for a long time with just battery power, please remove peripherals from the USB port.

DVD-ROM & CD-R/RW drive

Q. I can't remove the disc (the disc won't eject).

- A. While data is being saved on a CD-R/CD-RW medium, the disc tray will not pop out even if you press the Eject button. Wait until the data save operation is completed.

Tip

If the disc tray fails to pop out even when you press the Eject button, push a sharp-pointed object (such as a paper clip) into the Eject hole on the left of the Eject button.

Q. Although a disc has been inserted, sound is skipped in places or data cannot be loaded or saved.

- A. Check out the following items.

- **Did you insert the disc with its label side facing up?**
- **Is the disc or the lens in the drive dirty?**
If either one is dirty, clean it. (Page 110)
- **Is the disc scratched?**
Replace the current disc with another disc to confirm that nothing is wrong with the PC.
- **Is there any dirt on the PC's turntable?**
If it is dirty, clean it. (Page 110)
- **Is there any condensation in the PC or on the disc?**
If condensation is present, remove the disc, and leave it standing for about an hour.
- **Is the format of the disc you are using supported by the drive?**
Use a disc with one of the markings listed in "Types of discs supported" on Page 62.
- **Have any stickers or other labels been stuck on the top side of the disc?**
If stickers or other labels have been stuck on the disc, the rotational balance may be lost or the recording surface may be warped so that data cannot be loaded or saved properly.

Q. Data saving fails midway through the process.

A. Before actually saving the data, conduct a data writing test with the writing program/software, and check the results. The usable writing speed may change according to the conditions under which the PC is used so try the following.

- **Change the writing speed (to a lower speed).**
- **Proceed with hard disk maintenance. (After disk scanning, proceed with defragmentation.)**
- **Disable the suspend/resume function so that it will no longer work.**
- **Close the resident software and other programs.**
- **Shut down the screen saver.**
- **Do not perform any network connections.**
- **Check that the hard drive still has enough free space.**

Q. I'm going to save some data while keeping a number of writing software programs installed in the PC.

A. You may not be able to save the data correctly in the following situations.

- **When a multiple number of writing programs are running at the same time (including the resident writing programs).**
- **When writing software with a different version has been installed.**

Q. The data cannot be read at the highest speed.

A. You may not be able to read data on non-standard CDs at the highest speed.

Q. The data written on CD-R/RW media using this PC cannot be read on another drive.

A. Use a Multi-Read drive.

- **You may not be able to read data using some CD-ROM drives.**
- **Data on CD-RW discs that support the Ultra Speed (High Speed) standard can be read only on an Ultra Speed (High Speed) drive.**

Q. The data written on CD-R/RW media using another unit cannot be read on this PC.

- A.**
- You may not be able to read the data which has been written using a multiple number of drives. You may not be able to read the data on the media written by some drives.
 - You may not be able to use the PC to read the data on some high-speed rewritable or high-speed writable discs.

Q. The “Region verification” screen appeared when attempting to play a DVD title.

A. In order to watch a DVD title, the 1) disc, 2) drive (this unit) and 3) software player (WinDVD) must all be set to the same region code (number). In order to watch DVD titles destined for the U.S. market, the region code (number) must generally be set to “1”.

1. The region code has not been set for this unit as of its default settings. Therefore, in order to watch a DVD title produced in U.S., you must first set “1” as the region code.

* When playing a DVD title with region code “1,” sometimes the unit’s region code is set to “1” automatically.

2. To play a DVD title with a different region code, change the unit’s region code to match the region code of the DVD title. However, you are allowed to change the region code in this way only for five (5) times in total (including the default setting).

3. When “1” appears for the [Number of remaining changes allowed], it means that this is the last time to change the region code. Therefore, you must set the region code to that which you use most often.

After this, you will not be able to make any further changes in the region code. If you do not set the region code to “1” as the last setting, you will not be able to play DVD titles which are destined for the U.S. market.

Caution

The user is responsible if any trouble should occur as a result of the user’s attempt to modify the region code illegally. Also, the number of allowable changes cannot be reset by initiating recovery.

SD memory cards

Q. The “Not formatted” or “Not initialized” error message appears when I insert an SD card, CF card or other memory card with a memory capacity exceeding 32MB into a digital camera or other device even though the card has been formatted, and I cannot use the card.

A. To format an SD card, CF card or other memory card with a memory capacity exceeding 32MB in this PC, the “FAT” file system rather than the “FAT32” file system must be selected on the Windows XP formatting screen. By formatting cards in this way, they can be used with digital cameras and other such devices.

* When a memory card is to be formatted, be absolutely sure to first back up its contents onto the PC’s hard disk, etc. When formatting is executed, all the information stored on the card will be erased.

Miscellaneous

Q. The PC is hot.

A. The PC may become warm when used for a long time, but this is not a failure.

Do not block the vents in the bottom or sides through which internal heat is removed.

Q. The PC makes no sound.

A. Check the following.

- **Is the volume at its lowest level?**

Use the volume control on the PC's left side panel to adjust the volume level. The volume is increased when it is turned toward you.

- **Is the volume control at the mute setting?**

The sound is switched between muting and unmuting by pressing the volume control.

Q. I forgot the password.

A. If you forget your password, you cannot start the PC again.

Whenever you set a password, be careful not to forget it.

- **If you forget the user account (computer administrator) password**

1. When a password deleting disk has been prepared

You can delete the password using the disk. For how to prepare a password deleting disk, see "Help and Support Center" from the [start] menu.

2. When another computer administrator account has been created

If an additional computer administrator (a user who has the administrator rights) is created other than the user who forgot the password, log on to the computer as the administrator to change the password.

3. When no computer administrator account has been created

When no administrator password is set, you can change the forgotten user password by starting up Windows in the safe mode and logging on as an administrator.

* If any of the above does not solve the problem, you must restore the factory setting. For procedure for setting up Windows again, see "Setting Up Your PC Again" on page 88.

- **If you forget the BIOS password**

The following passwords can be set on the BIOS.

- Supervisor Password

This is the password used by the administrator. If it has been set, it means that only an individual who inputs this password correctly can set or change any of the items. The user will be asked for this password at boot-up and BIOS setup.

- User password

When this password is set, the user is requested to enter the password to start Windows or change a BIOS setting.

- HDD password

The password required for accessing the hard disk.

Important

- You cannot delete the BIOS password even if you forget it. To delete it forcibly, you have to return your PC to us for chargeable service. (It may require hard disk drive replacement.)
- To bring up the BIOS menu, turn on the PC and press the **[Alt]** and **[F2]** keys while the JVC logo screen is shown.
Do not change the BIOS setting unless you have adequate knowledge of computers. A wrong setting can make your PC unable to start up again or, worse, damage it.

Q. Setting procedure does not complete.

A. If Internet, e-mail, or any other setting does not complete through the procedure described in this manual, check the following.

- If the [Control Panel] display is in Classical mode, change it to the Category mode. All the setting procedures in this manual assume the Category display mode.



APPENDIX

List of Support Centers

1. Norton AntiVirus 2004

<http://www.symantec.com/region/reg-eu/techsupp/index.html>

2. RealOne Player

<http://www.service.real.com>

3. InterVideo WinDVD 5 for JVC

<http://www.intervideo.com/jsp/Home.jsp>

4. PINNACLE STUDIO 9 SE

<http://www.pinnaclesys.com>

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In the text of this manual, the abbreviations for trademark and for registered trademark have been omitted.

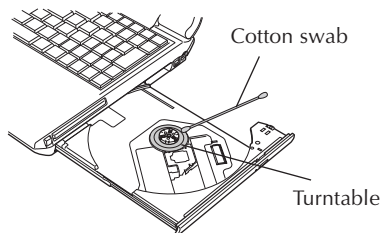
Maintenance

■ When the surface of the unit is dirty:

- Wipe with a soft cloth.
- Remove the dirt and dust on the keyboard using a camera lens blower.
- Do not remove the key-tops on the keyboard to clean them.

■ If the turntable is dirty:

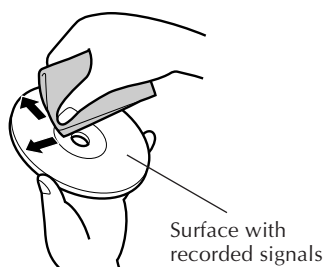
Use a cotton swab (sold in stores) to wipe the turntable (black area) gently in a circumferential motion.



Do not touch the lens.

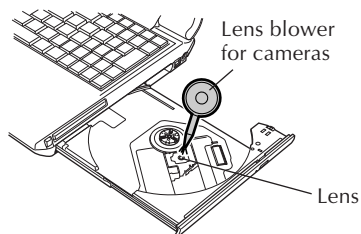
■ When the disc is dirty:

Using a soft cloth, wipe the disc from the center to the edge in all directions.



■ When the lens is dirty:

Clean the lens with a commercial lens blower.



Cautions

- Do not use record cleaners, antistatic sprays or solvents (such as benzine, thinner or alcohol). This may cause deformation or discoloration.
- Do NOT use the DVD or CD lens cleaning agents sold in stores. Trouble may occur if they are used.

How to Dispose

Recommendations for product disposal



Warning

Do not dispose of the used lithium-ion battery packs with ordinary trash.

Return this battery pack to the sales dealer or to the municipal waste processor, making sure that the battery pack is completely discharged.

Be aware of short-circuiting for the not completely discharged batteries.

Lithiumbatterien und powerpacks nur im entladenen Zustand in die Altbatteriesammelgefäße bei Handel und öffentlich-rechtlichen Entsorgungsträgern gegeben werden sollen bzw., bei nicht vollständig entladenen Batterien, Vorsorge gegen Kurzschlüsse getroffen werden muß.

- **How to remove the lithium-ion battery pack**

Refer to page 16.



Take care not to short the terminals of a battery pack which has been removed.

Specification

Main unit

Model Name		MP-XV841US	
OS		Microsoft Windows XP Professional (Built-in Service Pack 1)	
CPU	Model	Ultra Low Voltage Intel Pentium M processor	
	Clock speed	1.0 GHz	
Bus clock speed		400MHz	
Secondary cache memory		1MB	
Chipset		Intel 855GME	
Main memory		256MB, standard/768MB, max. (PC2700 DDR SDRAM)	
Extended memory slot (available slot)		MicroDIMM slot x 1 (1)	
Hard disk		40GB ^{*1}	
Graphic accelerator		Built-in Intel 855GME	
Video memory		Shared with main memory (max. 64MB) ^{*2}	
Built-in monitor	Screen size	8.9-type low-temperature polysilicon TFT liquid crystal (clear type)	
	LCD screen (machine body)	1024 x 600 dots, 16.77 million colors Maximum 2048 x 1536 dots, 16.77 million colors (virtual display mode) ^{*3}	
External monitors ^{*4}		800 x 600 – 2048 x 1536 ^{*5} 16.77 million colors	
Sound		Compatible with built-in Chipset AC'97, built-in stereo speakers, internal microphone	
Built-in fax/modem		Max. transmission speed: 56kbps (data receive), 33.6kbps (data send), 14.4 kbps (fax) Compliant with V.90/K56flex standard (auto-change)	
Wireless LAN ^{*6}		Internal (IEEE802.11b/g standard met, WPA supported, Wi-Fi compatible)	
Interfaces		Docking port (also used as external display output connector) ^{*4} /USB(2.0) x 2 ^{*7} /i.LINK (IEEE1394) 4-pin S400 x 1 ^{*8} /LAN connector (10/100BASE-TX) x 1 /Modem jack (RJ-11) x 1 /MIC IN (mini-jack mono) x 1 /Headphone OUT (mini-jack stereo) x 1 /Type-II PC-card slot x 1 (compatible with CardBus) /SD Memory-card slot x 1	
Keyboard	Key pitch	16 mm	
	Key stroke	1.5 mm	
Pointing device		Stick type	
Drive	Formats supported	CD	CD-DA, CD-ROM, CD-RW, CD-R, CD-ROM XA (excluding ADPCM), PhotoCD ^{*9} (multi-session), VideoCD ^{*10} , CD-Extra (CD+), CD-text ^{*10}
		DVD	DVD-ROM, DVD-Video ^{*11} , DVD-RAM ^{*12} (2.6GB/4.7GB), DVD-R, DVD-RW (Ver.1.1) (Multi Border supported)
	Reading speed	DVD-ROM	Max. 8x CAV (1 level)
		CD-ROM	Max. 24x CAV
	Writing speed	CD-R	Max. 24x zoned CLV
		CD-RW	4x CLV
	High Speed CD-RW	10x CLV (640 to 700MB discs)	
	Ultra Speed CD-RW	Max. 16x zoned CLV	
Write error prevention function		Buffer underrun prevention function provided	
Power supply		AC adapter or lithium-ion battery packs ^{*13} (provided)	
Power consumption		Max. 46W	
Lithium-ion battery operation ^{*14}		Approx. 5.5 hours (JEITA 1.0)	
Lithium-ion battery charging time ^{*15}		Approx. 180 min. (OFF times), Approx. 290 min. (ON times)	
Dimension with standard battery pack installed		235 mm (W) x 43.2 mm (H) x 214 mm (D) (9-1/4" (W) x 1-7/10" (H) x 8-7/16" (D))	
Dimension (main unit only)		235 mm (W) x 31.5 mm (H) x 177 mm (D) (9-1/4" (W) x 1-1/4" (H) x 7" (D))	
Weight with battery pack installed		Approx. 1470 g (3 lbs 4 oz)	
Weight (main unit only)		Approx. 1135 g (2 lbs 8 oz)	
Operating temperature		5°C to 35°C (41°F to 95°F)	
Storage temperature		-20°C to 50°C (-4°F to 122°F)	
Operating humidity		35% to 80%	
Main accessories		Lithium-ion battery pack, AC adapter, application CD-ROMs x 3 ^{*16} instruction manual, External display cable, modem cable, stick cap x 2	

*1 The hard disk capacity is given as a multiple of 1GB which is taken to be the equivalent of one billion bytes. Bear in mind that if a method of calculation where 1MB defined as being equivalent to 1024KB is used, the resulting number of bytes will differ from the above hard disk specification. For the partitions, approximately 2.6GB (which cannot be used by the user) are pre-assigned as the recovery area, approximately 15GB are assigned to drive C, and the rest of the memory is assigned to drive D.

- *2 The video memory of 8MB to 64MB is automatically assigned from the main memory depending on the PC's operating conditions. For this reason, it cannot be changed manually.
- *3 This is achieved by the dithering function.
- *4 The external display cable is required for the connection with the external monitor. Depending on the external monitor used, some modes may not be displayed.
- *5 Displayed on the external monitor only.
- *6 The channels which can be used by this wireless LAN are 1 to 11 (b/g mode). An access point is required in addition if the wireless LAN is to be used to connect to a LAN system or the Internet. Use a Wi-Fi certified unit.
- *7 Not all operations of USB-support devices are guaranteed.
- *8 Not all operations of i.LINK-support devices are guaranteed.
- *9 A special software program must be obtained separately to use these discs.
- *10 These discs can be played by using the provided software.
- *11 DVD-Video discs which can be played are ones bearing the play-enabled region code  (or which includes 1) or . To play ones bearing any other region code, the region code setting must be changed. With some DVD-Video discs, some frames will be lost.
- *12 Only DVD-RAM discs which can be removed from cartridges or which do not come with cartridges and which support the UDF format can be played.
- *13 The lithium-ion battery is a consumable.
- *14 The battery operation times are the values measured in the power saving mode; they vary depending on the setup or usage.
- *15 While the PC is being used, the battery charging time may take up to 1.5 times as long as the value given here.
- *16 These CD-ROMs are required to re-install the software provided with the PC. They do not contain the operating system. The data on these disks can be installed in this PC only.

Wireless LAN Specifications

Wireless frequency band	IEEE802.11g/IEEE802.11b (wireless LAN standard compatibility protocol) standards met, ARIB STD-T66 (2.4GHz band low-power data communication systems standard)
Modulation system	Direct Sequence Spread Spectrum (DS-SS system), Orthogonal Frequency Division Multiplexing modulation (OFDM system), half-duplex
Spread spectrum system	[IEEE802.11g/b]: 2.412 to 2.462 GHz (11 channels)
Rated output	[IEEE802.11g]: 6, 9, 12, 18, 24, 36, 48 or 54 Mbps [IEEE802.11b]: 1, 2, 5.5 or 11 Mbps
Communication distance	128 (104)/64 (40) bit WEP, IEEE802.1x/EAP (MD5/TLS/TTLS/PEAP), WPA

Note: There is a correlation between the communication distance of a wireless device and its communication speed: The lower the communication speed of the wireless communication, the further the communication distance. Furthermore, the communication distance is susceptible to the effects of the ambient environment, and it may be reduced in the following cases.

- Inside condominiums and other reinforced concrete structures, houses in which metal is used in the building construction materials
- Near large pieces of furniture, etc. made of metal

AC Power Adapter (MP-ACX2)

Input Voltage	AC 100 to 240 V 1.5 A 50/60Hz
Output Voltage	DC 19 V 2.64 A

Caution: The AC Power Adapter and dedicated AC Cable included with this PC are designed for use with the MP-XV841US only.

Do not use them for any other PC. Otherwise, they may cause a fire or electric shocks.

Options (separately available)

Option name	Model
Lithium-ion battery pack	BN-LL23E
Port replicator	MP-DPX1E