

2000

XP



Personal Computer

OPERATING INSTRUCTIONS

Model No. CF-R1 Series

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[Additional Manual] **Reference** Manual

This manual can be accessed on your computer. Referto page 18 on how to access the Reference Manual.

Getting Started

Please read these instructions carefully before using this product and save this manual for future use.

Model No.	CF-R1P82ZVQM	Dealer's Name	
Serial No.			
or		=	
Code No.	·	Dealer's Address	

Introduction

Thank you for purchasing the Panasonic computer. Read the operating instructions thoroughly for proper operation of your new computer.

Illustrations in this Manual

NOTE:	NOTE provides a useful fact or helpful information.
CAUTION:	CAUTION indicates a condition that may result in minor or moderate injury.
WARNING:	WARNING indicates a hazard that may result in moderate or serious injury.
(Windows2000) :	Information for Microsoft Windows [®] 2000 Professional users.
(Windows)XP)	Information for Microsoft Windows® XP Professional users.
(Enter) :	This illustration means to press the [Enter] key.
(Fn) + (F5) :	This illustration means to press and hold the [Fn] key, then press the [F5] key.
[Start]* - [Run]:	This illustration means to click [Start]*, then to click [Run].
. .	(For some applications, you may need to double-click.)
	* (Windows)XP): [start]
(]]:	Where to go for referred information.
Reference :	This illustration means to refer to the Reference Manual, which is available on your computer.
	Refer to page 18 on how to access this manual.
• Windows 2000 sc	reens are used in this manual when no specific OS notes are required.
• Some of the illust	rations in this manual may differ slightly in shape from the actual items in order to make the explana-

tion easier to understand.

(NOTE

If the user has logged on without the administrator authority, some functions may not be executable, and some screens may not be displayed as shown in this manual. If this happens, log on with the administrator authority to enable these functions.

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For U.S.A.

Federal Communications Commission Radio Frequency Interference Statement

Note: 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 Panasonic Service Center or an experienced radio/TV technician for help.

Warning

To assure continued compliance, use only shielded interface cables when connecting to a computer or peripheral. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC RF Exposure Warning: This computer is provided with PC Card slots that could be used with wireless transmitter(s), which will be specifically recommended, when they become available. Other third-party wireless transmitter(s) have not been RF exposure evaluated for use with this computer and may not comply with FCC RF exposure requirements.

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

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

Responsible Party: Matsushita Electric Corporation of America One Panasonic Way Secaucus, NJ 07094 Tel No:1-800-LAPTOP-5 (1-800-527-8675)

FCC Regulation Notice for modem This equipment contains a FCC approved modem.

Manufacturer of modem: AMBIT Microsystems Corporation Model No. J07M040.00

FC Tested To Comply With FCC Standards FOR HOME OR OFFICE USE

1. This equipment complies with Part 68 of the FCC rules. On the computer is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If required, this information must be provided to the telephone company.

- 2. An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See Installation Instructions for details.
- 3. The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all area, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.
- 4. If your telephone equipment cause harm to the telephone network, the telephone company will notify you in advice that temporary discontinuance of service may be required. But if advice notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.
- 5. The telephone company may take changes in it's facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.
- 6. If trouble is experienced with this equipment, for repair or warranty information, please contact Matsushita Electric Corporation of America at DIAL TOLL FREE 1-800-LAPTOP5 (1-800-527-8675). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.
- 7. There are no user serviceable parts contained in this equipment.
- This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.
- 9. The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entry, or other individual sending the message and the telephone number of the sending machine or such business, other entity, or individual. In order to program this information into your fax software, you should refer to the manual of the Fax software being used.
- 10.According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrestor in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources and that this is a major nationwide problem.

"Caution: To reduce the risk of fire, use only No.26 AWG or larger telecommunication line cord."

"ATTENTION: Pour réduire le risque d'incendie, utiliser uniquement des conducteurs de télécommunications 26 AWG ou de section supérieure."

Notice for the products using LCD

This product uses one or more fluorescent lamps containing 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/

For Canada

Industry Canada (IC) Notice for modem

This equipment contains an Industry Canada approved modem unit. The Industry Canada label is affixed on the modem unit.

EQUIPMENT ATTACHMENT LIMITATIONS

"NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate."

"NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.'

RESTRICTIONS CONCERNANT LE RACCORDEMENT DE MATÉRIEL

"AVIS: L'étiquette d'Industrie Canada identifie le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de télécommunication. Le matériel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la conformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'il y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales. Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à un service d'inspection des installations électriques, ou à un électricien, selon le cas.'

"AVIS: L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de touts les dispositifs n'excède pas 5."

REN: See bottom of the computer

Important Safety Instructions / Importantes Mesures De Sécurité

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- 1. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- 2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- 3. Do not use the telephone to report a gas leak in the vicinity of the leak.
- 4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

IES: Voir sous le fond de l'ordinateur

Certaines mesures de sécurité doivent être prises pendant l'utilisation de matérial téléphonique afin de réduire les risques d'incendie, de choc électrique et de blessures. En voici quelquesunes:

- 1. Ne pas utiliser l'appareil près de l'eau, p.ex., près d'une baignoire, d'un lavabo, d'un évier de cuisine, d'un bac à laver, dans un sous-sol humide ou près d'une piscine.
- 2. Éviter d'utiliser le téléphone (sauf s'il s'agit d'un appareil sans fil) pendant un orage électrique. Ceci peut présenter un risque de choc électrique causé par la foudre.
- 3. Ne pas utiliser l'appareil téléphonique pour signaler une fuite de gaz s'il est situé près de la fuite.
- 4. Utiliser seulement le cordon d'alimentation et le type de piles indiqués dans ce manual. Ne pas jeter les piles dans le feu: elles peuvent exploser. Se conformer aux règlements pertinents quant à l'élimination des piles.

CONSERVER CES INSTRUCTIONS

Lithium Battery

Lithium Battery!

This computer contains a lithium battery to enable the date, time, and other data to be stored. The battery should only be exchanged by authorized service personnel.

Warning! A risk of explosion from incorrect installation or misapplication may possibly occur.

Pile au lithium!

Le micro-ordinateur renferme une pile au lithium qui permet de sauvegarder certaines données comme la date et l'heure notamment. Elle ne devra être remplacée que par un technicien qualifié.

Avertissement! Risque d'explosion en cas de non respect de cette mise en garde!

Precautions

Usage

Avoid Extreme Heat and Cold

Do not store or use the computer in locations exposed to heat, direct sunlight, or extreme cold. Avoid moving the computer between locations with large temperature difference. Operation: 5 °C to 35 °C {41 °F to 95 °F}

-20 °C to 60 °C {-4 °F to 140 °F}



Avoid Direct Sunlight on the LCD Panel

The LCD panel should not be exposed to direct sunlight or ultraviolet light.



Avoid Humidity, Liquids and Dust

Do not store or use the computer in locations exposed to high humidity, liquids (including rain) or dust.

Prevent Shock

Avoid subjecting the computer to severe vibrations or impact. Do not place the computer inside a car trunk.

Avoid Radio Frequency Interference

Do not place the computer near a television or radio receiver.

Avoiding low-temperature burns

Avoid more than casual contact with any heat producing area of the notebook computer, AC adaptor, and any option or accessory you use with it. Even low heat, if warmer than body temperature, can cause a burn, if the skin is exposed to the heat source for a long enough period of time.



Avoid Magnetic Fields

Keep the computer away from magnets. Data stored on the hard disk may be lost.

Avoid Stacking

Do not place heavy objects on top of the computer.

Keep Small Objects Away

Do not insert paper clips or other small objects into the computer.



Do Not Disassemble the Computer

Do not attempt to disassemble your computer.



Avoid Excessive Force on the Display

Do not apply excessive downward force on the display.

Peripherals

Incorrectly using peripheral devices may lead to a decrease in performance, an increase in temperature and/or damage your computer. For more information on peripheral devices, refer to the Reference Manual.

Cables

Use of an interface cable longer than 3 m (9.84 feet) is not recommended. 5









Precautions (Battery Pack)

 Care should be exercised with regard to the following in order to avoid the possibility of overheating, fire or damage.



Avoid Heat

Do not throw the battery pack into a fire or expose it to excessive heat.



Keep Articles Away

Do not place the battery pack together with articles such as necklaces or hairpins when carrying or storing.



Do Not Disassemble

Do not insert sharp objects into the battery pack, expose it to bumps or shocks, deform, disassemble, or modify it.



Do Not Short

Do not short the positive (+) and negative (-) contacts.



Avoid Extreme Heat, Cold and Direct Sunlight

Do not charge, use or leave the battery pack for extended periods where it will be exposed to direct sunlight, in a hot place (in a car on a sunny day, for example), or in a cold place.



Do Not Use With Any Other Computer

The battery pack is rechargeable and was intended for the specified computer. Do not use it with a computer other than the one for which it was designed.



Do Not Put into a Microwave

Do not put the battery pack into a microwave oven or a pressurized chamber.



Stop Using

Should the battery emit an abnormal odor, become hot to the touch, become discolored, change shape, or become in any way different from normal, remove it from the computer and stop using it.

- Do not touch the terminals on the battery pack. The battery pack may no longer function properly if the contacts are dirty or damaged.
- Do not expose the battery pack to water, or allow it to become wet.

- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining power is less than approx. 95% of capacity.
- The battery pack is not charged when the computer is first purchased. Be sure to charge it before using it for the first time. When the AC adaptor is connected to the computer, charging begins automatically.
- Should the battery leak and the fluid get into your eyes, do not rub your eyes. Immediately flush your eyes with clear water and see a doctor for medical treatment as soon as possible.

NOTE

- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (0 °C to 55 °C { 32°F to 131 °F}).(Reference "Battery Power") Once the allowable range requirement is satisfied, charging begins automatically. Note that the recharging time varies based on the usage conditions. (Recharging takes longer than usual when the temperature is 10 °C { 50 °F} or less.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- The battery pack is a consumable item. If the amount of time the computer can be run off a particular battery pack becomes dramatically shorter and repeated recharging does not restore its performance, the battery pack should be replaced with a new one.
- When transporting a spare battery inside a package, briefcase, etc., it is recommended that it be placed in a plastic bag so that its contacts are protected.
- Always power off the computer when it is not in use. Leaving the computer on when the AC adaptor is not connected will exhaust the remaining battery capacity.

6

Saving Data on the Hard Disk

- Do not expose your computer to shock. Use care when handling your computer, shock may damage your hard disk or make your software applications and data unusable.
- Do not power off your computer while software applications are running or hard disk drive indicator (😑) is on.

Properly shut Windows* down to avoid problems.

- Save all valuable data to disks. Backing up data to disks will limit damage should trouble occur to your computer or should you inadvertently change or erase data.
- Use the security function for all important data. (Reference "Security Measures" and "SD Memory Card/MultiMedia Card")
- * Windows 2000 : This computer uses Microsoft[®] Windows[®] 2000 Professional. Windows XP. : This computer uses Microsoft[®] Windows[®] XP Professional.

_┌Hard-Disk-Lock┐

When the Hard Disk Lock is set to [Enable], it is impossible to read/write data from/to the hard disk when the hard disk is installed in a different computer, since a password is also set for the hard disk. When the hard disk is returned to the original computer, you can read/write data as before. In this case, however, make the settings in the Setup Utility exactly the same as they were before the hard disk was removed. (Note that this Hard Disk Lock does not guarantee the complete protection of data.) (Reference "Security Measures")

Computer Viruses

Users are advised to purchase the latest versions of virus protection software and use them regularly. We recommend you run the software:

• When booting your computer.

After receiving data.

We recommend that you check data received on disks or from external sources, such as data downloaded from the Internet, e-mail, etc. (For compressed files, uncompress them before running a check).

When Using Peripheral Devices

Pay strict attention to the following points to avoid damage to the computer, peripheral devices, cables, etc. Also, in addition to following this manual, carefully read the instruction manuals for the peripheral devices being used.

- Connect the devices properly, paying close attention to the condition and position of the connectors.
- If a connection cannot be made easily, do not apply undue force; check once more to confirm the condition and position of the connector (alignment of pins, etc.).
- If the connector has holding screws, fasten the screws firmly.
- Do not carry the computer with cables attached, and do not pull on the cables forcefully.

When Disposing of or Transferring Ownership of This Device

When disposing of or transferring ownership of this device, erase all data on the hard disk in order to prevent the theft of hard disk data. Even if you delete data or initialize the hard disk through normal Windows commands, data can still be read using special software. In order to erase all data, either have the data erased by a specialist (at a charge) or use special software.

Also note that transferring ownership of this device without deleting software from the hard disk may violate software user's licenses.

Read Me First



Apply camera lens cleaner on a soft gauze and clean it with gentle force. Then, wipe with a dry soft cloth used for cleaning glasses.

Areas excluding the display

Wipe these areas with a soft cloth, after applying water or detergent diluted with water to the soft cloth and firmly wringing out excess water.

(CAUTION)--

• Do not use benzene, thinner, or rubbing alcohol. Doing so may adversely affect the surface, e.g., discoloration. In addition, do not use commercially-available household cleaners and cosmetics, as they may contain components harmful to the surface.

• Do not directly add or spray water or detergent. If liquid enters the inside of the computer, it may cause it to work improperly or be damaged.

First-time Operation

Read the steps below to help you learn what parts are included, and to gain an understanding of some basic computer-related operations.

Confirm the inclusion of all parts

Make sure the parts shown in the figure have been supplied. If any of these items are missing or is not working properly, contact Panasonic Technical Support.



2 Read the LIMITED USE LICENSE AGREEMENT (Gprage 26)

Before removing the seal covering the power switch, read the LIMITED USE LICENSE AGREEMENT.

3 Insert the battery pack

Make sure the battery pack is facing the correct direction, slide it in the direction of the arrow, and then check to ensure that the battery pack is held firmly by the latches on the left and right sides, which indicates that it is securely inserted.

CAUTION

- Be sure the battery pack is properly connected to the connector.
- Do not touch the terminals on the battery pack and the computer. The battery pack may no longer function properly if the contacts are dirty or damaged. Also, the computer may not operate properly.



Battery Pack

First-time Operation







4 Open the display

- (1) Slide the latch located at the front.
- (2) Lift open the display.

CAUTION

Do not open the display wider than necessary (150° or more).

5 Connect your computer to a power outlet

CAUTION

- Be sure the AC adaptor is connected until completing Step 9 on page 12.
- When using the computer for the first time, do not connect any peripheral device except the battery pack and AC adaptor to the computer.

Handling the AC adaptor

- Do not twist or pull the AC power cord forcefully. Doing so may damage the connections.
- Use only the specified AC adaptor with your computer. Using an AC adaptor other than the one supplied might damage the battery and/or the computer.
- When the DC plug is not connected to the computer, disconnect the AC cord from your AC wall outlet.
- Problems such as sudden voltage drops may arise during periods of thunder and lightning. Since this could adversely affect your computer, an uninterruptible power source (UPS) is highly recommended unless running from the battery pack alone.

6 Turn your computer on

Slide the power switch and hold it for approximately one second until the power indicator turns on before releasing it.

CAUTION

- Do not slide the power switch repeatedly.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.

7 Select the Operating System

Windows 2000 and Windows XP are preinstalled on this computer. After one of them is selected with the following procedure, only that Operating System can be used.

- (1) At the screen for the agreement of the selection of the Operating System, select [Y].
- (2) With the number keys, select either Windows 2000 or Windows XP.
- (The selection of the Operating System is only performed the first time the computer is started up. A change cannot be made after the selection.)
- (3) At the confirmation message, select [Y]. The Operating System preparation will start, during which the computer will restart.

CAUTION

Do not touch the keyboard. If you accidentally touch the keyboard and the cancel confirmation menu is displayed, do not cancel.

(4) When the screen indicating the completion of the Operating System preparation is displayed, press any key. The computer will restart.



$m{8}$ Setup Windows

Moving the cursor (c_{γ}) or clicking buttons can be performed with the touch pad (c_{γ} page 17). (White busy 2000)

-(CAUTION)

Do not press any key or move the touch pad until [Windows 2000 Professional Setup] is displayed.

- (1) At the [Welcome to the Windows 2000 Setup Wizard], select [Next].
- (2) After reading the agreement, select [I accept this agreement] or [I don't accept this agreement] and then select [Next].

NOTE

If [I don't accept this agreement] is selected, the Windows setup will be aborted.

- ③ Select settings for your region and then select [Next].
- (4) Enter your name and organization and then select [Next].
- (5) Enter your computer name and administrator password and then select [Next].

(CAUTION)

Remember this password! If the password is forgotten, Windows 2000 cannot be operated.

- (6) Enter the correct date, time and the time zone, then select [Next].
 You can also complete these settings at a later time.
- (7) At the [Networking Settings], select [Typical settings] and then select [Next].
- (8) At the [Workgroup or Computer Domain], select [No, this computer is not on a network, or is on a network without a domain] and then select [Next]. The computer will restart.
- (9) At the [Welcome to the Network Identification Wizard], select [Next].
- (1) At the [Users of This Computer], select [Users must enter a user name and password to use this computer] and then select [Next].
- 1 Select [Finish].
- (2) Enter your administrator password and then select [OK].

(Windows)XP)

(CAUTION)

Do not press any key or move the touch pad until [Windows XP Professional Setup] is displayed.

- (1) At the [Welcome to the Windows XP Setup Wizard], select [Next].
- (2) After reading the agreement, select [I accept this agreement] or [I don't accept this agreement], then select [Next].



If [I don't accept this agreement] is selected, the Windows setup will be aborted.

- (3) Select settings for your region, then select [Next].
- (4) Enter your name and organization and then select [Next].
- (5) Enter your computer name and administrator password and then select [Next].

CAUTION

Remember this password! If the password is forgotten, Windows XP cannot be operated (page 13).

- (6) Enter the correct date, time and the time zone, then select [Next].You can also complete these settings at a later time.
- (7) At the [Networking Settings], select [Typical settings], then select [Next].
- (3) At the [Workgroup or Computer Domain], select [No, this computer is not on a network, or is on a network without a domain], then select [Next]. The computer will restart.
- (9) Enter your administrator password and select 🔂.

<When using a PC Card-compatible CD drive for reinstalling> Create Backup Disks for reinstallation

To create backup disks, the floppy disk drive (CF-VFDU03) and formatted 2HD floppy disks are needed.

(1) Connect the USB floppy disk drive to your computer.



The floppy disk drive must be the A drive.

(2) Prepare 2HD floppy disks and make sure they are not in the write-protected state, and then set it.

3 (Windows 2000)

Select [Start] - [Programs] - [Panasonic] - [Create Backup Disk] and follow the on-screen instructions.

(Windows)XP)

Select [start] - [All Programs] - [Panasonic] - [Create Backup Disk] and follow the on-screen instructions.

4 Place a label identifying the contents on each disk.

• Name of created backup disk

FIRSTAID FD (When the display for creating the UPDATE FD is shown, create the disk by following the on-screen instructions.)

CAUTION

- Store the floppy disks in a safe place. They will enable you to return your computer to close to the condition at the time of purchase should any problems occur. When creating backup disks, do not run any other application program.
- When creating backup disks and the message [Insufficient files to copy] is displayed, select [OK] and then contact Panasonic Technical Support.
- While the floppy disk drive indicator is on, do not remove the floppy disk, power off your computer or use the standby or hibernation function (Reference Manual "Standby/Hibernation Functions").
- Be sure to create the backup disk.
- If a backup disk is not created, it will be impossible to return the computer to its original state. In this case, contact Panasonic Technical Support.



Label on the top surface, and insert the shutterside headfirst.

USB Floppy Disk Drive

Setup-the_SD-MovieStage_

Select [Start]* - [Run] and input [c:\util\sdmovie\setup.exe], then select [OK].

* Windows XP. : [start]

Follow the on-screen instructions.



- At [Choose Destination Location], do not change the destination folder.
- At [Select the Video System], select [NTSC].

Information-for-Windows-XP-

• You can select Classic view for the Control Panel or select the Classic Start menu. You can also change the way a user logs on or off.

The procedure in this manual uses the method or view of the Windows XP default setting (not Classic view or Classic Start menu etc.).

• Resetting the password

Windows XP has a function to reset a forgotten password.

To use this function, you need to create a password reset disk beforehand following the steps below.

- 1 Connect the USB floppy disk drive.
- 2 Select [start] [Control Panel] [User Accounts] and select the account you used to logon.
- **3** Select [Prevent a forgotten password] from the [Related Tasks] menu and create a password reset disk following the on-screen instructions.

Store the password reset disk in a safe place.



Only the logon password for each account can be reset. The password set in the Setup Utility cannot be reset.

Recovery Console

If you install the Recovery Console, you can use the command prompt to execute operations such as CHKDSK in cases where, for example, Windows XP will not start. Use the following procedure to install Recovery Console. This procedure allows you to select Recovery Console as a startup option during startup.

- 1 Select [start] [Run] and input [c:\windows\i386\winnt32.exe /cmdcons], then select [OK].
 - Follow the on-screen instructions.
- **2** Select [start] [Run] and input [c:\util\msupdate\q308402\q308402_ wxp_spl_x86_enu.exe], then select [OK].

Follow the on-screen instructions.

(NOTE)

- For an overview of Recovery Console, refer to [Help and Support].
- 1 Select [start] [Help and Support].
- 2 Enter "Recovery Console" under [Search], then select 🔂.
- Depending on the Windows settings, installed applications, and drivers, menus and other displays may differ, or some functions (such as use of the password reset disk) may be inoperable. Check with your system administrator for details.

Starting Up/Shutting Down

Starting Up





Power Indicator (1)

Open the display

- Slide the latch located at the front.
- Lift open the display.



Do not open the display wider than necessary (150° or more).

$m{2}$ Turn your computer on

Slide the power switch and hold it for approximately one second until the power indicator turns on before releasing it.

CAUTION

- After confirming that the power indicator has turned on, avoid the follow-• ing until Windows has completed loading.
 - Connecting or disconnecting the AC adaptor.
 - Touching the power switch.
 - Performing any keyboard, touch pad (or external mouse) operations.
 - Closing the display.
- Once the computer is powered off, you must wait at least ten seconds before powering it on again.
- When the CPU temperature rises, the computer may not power on to prevent the CPU from overheating. Should this happen, allow the computer to cool down then switch the power on again.
 - If the computer still does not power on, contact Panasonic Technical Support.

If security indicator () is displayed,

Enter your password* and press Enter). (Reference "Security Measures")



Supervisor Password or User Password set in the Setup Utility (not the Windows password).

When an application or file that was previously displayed appears on your screen,

the standby or hibernation function (Reference "Standby/Hibernation Functions") has been set.

3 Log on to Windows

(Windows2000)

Wait for 10 seconds after confirming that the hard disk drive access has been completed, input the user name and password, then select [OK]. Until the correct user name and password are entered, the computer will not operate.

(WindowsXP)

Wait for 10 seconds after confirming that the hard disk access has been completed, select the user and input the password, then select 🔂. Until the correct password is entered, the computer will not operate.

4 Select your application

You are able to start working on your computer.

NOTE

• The power saving function is factory set, so if there is no input from a key, the touch pad or an external mouse (when one is connected) for a certain interval of time, the power to the LCD and hard disk may be turned off. The LCD will resume operation when the touch pad or an external mouse (when one is connected) is used or a key is pressed. The power to the LCD may be turned off even when an application software is being installed. In this case, because it is conceivable that a selection dialog box will be shown, do not press **Space** or **Enter** to attempt to resume from this condition as doing so may trigger a selection, but instead, press a key unrelated to the direct triggering of a selection, like **Ctrl**.

In addition, when the computer is left alone, it automatically enters the standby or hibernation mode (frame "Standby/Hibernation Functions"). The computer will resume by sliding the power switch.

Windows XP

- When you create the first new account, you can only select [Computer administrator]. Only the added user account will be displayed in the Welcome screen. The account for the administrator created during Windows setup (when the computer is started up for the first time) will not be displayed.
- When switching to a different user with the Fast User Switching function, it may not be possible to set the settings of the display. In this case, log on with the administrator authority again, not using the Fast User Switching function, and try the operation once more.

Starting Up/Shutting Down

Shutting Down (power off your computer)

This procedure is for shutting down the computer without using the standby or hibernation function.

(Reference "Standby/Hibernation Functions")

Save important data and close each application



$m{2}$ Display the shut down screen

Windows 2000

Select [Start] - [Shut Down]. (Windows)XP)

Select [start] - [Turn Off Computer].



From the keyboard,

You may choose to press (\mathbf{m}) , and then select the menu with $(\mathbf{\uparrow})$ or $(\mathbf{\downarrow})$.

$m{3}$ Confirm shut down

(Windows2000)

Select [Shut down], then select [OK].

(Windows)XP)

Select [Turn Off].

Your computer will power off automatically.

Restarting your computer (without shutting down) (Windows 2000)

Select [Restart], then select [OK].

(Windows)XP)

Select [Restart].



Do not do the following during the shutdown/restart procedure.

- · Connecting or disconnecting the AC adaptor.
- Touching the power switch.
- · Performing any keyboard, touch pad (or external mouse) operations.
- Closing the display.

NOTE

To quickly resume computer operation after shutting down,

The standby or hibernation function is available. (Reference "Standby/Hibernation Functions")

Touch Pad

Work Surface

Left Button

Use the touch pad to move the cursor on the display and perform normal computer operations.

NOTE

By design the touch pad is to be used with a finger tip only. Therefore, do not use any other type implement on the touch pad, i.e. stylus, pen, or pencil eraser.

ice	Function	Touch Pad Operation
	Moving the Cursor	Move the tip of your finger lightly over the surface.
Right Button	Tapping/Clicking	or tapping
ı	Double-Tapping/ Double-Clicking	or double-tapping
	Dragging	or Two quick taps, but on the second tap leaving your fin- ger down (applying pres- sure) and moving it on the work surface.
	Scroll	Trace the circumference work surface.



Handling-the-Touch Pad

- Do not place any object on the work surface or press down forcefully with sharp-pointed objects (e.g., nails) or hard objects that can leave marks (e.g., pencils and ball point pens).
- Try to avoid having any harmful substances such as oil, come in contact with the touch pad. The cursor may not work properly in such cases.
- When the touch pad becomes dirty: Wipe to remove dirty areas by using a dry soft cloth such as gauze or a soft cloth first applied with detergent diluted with water and then thoroughly wrung. Do not use benzene, thinner, or disinfectant-type alcohol.

The Reference Manual can be accessed on your computer. When a printer is connected, the Reference Manual can also be printed. This manual explains functions for you to make greater use of the computer, such as how to add peripheral devices, how the Setup Utility works and other useful information.

-Run-the Reference Manual

1 Turn your computer on

Windows2000)

Select [Reference Manual] in [Start] - [Programs] - [Panasonic] - [On-Line Manuals]

Select [Reference Manual] in [start]

When the Reference Manual is started up for the first time, the License Agreement of the Acrobat Reader will be displayed. After reading the agreement, select [Accept] to access the Reference Manual.



NOTE

- Illustrations may be difficult to view depending on the magnification. If this is the case, we recommend that the display be magnified.
- The characters in PDF files (such as the Reference Manual) may be difficult to read depending on the Acrobat Reader settings and the Windows Desktop settings. In such cases, change the Acrobat Reader settings with the following procedure.
 1 Start up Acrobat Reader.
 - 2 Select [Edit] [Preferences] [Accessibility], and then set [Color Scheme] to [Use colors specified in document].
- When the taskbar is hidden at the bottom portion of Acrobat Reader, set the maximum display window size.
- If a printer is connected, we recommend printing pages. The illustrations and display samples may not print with a high quality.

(Windows XP)

• When switching to a different user with the Fast User Switching function, PDF files may not be printed properly. In this case, log on with the administrator authority again, not using the Fast User Switching function, and try the operation once more.

Operation

List of Error Codes

The following is a list of the messages that BIOS can display. Most of them occur during POST. Some of them display information about a hardware device, e.g., the amount of memory installed. Others may indicate a problem with a device, such as the way it has been configured. Following the list are explanations of the messages and remedies for reported problems.

If your system displays any of the below error messages other that the ones marked with an asterisk (*), write down the message and contact Panasonic Technical Support. If your system fails after you make changes in the Setup menus, reset the computer, enter Setup and install Setup defaults or correct the error.

0200 Failure Fixed Disk

Fixed disk in not working or not configured properly. Check to see if fixed disk is attached properly. Run Setup. Find out if the fixed-disk type is correctly identified.

0210 Stuck key

Stuck key on keyboard.

0211 Keyboard error

Keyboard not working.

0212 Keyboard Controller Failed

Keyboard controller failed test. May require replacing keyboard controller.

0213 Keyboard locked - Unlock key switch

Unlock the system to proceed.

0230 System RAM Failed at offset : nnnn

System RAM failed at offset nnnn of the 64k block at which the error was detected.

0231 Shadow RAM Failed at offset : nnnn

Shadow RAM failed at offset nnnn of the 64k block at which the error was detected.

0232 Extended RAM Failed at offset : nnnn

Extended memory not working or not configured properly at offset nnnn.

0250 System battery is dead - Replace and run SETUP

The CMOS clock battery indicator shows the battery is dead. Replace the battery and run Setup to reconfigure the system.

*0251 System CMOS checksum bad • Default configuration used

System CMOS has been corrupted or modified incorrectly, perhaps by an application program that changes data stored in CMOS. The BIOS installed Default SETUP Values. If you do not want these values, enter Setup and enter your own values. If the error persists, check the system battery or contact Panasonic Technical Support.

0260 System timer error

The timer test failed. Requires repair of system board.

0270 Real time clock error

Real-time clock fails BIOS test. May require board repair.

*0280 Previous boot incomplete - Default configuration used

Previous POST did not complete successfully. POST loads default values and offers to run Setup. If the failure was caused by incorrect values and they are not corrected, the next boot will likely fail. On systems with control of **wait states**, improper Setup settings can also terminate POST and cause this error on the next boot. Run Setup and verify that the wait-state configuration is correct. This error is cleared the next time the system is booted.

0281 Memory Size found by POST differed from EISA CMOS

Memory size found by POST differed from EISA CMOS.

02B0 Diskette drive A error

02B1 Diskette drive B error

Drive A: or B: is present but fails the BIOS POST diskette tests. Check to see that the drive is defined with the proper diskette type in Setup and that the diskette drive is attached correctly.

02B2 Incorrect Drive A type - run SETUP

Type of floppy drive A: not correctly identified in Setup.

02B3 Incorrect Drive B type - run SETUP

Type of floppy drive B: not correctly identified in Setup.

02D0 System cache error - Cache disabled

Contact Panasonic Technical Support.

02F0: CPU ID:

CPU socket number for Multi-Processor error.

02F4: EISA CMOS not writable

ServerBIOS2 test error: Cannot write to EISA CMOS.

List of Error Codes

02F5: DMA Test Failed

ServerBIOS2 test error: Cannot write to extended DMA (Direct Memory Access) registers.

02F6: Software NMI Failed

ServerBIOS2 test error: Cannot generate software NMI (Non-Maskable Interrupt).

02F7: Fail - Safe Timer NMI Failed

ServerBIOS2 test error: Fail-Safe Timer takes too long.

device address Conflict

Address conflict for specified device.

Allocation Error for: device

Run ISA or EISA Configuration Utility to resolve resource conflict for the specified device.

Failing Bits : nnnn

The hex number numn is a map of the bits at the RAM address which failed the memory test. Each 1 (one) in the map indicates a failed bit. See error 230,231 or 232 for offset address of the failure in System, Extended or Shadow memory.

Invalid System Configuration Data

Problem with NVRAM (CMOS) data.

I/O device IRQ conflict

I/O device IRQ conflict error.

Operating System not found

Operating system cannot be located on either drive A: or drive C:. Enter Setup and see if fixed disk and drive A: are properly identified. Parity Check 1 nnnn

Parity error found in the system bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????. Parity is a method for checking errors in binary data. A parity error indicates that some data has been corrupted.

Parity Check 2 nnnn

Parity error found in the I/O bus. BIOS attempts to locate the address and display it on the screen. If it cannot locate the address, it displays ????.

Press <F1> to resume, <F2> to Setup

Displayed after any recoverable error message. Press <F1> to start the boot process or <F2> to enter a Setup and change the settings. Write down and follow the information shown on the screen.

Dealing with Problems (Summary)

When a problem occurs, refer to this page. The "Reference Manual" also contains detailed information. If a problem appears to be related to a software application, read the software related manual. If you still cannot troubleshoot the problem, contact Panasonic Technical Support.

Starting Up

The power indicator or bat-	• Check the cable connection for the AC adaptor.
tery indicator is not lit	• Check to see if a fully charged battery is properly installed.
	• Remove the battery pack and disconnect the AC adaptor, then connect them again.
is displayed	Input your password. If you have forgotten it, contact Panasonic Technical Support.
POST Startup Error(s) is	(page 19
displayed	
Windows startup, or an op-	• Press F9 in the Setup Utility (Reference "Setup Utility"). This will restore the Setup
eration is extremely slow	Utility's settings to their default values (except the password settings). Then, the Setup
	Utility must be run once again for you to input the appropriate operating environment
	settings. (The processing speed depends on the application software used, so this opera-
	tion may not cause the processing speed to increase.)
	• If operations slow down during streaming playback, try changing the number of colors.
The date and time are incor-	• You can set the date and time using the following menu:
rect	(Windows/2000) : [Control Panel] - [Date/Time]
	(Windows XP) : [Control Panel] - [Date, Time, Language, and Regional Options] - [Date and Time]
	• If you continue to experience problems, the internal battery maintaining the clock may
	need to be replaced. Contact Panasonic Technical Support.
	• When the computer is connected to a LAN, confirm the date and time of the server.
	• This computer will not correctly recognize the date and time starting from the year 2100
	A.D.
When resuming from the	Use the Windows password as follows:
standby or hibernation	(Windows/2000)
mode, 🔛 does not appear	Set the password in [Control Panel] - [Users and Passwords], then add the check mark for
even if a password has been	[Prompt for password when computer goes off standby] in [Control Panel] - [Power Op-
set in the Setup Utility	tions] - [Advanced].
	Select the account to change in [Control Panel] - [User Accounts] and set the password, then
	add the check mark for [Prompt for password when computer resumes from standby] in
	[Control Panel] - [Performance and Maintenance] - [Power Options] - [Advanced].
When the administrator	(Windowsi2000)
password is forgotten	After reinstalling, setup Windows and then set the password again.
	(Windows)XP2)
	If you have created a password reset disk (page 13), a message is displayed when you
	fail to correctly enter the password. Follow the message's instructions and set the password
	again by using the password reset disk.
	If you have not created a password reset disk, after reinstalling, setup Windows and then set
	the password again.
When the previous item is	• Press F9 in the Setup Utility (Reference "Setup Utility"). This will restore the Setup
not the cause	Utility's settings to their default values (except the password settings).
	• Try removing all peripheral devices.
	● (Windows 2000) Click II and Did (Ch) Lith days to be the terms
	Click [Local Disk(C:)] with the right button in [My Computer], select [Properties], then select [Tools] - [Check Now].
	WindowsXP
	Click [Local Disk(C:)] with the right button in [start] - [My Computer], and select [Properties], then select [Tools] - [Check Now].
	• At start-up, press F8 to operate the computer in the safe mode.

Dealing with Problems (Summary)

Display

1

No display after powering on	 When there is no display to an external display, Check your cable connection to the external display. Confirm your display is powered on. Check the settings for your external display. Confirm the following setting is set to [ON]. (Windows 2000) [Control Panel] - [Display] - [Settings] - [Advanced] - [Lynx3DM+] - [CRT] (Windows XP) [Control Panel] - [Appearance and Themes] - [Display] - [Settings] - [Advanced] - [Lynx3DM+] - [CRT] Try changing the display by pressing Fn + F3. When displaying only through an external display, if the computer is shut down by using the standby or hibernation function, there will be no display on the LCD unless the exter-
	nal display is connected when operations are resumed. In this case, connect the external display or press $(Fn) + (F3)$.
The power has not been turned off, but after a cer- tain period of time, there is no display	 Has the computer been set to the power-saving mode? To resume operation of your computer from the condition the power of the display is off (for energy conservation purposes), press any key unrelated to the direct triggering of a selection, like Shift). To save power, your computer may have automatically entered the standby or hiberna- tion mode. (from the condition of the Road") Slide the power switch. There is a possibility that an external display is set as the display destination. Press Fn + F3 to switch the display destination. Did you repeatedly and continuously press Fn + F3 ? Before holding down Fn + F3, make sure the display destination has been com- pletely switched.
The cursor cannot be con- trolled	Restart the computer by using the keyboard (e.g., ()).
An afterimage appears (e.g., green, red, and blue dots remain on the display) or there are dots not display- ing the correct colors	 If an image is displayed for a prolonged period of time, an afterimage may appear. This is not a malfunction. The afterimage will disappear when a different screen is displayed. High-precision and advanced technologies are necessary in the production of color liquid crystal displays (color LCDs). Therefore, if 0.002% or less of the picture elements either fail to light or remain constantly lit (that is, more than 99.998% of elements are functioning properly), no defect is considered to exist.
The external display no longer displays properly	When an external display not compatible with the power saving mode is used with the computer, the external display may no longer display properly when the computer enters the condition the power of the display is OFF (for energy conservation purposes). In such cases, turn off the power to the external display.
The screen becomes disor- dered	Changing the number of colors of the display may affect the screen. Restart the computer.
During simultaneous dis- play, the screen of the exter- nal display becomes disor- dered	Try changing the display by pressing Fn + F3 .
When setting the screensaver, an error may occur during a resume op- eration	When the computer enters the standby or hibernation mode while the screensaver is run- ning, an error may occur during a resume operation. In such cases, turn off the screensaver or try changing the pattern of the screensaver.
When an MPEG file is be- ing played with Media Player, the display destina- tion cannot be switched us- ing (Fn)+(F3)	Set the following setting to [OFF]. (Windows2000) [Start] - [Settings] - [Control Panel] - [Display] - [Settings] - [Advanced] - [Lynx3DM+] - [Stretch] (Windows20) [start] - [Control Panel] - [Appearance and Themes] - [Display] - [Settings] - [Advanced] - [Lynx3DM+] - [Stretch]

Shutting down

Windows cannot be shut	• Do not shut down Windows during music playback.
down or restarted	• If a USB device is connected, try removing it.

Battery Indicator

The red indicator lights Repeated beeping sound while the computer is in use	The battery level is low. Save your data and power off your computer. After connecting the AC adaptor or replacing the battery pack with a fully charged one, turn your computer on.
The red indicator blinks	 The battery pack or recharging function may be defective. Quickly remove the battery pack and disconnect the AC adaptor, then connect them again. If the problem persists, contact Panasonic Technical Support.
The orange indicator blinks	Unable to charge because of an improper temperature range. (3 page 5)

Connecting Peripherals

A USB device does not work	Some USB devices may not operate properly when connected to the right side USB port. In
	this case, try connecting the device to the left side port on the computer.

Reference Manual

D. C. Alexandria	La Associate Decider installed?
The Reference Manual is	
not displayed	If Acrobat Reader is not installed, run [c:\util\reader\ar500enu.exe]*1 in [Start]*2 - [Run] to
1	reinstall the program. When installing the program, do not change the installation destina-
	tion folder. If the destination folder is changed, the Reference Manual cannot be opened
	from the [Start] ^{*2} menu.
	*1 (Windows)XP :[c:\util\reader\ar505enu.exe]
	*2 (Windows)XP :[start]

● Fast User Switching Function (WindowsXP)

Some applications do not	When switching to a different user with the Fast User Switching function, the following
work properly	problems may occur.
	• Some applications may not work properly (for example, PDF files may not be printed
	properly).
	• Key combinations with (Fn) may not work.
	• It may not be possible to set the settings of the display.
	If any of the above occur, log on with the administrator authority again, not using the Fast
	User Switching function, and try the operation once more.

Others

Computer hangs	• Press Ctrl + Shift + Esc to open Task Manager and close the software application
	which is not responding.
	• After cutting the power by sliding the power switch for more than four seconds, slide the
	power switch to power on and open the application again.
1	If the program no longer works normally, delete the program using the following menu:
	(Windows 2000) : [Control Panel] - [Add/Remove Programs]
	(WindowsXP) : [Control Panel] - [Add or Remove Programs]
	Then reinstall the program.

Reinstalling Software

Before Reinstallation

Preparing

- BACKUP DISK(s) created in advance (page 12)
- Product Recovery CD-ROM (included)
- USB floppy disk drive (optional CF-VFDU03)
- CD drive Panasonic KXL-RW10A (PC Card-compatible) or KXL-RW21A (USB) When using a PC Card-compatible CD drive other than the Panasonic KXL-RW10A CD drive: () page 25

(NOTE)

If you have not created the FIRSTAID FD, you can create by using the following menu: (Wintows 2000) : [Create Backup Disk] in [Start] - [Programs] - [Panasonic].

(Windows)XP) : [Create Backup Disk] in [start] - [All Programs] - [Panasonic].

If you can not create this disk, contact Panasonic Technical Support.

Important

- Save all important data. If reinstallation is carried out, all data existing prior to the installation will be lost. The reinstallation will return the computer to the conditions at time of purchase.
- Before the reinstallation procedure, remove all peripherals (except for the CD and floppy disk drive).
- Be sure the AC adaptor is connected until the reinstallation procedure is completed.
- When using the Panasonic KXL-RW10A CD drive, set the switch of the PC Card to 16-bit.

Reinstalling

(CAUTION

- If data on your hard disk is compressed, the data should be uncompressed.
- Do not cancel during reinstalling.
- For users intending to change the partitioning of the hard disk:
 - When reinstalling Windows in the first partition, be sure to create several partitions in advance.
- If several partitions have not been created, all disk space, including space that has not been partitioned, will be allocated to the C drive (the same condition at the time of purchase).
- Do not use the FDISK program that comes as a standard with Windows 95, Windows 98, and Windows 98 Second Edition, as this has been shown to result in an error in the partitioning settings. The following FDISK programs will enable the correct settings:
 - FDISK program that comes as a standard with Windows Me
 - Windows 98 and Windows 98 Second Edition FDISK programs for hard disks that is larger than 64 GB in size*
 - * A patch for correcting the bug in the standard FDISK program has been made available as a free download. For details, please refer to the Microsoft Web Site.

- **1** Turn off the computer.
- 2 Connect the CD drive to the computer.If you are using a USB CD drive, connect it to the USB port on the left side of the computer.

<Only when using the CD drive Panasonic KXL-RW10A>

Connect the floppy disk drive to the USB port of the computer, then set the FIRSTAID FD in the floppy disk drive.

- **3** Turn the computer on.
- 4 When the message [Press F2 to enter SETUP] is displayed, press (F2) and then run the Setup Utility.

If the password has been set, enter the supervisor password.

5 Write down all of the contents of the Setup Utility and then press **F9**.

At the confirmation message, select [Yes] and press **Enter**.

<Only when using the CD drive Panasonic KXL-RW21A>

Select [Boot] menu, then select [USB CD Drive] and press **F6** until [USB CD Drive] is at the top of the [Boot] menu.

6 Set the Product Recovery CD-ROM1 in the CD drive.

7 Press **F10**.

At the confirmation message, select [Yes] and press **Enter**. The computer will reboot, and the License Agreement screen should appear. Select [1. Yes, I agree to the provisions above and wish to continue!].

8 At the screen for the selection of the OS, select either Windows 2000 or Windows XP.

You can reinstall only the initially selected OS.

9 This screen should appear.

Windows 2000

Outration another
Select a number
1. Restore the whole HDD to factory default 2. Restore Windows(R) 2000 Professional to the first partition
3 End

Windows XP)

Select a number

Bostore the whole HDD to factory default

1. Restore the whole HDD to factory default 2. Restore Windows(R) XP Professional to the first partition

3. End

10 Make a selection from the menu.

To restore all contents of the hard disk to factory default, including the partition setting(s):

Select [1. Restore the whole HDD to factory default]. To reinstall Windows 2000/Windows XP to the first partition to factory default:

Select [2. Restore Windows(R) 2000 Professional (or Windows(R) XP Professional) to the first partition].

In such cases, the initial partition size must be 6 GB or more of the hard disk size. Reinstallation cannot be performed with a small partition size.

11 At the confirmation message, press \mathbf{Y} .

The computer will reboot, and the operations of reinstallation for the hard disk start automatically. (The operations take about 30-40 minutes.)

When the message "insert the next CD" is displayed, insert the Product Recovery CD-ROM showing the next number in the sequence, and then select [OK].

(In the case of Windows 2000, only Product Recovery CD-ROMs 1 to 3 can be used.)

NOTE

If the message "The media does not contain the correct file" appears, select [OK]. The message "insert the next CD" will be displayed again.

Confirm that the proper Product Recovery CD-ROM has been inserted by opening the tray of the CD drive and then close the tray, then select [OK].

12 After the reinstallation procedure completes, press Enter. The computer will be shut down. <Only when using the CD drive Panasonic KXL-RW10A>

Remove the FIRSTAID FD.

13 Remove the CD drive, and then turn the computer on.

14 When the message [Press F2 to enter SETUP] is displayed, press F2 and then run the Setup Utility.

If the password has been set, enter the Supervisor Password.

15 Press (F9).

At the confirmation message, select [Yes] and press **Enter**. (The Setup Utility settings will return to their default values. Even the security settings with the exception of the password(s) will return to their default values.) Change the settings where necessary.

16 Press **F10**.

At the confirmation message, select [Yes] and press **Enter**.

17 Perform the setup procedure for Windows by following the instructions on the screen. (page 11)



(2)

When the FIRSTAID FD is to be created, follow the steps in the readme.txt on the disk. (\bigcirc page 12)

<When using a PC Card-compatible CD drive other than the Panasonic KXL-RW10A>

Copy the necessary drivers, from the floppy disk included with your CD drive, to the FIRSTAID FD with the method below. It will be necessary to edit the CONFIG.SYS file and AUTOEXEC.BAT file on the FIRSTAID FD. When editing the AUTOEXEC.BAT file, some CD drives require card managers (card and socket service). See the manual included with your CD drive for further details.

- 1 Start Windows and insert the FIRSTAID FD.
 - (Windows 2000) Select [Start] [Programs] [Accessories] - [Notepad] - [File] - [Open], input [a:\config.sys], then select [Open].
 - Windows XP Select [start] [All Programs] [Accessories] [Notepad] [File] [Open], input [a:\config.sys], then select [Open].

Rewrite the following line and save.
 Delete the following four lines.
 :KXL-RW10A DRIVER
 DEVICE=A:\TOOLS\KMASMGRA.SYS

DEVICE=A:\TOOLS\KMASASPA.SYS DEVICE=A:\TOOLS\KMASCDA.SYS /D:MSCD000

Add the driver of your CD drive.

Device=A:\DRIVER1.SYS_/D:MSCD000

Rewrite this driver for the driver of your CD drive. The driver for the PC Card will also be necessary. Refer to the operation manual that accompanies the CD drive.

Save the file and close [Notepad].

- (4) Copy the CD driver file (i.e., the driver file rewritten in step (3)) of the CD-ROM drive below [a:\] of the FIRSTAID FD.
- (5) Set the floppy disk to the write-protect state.

After this, follow the reinstalling procedure of **<Only when** using the CD drive Panasonic KXL-RW10A>. (@page 24) THE SOFTWARE PROGRAM(S) ("PROGRAMS") FURNISHED WITH THIS PANASONIC® PRODUCT ("PRODUCT") ARE LICENSED ONLY TO THE END-USER ("YOU"), AND MAY BE USED BY YOU ONLY IN ACCORDANCE WITH THE LICENSE TERMS DESCRIBED BELOW. YOUR USE OF THE PROGRAMS SHALL BE CONCLUSIVELY DEEMED TO CONSTITUTE YOUR ACCEPTANCE OF THE TERMS OF THIS LICENSE.

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Names and Functions of Parts



Main Specifications

Model No.			CF-R1P82ZVQM		
CPU			Mobile Intel [®] Pentium [®] III Processor 800 MHz - M supports Intel [®] SpeedStep [™] technology L1 Cache Memory: 32 KB L2 (Second) Cache Memory: 512 KB		
Memory (Expandable to)			128 MB (256 MB Max.)		
Video Mer	nory	,		4 MB	
LCD Type			10.4 type (TFT)		
•	Dis	played Col	ors*1	256/65536/16M colors (640 × 480/800 × 600 dots/1024 × 768 dots)	
External D	Displ	ay		256/65536/16M colors (640 × 480/800 × 600 dots/1024 × 768 dots/1280 × 1024 dots)*2	
Hard Disk	Driv	/e		20 GB*3	
Keyboard				82 keys	
Slots	PC Card Slot			One Type I or Type II	
	Allowable current		able current	3.3 V: 400 mA, 5 V: 400 mA	
	RAM Module Slot		Slot	144-pin, 3.3-V, µ DIMM, SDRAM, PC100 Compliant	
	SD Memory Card Slot		ard Slot	SD memory card/MultiMedia Card	
Interface	External Display Port		lay Port	Dedicated connector (16-pin), VGA conversion cable included	
	Microphone Jack		ack	Miniature jack, 3.5 DIA	
	Headphone Jack		ack	Miniature jack, 3.5 DIA, Impedance 32 Ω , Output Power 4 mW x 2	
	USB Ports			4-pin x 2	
	Modem			RJ-11 jack, Data: 56 kbps (V.90 & K56flex) FAX:14.4 kbps	
	LAN			RJ-45 jack, IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX	
Pointing [Devid	e		Touch Pad	
Sound				WAVE and MIDI playback, Monaural Speaker (built in)	
Battery Pa	ack			Li-ion 7.4 V, 4.4 Ah	
	Op	erating Tim	1e*5	Approx. 6 hours	
	Charging Time*5		e*5	Approx. 3 hours	
	Clock Battery			Coin type lithium battery 3.0 V	
AC Adapt	ог* ⁶	input		100 V - 240 V AC, 50 Hz/60 Hz	
		Output		16 V DC, 2.5 A	
Power Co	nsur	nption*7		Approx. 35 W*8 / Approx. 40 W (maximum when recharging in the ON state)	
Environm	ent	ent In use	Temperature	5 °C to 35°C {41 °F to 95 °F}	
			Humidity	30% to 80% RH (No condensation)	
	ſ	Not in use	Temperature	-20 °C to 60 °C {-4 °F to 140 °F}	
			Humidity	30% to 90% RH (No condensation)	
Physical Dimensions ($W \times H \times D$)		×H×D)	240 mm × 23.5 mm(at the rear)/37.2 mm(at the front) × 183 mm (excluding protrusion) {9.4 " × 0.9 " / 1.5 " × 7.2 "}		
Weight			Approx. 990 g {2.2 lb}		
Operating System*9				Microsoft® Windows® 2000 Professional with Service Pack 2 Security Rollup Package Microsoft® Windows® XP Professional	
Utility Programs				Setup Utility DMI Viewer Adobe® Acrobat® Reader SD Utility SD Movie-Stage	

*1 A 16M color display is achieved by using the dithering function. (Wintersymp): 256 color depth and the resolution of 640 × 480 are not supported.

*2 Maximum resolution depends on the specifications of the external display. (WindowsXP): 256 color depth and the resolution of 640 × 480 are not supported.

*3 1GB = 109 bytes

*4 Only a RAM card designed for PC100 can be added.

*5 Varies depending on the usage conditions, CPU speed, etc.

* The AC adaptor is compatible with power sources up to 240 V AC adaptor. This computer is supplied with a 125 V AC compatible AC cord.

*7 Approx. 1.5 W when the battery pack is fully charged (or not being charged) and the computer is off.

** Rated power consumption.

** • The set-up utilities for both Windows® 2000 and Windows® XP operating systems are preinstalled on this system.

• When the system is initially started, you have the option of selecting operating system of your choice.

· Any operating system that was not selected initially will be deleted automatically.

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* *

To obtain service or technical assistance within the continental U.S.A. and Alaska.

*

DIAL TOLL FREE: 1-800-LAPTOP5

Correspondence requesting product information should be sent to: Panasonic Computer Solution Company 50 Meadowlands Parkway, Panazip 2F-5, Secaucus, NJ 07094

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Batteries, CD-ROM (unless factory installed), Port Replicator, Extra Memory Modules and all other Peripherals, Options and Accessories	One (1) Year from Date of Original End User Customer Purchase	Defective Materials or Workmanship

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