Starting Up/Shuiting Down

Shutting Down (power off your computer)

This procedure is shutting down without using the suspend or hibernation function.

(Reference "Suspend/Hibernation Functions")

Display the shut down screen

After saving important data and closing each application, select [Shut Down] from the [Start] menu.

NOTE

From the keyboard,

You may choose to press down on () , then select the menu with () or ()

2 Confirm shut down

Select [Shut down], then press [Yes].

Your computer will power off automatically.

(In the OFF state, if you are not recharging your battery pack or if the pack is fully charged, your computer consumes approximately 1.5 W.)

Restarting your computer (without shutting down)

Select [Yes] after selecting [Restart...].

NOTE

To quickly resume computer operation after shutting down,

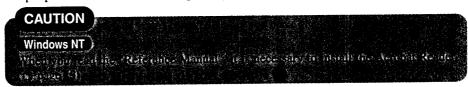
The suspend or hibernation function is available. (Reference "Suspend/ Hibernation Functions")

Windows NT

For the computer to automatically shut down after [Shut down] is selected, Phoenix APM 2.0 for Windows NT® has to be installed. When and grant are displayed on the taskbar, this indicates that the program is installed.

The Reference Manual can be accessed on your computer. When a printer is connected, it is also possible to print.

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

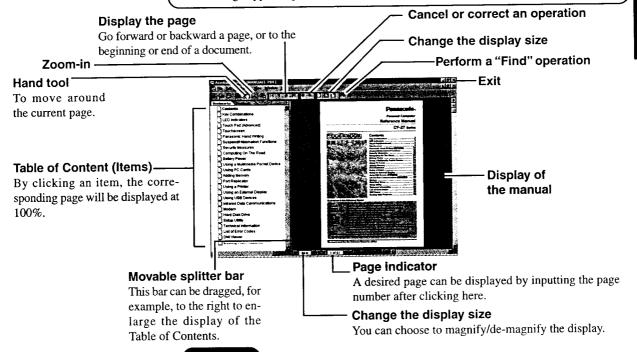
1 Turn your computer on

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

When launching the Reference Manual for the first time, the License Agreement will be displayed. After reading the agreement, select [Accept] to access the Reference Manual.



When launching the Reference Manual for the first time, an error message may appear if the Reference Manual is launched using a method that differs from the above explanation. If an error message appears, press [OK].



CAUTION

-) Hinstructures may be difficult to view depending on the magnification. If this is the estable established the chisposy demonstrated.
- When the assistants hidden at the conom portion of Acrobat[®] Reader, set the maximum display window size.
- If a printer is connected, we recommend printing the Reference Manual. The illustrations and display samples may not print with a high quality.

Faucille and Maintanance

Usage Environment

Environment

• Place the computer on a flat stable surface.

• In use: Temperature: 5 °C to 35 °C {41 °F to 95 °F}

Humidity: 30 % to 80 % RH (No condensation)
Not in use: Temperature: -20 °C to 60 °C {-4 °F to 140 °F}

Humidity: 30 % to 90 % RH (No condensation)

Places not to use your computer

• Such areas may result in damage to the computer.

Areas with electronic equipment

These areas may interfere with your display or cause your computer to produce strange sounds.

Areas with extremely high/low temperatures

• Do not leave things near the computer that are sensitive to heat. During operation, the computer may become warm.



- This computer has been designed so as to minimize shock to the LCD and hard disk drive, the leakage of liquid (e.g., water) from the keyboard, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, please be extremely careful in the handling.
- Do not drop or hit your computer against solid objects.
 Do not stand the computer on its side or allow it to tip over. When the computer receives extremely strong shock after falling, the hard disk or floppy disk drive, etc., may become inoperable.
- It is a good idea to make backup copies on floppy disks and carry them with you.
- Do not leave a floppy disk in the drive while transporting your computer.
- Do not carry your computer when it is ON.
- Remove all cables before transporting your computer. Having the optional port replicator is very convenient.
- We recommend preparing a fully charged battery (and optional charger, if possible).
 When transporting spare batteries inside a package, briefcase, etc., it is recommended that the batteries be stored in a plastic bag.
- Do not place the computer upright. When the computer receives extremely strong shock after falling, the hard disk or floppy disk drive, etc., may become inoperable.
- Do not carry the computer while the display is open, or carry it by gripping the display.
- Do not put anything (e.g., a piece of paper) between the display and keyboard.
- Always carry your computer with you. Never check it in with luggage. For use of the computer inside an aircraft, we recommend asking the airlines regarding their policy on this issue.

Maintenance

Areas excluding the display

Firmly squeeze a soft wet cloth containing water or detergent (for kitchen use) diluted with water and gently wipe the computer. If a detergent other than a detergent for kitchen use is used (e.g., low-alkaline detergent), it may adversely affect the surface (e.g., discoloration).



Touch Pad

page 17

Display

Use a soft dry cloth like gauze to lightly wipe the display.

CAUTION

- Do not use cenzene or thinner, or rubbing alcohol... Doing so may be adversely affect the surface, e.g., discoloration. In addition, do not use commercially available 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 computer, this may cause the computer to work improperly or be damaged.

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 one of except the messages marked below 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 Shadow RAM Failed at offset: nnnn

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

0231 System RAM Failed at offset: nnnn

System RAM failed at offset nnnn of in 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 CMOS

Memory size found by POST differed from 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 Coetas

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.

CD ROM Drive

CD ROM Drive identified.

Entering SETUP ...

Starting Setup Utility.

Failing Bits: nnnn

The hex number *nnnn* 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.

Fixed Disk n

Fixed disk n (0-3) identified.

Invalid System Configuration Data

Problem with NVRAM (CMOS) data.

I/O device IRQ conflict

I/O device IRQ conflict error.

PS/2 Mouse Boot Summary Screen:

PS/2 Mouse installed.

nnnn kB Extended RAM Passed

Where nnnn is the amount of RAM in kilobytes successfully tested.

nnnn Cache SRAM Passed

Where nnnn is the amount of system cache in kilobytes successfully tested.

nnnn kB Shadow RAM Passed

Where nnnn is the amount of shadow RAM in kilobytes successfully tested.

nnnn kB System RAM Passed

Where nnnn is the amount of system RAM in kilobytes successfully tested.

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, <F3> for previous

Displayed after any recoverable error message. Press <F1> to start the boot process or <F2> to enter a Setup and change the settings. Press <F3> to display the previous screen (usually an initialization error of an **Option ROM**, i.e., an add-on card). Write down and follow the information shown on the screen.

Press <F2> to enter Setup

Optional message displayed during POST. Can be turned off in Setup.

PS/2 Mouse:

PS/2 mouse identified.

System BIOS shadowed

System BIOS copied to shadow RAM.

UMB upper limit segment address: nnnn

Displays the address *nnnn* of the upper limit of **Upper Memory Blocks**, indicating released segments of the BIOS which can be reclaimed by a virtual memory manager.

Video BIOS shadowed

Video BIOS successfully copied to shadow RAM.

Dealing With Problems

When a problem occurs, refer to this page. The Reference Manual also contains detailed information. If you still cannot troubleshoot the problem, contact Panasonic Technical Support.

Starting Up

Starting Up	
The power indicator or bate, are value and a special indicator is not like	 Check the cable connection for the AC adapter. Check to see if a fully charged battery is properly installed. Remove the battery pack and disconnect the AC adapter, then connect them again.
s displayed	Please input your password. If you have forgotten it, contact Panasonic Technical Support.
[POSI) Starting Error(s)] is displayed	→ page 21
Windows startup, or an op- eration is extremely slow	Press F9 in the Setup Utility (Reference "Setup Utility"). This will restore the Setup 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 operation may not cause the processing speed to increase.)
An operation is slow	<for cf-27fcckfam="" model="" only=""> Have you deleted the check mark for "Allow Windows to manage power use on this computer" in [Start] - [Settings] - [Control Panel] - [Power]? If it is unmarked, the computer may automatically enter a power saving mode to prevent the temperature from rising above allowable levels, depending on usage condition. Add the check mark to "Allow Windows to manage power use on this computer".</for>
The date and time are incorrect	 You can set the date and time through [Date/Time] in [Start] - [Settings] - [Control Panel]. If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Please contact Panasonic Technical Support. Windows NT When [APM 2.0 for NT] is not displayed in [Control Panel], this indicates that Phoenix APM 2.0 for Windows NT® is not installed. When the suspend or hibernation function is used under this condition, the date and time may be incorrectly displayed. Correct the date and time, and then install Phoenix APM 2.0 for Windows NT®. You can set the date and time through [Date/Time] in [Start] - [Settings] - [Control Panel].
Others	 Press F9 in the Setup Utility (Reference "Setup Utility"). This will restore the Setup Utility's settings to their default values (except the password settings). Try removing all peripheral devices. Windows 95 In the MS-DOS mode, run SCANDISK to check the hard disk.

● Shutting down Windows 95

Shutting down	
Unable to shut down Windows 95	● If a USB device is connected, try removing it.● Do not shut down Windows during music playback.

At start-up, press **F8** to operate the computer in the Safe mode.

Battery Indicator

The red indicator lights. Repeated beeping sound while the computer is in use.	
The red indicator blinks	 The battery pack or recharging function may be defective. Quickly remove the battery pack and disconnect the AC adapter, then connect them again. If the problem persists, contact Panasonic Technical Support.
After the AC adapter is connected, the orange indicator blinks five times	Unable to charge because of an improper temperature range. (page 6)

Dealing With Problems

Display		
Unable to connect an external display		
No display after powering on it is to the extended of the exte		
The power has not been cut, but after a certain period of time, there is no display		
The resolution of the display cannot be changed	Set [None] for [Wallpaper] in [Start] - [Settings] - [Control Panel] - [Display] - [Background], and then press [OK]. Then, once again try changing the resolution. After the change, be sure to restart the computer.	
An afterimage appears(i.e., green, red, and blue dots remain on the display) or there are dots not displaying 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 function- 	
The motion of the mouse cursor is not smooth Windows 95	Select [Start] - [Settings] - [Control Panel] - [Mouse] - [Motion] and add the check mark for [Show trails].	
The cursor does not move in scrolling area of the touch pad Windows 95	pad, only scroll operations are possible for the right part or bottom part of the touch pad. In this case, cursor operations are possible by using the work surface excluding the right part or bottom part. When no mode is set, the entire surface of the touch pad can be used for cursor	
The cursor cannot be controlled	Restart the computer by using the keyboard (e.g., 1).	
During simultaneous dis- play, the screen of the ex- ternal display becomes dis- ordered	Try origing and display types of the second	
When the screensaver is set, an error will occur during a resume operation.	il . I I	

Application Software

Computer hangs CANCESTON METALLONING STOLE

- Press Ctrl + Alt + Del to reboot the computer.
- After powering down by pressing the power switch for more than four seconds, slide the power switch to power on and open the application again. If the program no longer works normally, go to [Start] - [Settings] - [Control Panel] -[Add/Remove Programs] to delete the program. Then, try installing the program once again.

Windows NT

• WindowsNT may not shut down if an attempt is made to restart the computer after the installation of an application. In such cases, press Ctrl + Alt + Del, and then select [Shut Down] in the "WindowsNT Security" screen.

Disk Operations

Disk Operations		
Cannot read/write to a fine floopy disk	 Has the floppy disk been correctly inserted? Has the floppy disk been correctly formatted? Has the Setup Utility been used to set [Floppy Operation] to [Enable]? (Reference "Setup Utility Deen used to set [Floppy Operation] to [Enable]? (Reference "Setup Utility Deen used to set [Floppy Operation] to [Enable]? (Properties of the properties	
	Utility") ● Your floppy disk content may be corrupted.	
Unable to write to a floppy s disk	Is the floppy disk write-protected?	
How to format a floppy disk is unclear	Select [Format] in [My Computer] - [3 1/2 Floppy (A:)] - [File]. After confirming the disk volume and format type, start formatting.	
Unable to read/write to the hard disk	 Your drive or file may not have been properly set. Check to see if the hard disk is full. If it is full, delete unnecessary files. 	
Others The Research	Try testing another drive or media.	

Character Input

•	
Unable to input anything but numerals	
Only capital letters are being input	If CapsLock is on, the Caps Lock function is ON. To switch it OFF, press Caps Lock.
How to input European,, characters (8, 2, c), (5, 5, 5) symbols or Euro Currency.	displayed. Point to the desired font name and select it.

Setup Utility

[Enter Password] is displayed	Enter the User Password or Supervisor Password. If you have forgotten it, contact Panasonic Technical Support.
[Advanced] menu can not be registered	Restart the Setup Utility with the Supervisor Password.
All or some items in [Security] menu can not be registered	Restart the Setup Utility with the Supervisor Password.
The timeout functions do not work Windows 95	If the Panasonic Battery Monitor is being displayed, close it.

Before Reinstallation

Preparing

 You will need the Product Recovery CD-ROM and the BACKUP DISK(e.g., FIRSTAID FD) you made earlier. (Refer to the Step 9 on page 13 for details.)

NOTE

If you have not created the BACKUP DISK, you can create by selecting [Create BACKUP DISK] in [Start] [Programs] - [Panasonic]. If you can not create this disk, contact Panasonic Technical Support.

● The CD-ROM pack (CF-VCD271) * is required for the following reinstallation procedure. Mount the CD-ROM pack in the multimedia pocket. (Refer to the operating instructions of the CD-ROM pack for details.)

*DVD-ROM drive pack (CF-VDD272) may be used.

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 close to the conditions at time of purchase.
- Before the reinstallation procedure, remove all peripherals (except for the CD-ROM drive and FD drive).
- Be sure the AC adapter is connected until the reinstallation procedure is completed.

Reinstalling

CAUTION

If data on your hard disk is compressed, the data should be uncompressed, //www.

- 1 Set the CD-ROM pack in the multimedia pocket, and turn the computer on.
- 2 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.
- 3 Press (F9) At the confirmation message, select [Yes] and press (Enter)
- 4 Select [Security] menu and set [Boot Up Drive] to [CDD,DVD/A:/C:].
- 5 Set the Product Recovery CD-ROM in the CD-ROM drive.
- 6 Press (F10).

At the confirmation message, select [Yes] and press **Enter**). The computer will reboot, and this screen should appear.

Windows 95

Select the number

- Restore the whole HDD to factory default
- 2. Restore the drive C to factory default 3. End

Windows NT

Select the number

- 1. Restore the whole HDD to factory default 2. End
- 7 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].

Windows 95

To restore the hard disk (C drive) to factory default, excluding the partition setting(s):

Select [2. Restore the drive C to factory default].

- 8 At the confirmation message, press Y. The operations of "format" and "restore" for the hard disk start automatically. (The operations take about one hour.)
- After the "restore" procedure completes, remove the Product Recovery CD-ROM, then close the tray.
- 10 Turn the computer off and remove the CD-ROM pack.
- 11 Set the floppy disk drive in the multimedia pocket, set the FIRSTAID FD and turn the computer on. Follow the on-screen instructions.
- 12 After the reinstallation procedure completes, the following message will appear on the display.

All data on the whole HDD has been restored to the factory default. After removing floppy disk, restart the computer and set up Windows again.

Remove the floppy disk and restart the computer by pressing Ctrl + Alt + Del , and perform the setup procedure for Windows by following the instructions on the screen. 3 page 11, 12

NOTE

During the reinstallation procedure, the following Setup Utility entries are changed:

When necessary, change these settings accordingly.

Power Menu Power Management Mode :Disable Power Switch :Off

When necessary, set [Boot Up Drive] to [A:/C:] in the Setup Utility.

Port Replicator (Option)

After reinstalling the software on the hard disk, the reinstallation procedure in the operating instructions that accompany the port replicator is not required.

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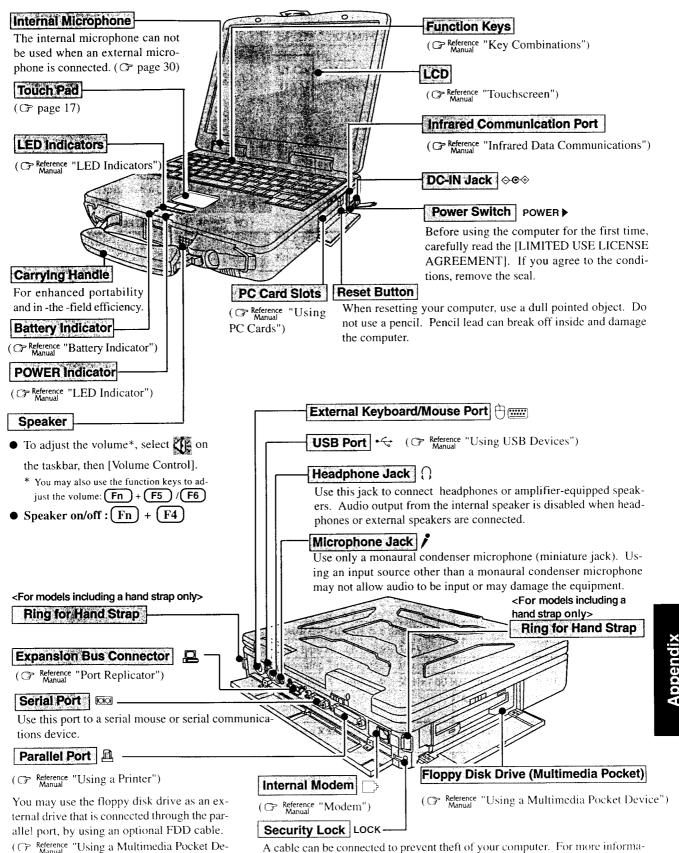
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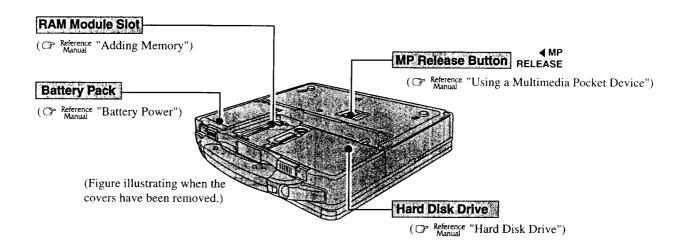
ames and Functions of Parts



tion, please read the manual provided with the cable.

vice")

Names and Functions of Parts



NOTE

About the Problem of "Howling";

The problem of "howling" sometimes occurs when a hand approaches the microphone. In such cases, do the following.

- 1 In the volume control display, select [Option] [Properties].
- **2** Select [Playback] in "Adjust volume for", and select [Microphone] in "Show the following volume controls" (or confirm that a check mark has been added for "Microphone"), then press [OK].
- 3 Add a check mark for "Mute".

Or, to prevent this problem, adjust the microphone volume and speaker volume to moderate levels.

pecifications

Main Specifications

Model No. 1	CF-27FCCKFAM/FCCKFCM	CF-27EB6GDAM/EB6GDCM
CPU (Intel® Mobile Pentium®II Processor)	333 MHz	300PE MHz
g i jan nabakat i in i ja sa	L1 Cache Memory: 32 KB L2 (Second) Cache Memory: 256 KB	
Memory (Expandable to)		64 MB (192 MB Max.)
Video Memory	2.5 MB	
LCD Type	13.3 Type(TFT) (XGA)	12.1 Type (TFT) (SVGA)
Displayed Colors*1	256/65536/262144 colors (640 x 480 dots/800 x 600 dots/1024 x 768 dots)	
Hard Disk Drive (including about 200 MB used specifically by the system)	12 GB* ²	6.4 GB*2

 $^{^{*1}}$ A 16M color display on the LCD is achieved by using the dithering function. *2 1GB = 10 9 bytes

Other Specifications

Model No. CF-27FCCKFAM/FCCKFCM CF-2		CF-27EB6GDAM/EB6GDCM		
Keyboard		Keyboard (87 keys)		
Pointing Device		Touch Pad		
ALTO A STANFACT TO		Touchscreen (Anti-Reflection, Finger touch capable)		
Floppy Disk Drive		720 KB/1.44 MB (two-mode)		
4.5	PC Card Slots	Two Type I or Type II, or one Type II	I	
Slots		Allowable current (total for two slots)		
		3.3 V: 400 mA, 5 V: 400 mA		
*	RAM Module Slot	144-pin, SO-DIMM, 3.3 V, SDRAM		
	Parallel Port	Dsub 25-pin female		
Interface	Serial Port	Dsub 9-pin male		
	Microphone Jack*1	Miniature jack, 3.5 DIA		
		Input impedance 600 Ω, Input voltage range 0.01 V[p-p]		
	Headphone Jack	Miniature jack, 3.5 DIA Impedance 32 Ω , Output Power 4 mW (Impedance 32 Ω) x 2		
Infrared Communication Port External Keyboard/Mouse Port		IrDA 1.1 compliant, 4 Mbps data transmission speed*2		
		Mini DIN 6-pin female		
	Expansion Bus Connector	Dedicated 80-pin female		
	USB Port*3	4-pin		
Internal Modem		Data:56 kbps (V.90 & K56flex) FAX:14.4 kbps		
	Microphone	Monaural Microphone (built in)		
	(vey)	Monaural Speaker (built in)		
Sound	694 C.	16 bits, 44.1 kHz PCM/FM sound (Sound Blaster PRO Compatible)		
	Battery Pack	Lithium ion 10.8 V, 3.75 Ah		
	Operating Time	Approx. 3.0 - 5.0 hours*4		
Battery	Charging Time	Power On: Approx. 5.5 hours*4 Power Off: Approx. 2.5 hours*4		
	Clock Battery	Coin type lithium battery 3.0 V		
		Operating Time: Approx. 7 years		
AC Adap	ler*s	Input: 100 V - 240 V AC, 50 Hz / 60 Hz Output: 15.6 V DC, 3.85 A		
	onsumption	Approx. 43 W*6	Approx. 42 W*6	
(maximum when recharging in the ON state)				
Physical I	Dimensions(wxxxx)	303 mm X 65 mm X 247 mm	301 mm X 58 mm X 241 mm	
(Not including the carrying handle)		{11.9 " X2.6 " X 9.7 "}	{11.8 " X2.3 " X 9.5 "}	
Weight		Approx. 3.9 kg {Approx. 8.6 lb.}	Approx. 3.7 kg {Approx. 8.1 lb.}	
명소 보통도 하나가 하는 아이들이 불편하는 사용관		+ the carrying handle 0.2 kg {0.4 lb.}	+ the carrying handle 0.2 kg {0.4 lb.}	

Use only a monaural condenser microphone (miniature jack).

A communications software is necessary. With Windows NT, 4 Mbps transmission speed is not supported. With Windows NT, USB port is not supported. Varies depending on the usage conditions.

The AC adapter is compatible with power sources up to 240 V AC.

This computer is supplied with a 125 V AC compatible AC cord.

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

Specifications

Operating System

Model No. 11 11 11 11 11 11 11 11 11 11 11 11 11	CF-27FCCKFAM CF-27EB6GDAM	CF-27FCCKFCM CF-27EB6GDCM
Operating System	Microsoft® Windows® 95	Microsoft® Windows NT® Workstation Ver.4.0
	(FAT32 File System)	(NTFS File System)

LIMITED WARRANTY

For U.S.A.

PANASONIC PERSONAL COMPUTER AND PERIPHERALS LIMITED WARRANTY

Panasonic Computer Solution Company (referred to as "Panasonic") will repair this product (other than software, which is covered by a separate warranty) with new or rebuilt parts, free of charge in the U.S.A. for three (3) years from the date of original purchase in the event of a defect in materials or workmanship. This warranty includes the AC Adapter but excludes the batteries and all other options and accessories which are covered for a period of one (1) year from the date of purchase.

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Panasonic's entire liability, and your exclusive remedy under this warranty shall be limited to the replacement, in the United States, of any defective disk or other media which is returned to Panasonic's Authorized Service Center, together with a copy of the purchase receipt, within the aforesaid warranty period.

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This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This Limited Warranty will be governed by the laws the State of New York, without regard to its conflict-of-laws rules.

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

For Canada

PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

<u>Coverage</u> – Panasonic Canada Inc. ("PCI") warrants to you, the first end user customer, this computer product (excluding software media), when purchased from PCI or from a PCI authorized reseller, to be free from defects in materials and workmanship under normal use, subject to the terms set forth below, during the period of warranty coverage specified.

Scope of Coverage	Period of Coverage	Type of Failure Coverage
Whole Product (except Batteries), AC Adapter and CD-ROM (if factory installed)	Three (3) Years from Date of Original End User Customer Purchase	Defective Materials or Workmanship
Batteries, CD-ROM (unless factory installed), Port Replicator, Extra Memory Modules and all other Peripher- als, Options and Accessories	One (1) Year from Date of Original End User Customer Purchase	Defective Materials or Workmanship

Remedy – In the event of a warranty claim, contact PCI's representatives within the applicable warranty period, identifying the nature of the defect claimed, at 1-800-668-8386 between 9:00 A.M. and 5:00 P.M., Eastern Time Zone, Mon. – Fri. (excluding holidays) for instructions on how to obtain service. A purchase receipt or other proof of date of original purchase is required before warranty service is performed. Defective parts covered by this Limited Warranty will be repaired or replaced with new or comparable rebuilt parts on an exchange basis. Warranty replacement or repair is subject to the terms of this Limited Warranty for the balance of the original period of warranty coverage.

No Coverage – This Limited Warranty does not cover products purchased outside Canada. Neither does it cover damage to, failure of, or defects in a product or accessory through mishandling, improper installation, abnormal use, misuse, neglect, accident, introduction of liquid or other foreign matter into the product, alteration or servicing by anyone not authorized by PCI, or act of God.

IF YOU SHIP THE PRODUCT FOR WARRANTY SERVICE

Carefully pack the product, preferably in the original carton. Include details of defect claimed and proof of date of original purchase. No liability is assumed for loss or damage to the product while in transit, if you chose your own transportation carrier.

SOFTWARE MEDIA LIMITED WARRANTY

<u>Coverage</u> - Panasonic Canada Inc. ("PCI") warrants to you, the first end user customer, that the disk(s) or other media on which software program(s) is/are supplied will be free from defects in materials and workmanship under normal use in Canada for a period of sixty (60) days from date of receipt as evidenced by your purchase receipt for your Panasonic Computer product.

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NO ACTION, REGARDLESS OF ITS BASIS, MAY BE BEGUN AGAINST PCI MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION AROSE.

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