

Reinstalling Software

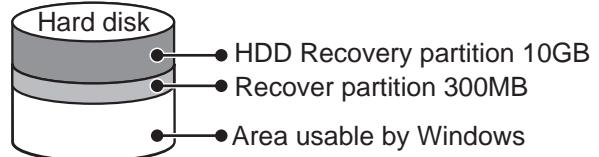
Reinstalling software will return the computer to the default condition. When you reinstall the software, the hard disk data will be erased.

Back up important data to other media or an external hard disk before reinstallation.

■ Hard Disk Recovery

CAUTION

- You can reinstall Windows 7 only.
- Do not delete the recovery partition on the hard disk.
The disk space in the partition is not available to store data.



Preparation

- Remove all peripherals.
- Connect the AC adaptor and do not remove it until reinstallation is complete.

1 Turn on the computer, and press F2 or Del while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

- If the password is requested, enter the Supervisor Password.

2 Write down all of the contents of the Setup Utility and press F9.

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

3 Press F10.

At the confirmation message, select [Yes] and press Enter.
Computer will restart.

4 Press F2 or Del while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

- If the password is requested, enter the Supervisor Password.

5 Select the [Exit] menu, then select [Repair Your Computer] and press Enter.

6 Click [Reinstall Windows] and click [Next].

The License Agreement screen appears.

7 Click [Yes, I agree to the provisions above and wish to continue!] and click [Next].

8 Select the settings and click [Next].

- [Reinstall Windows to the whole Hard Disk to factory default.]

Select this option when you want to reinstall Windows to the factory default. After reinstallation, you can create a new partition. For how to create a new partition, refer to "To change the partition structure" (→ page 17).

- [Reinstall to the System and OS partitions.]¹

Select this option when the hard disk has already been divided into several partitions. For how to create a new partition, refer to "To change the partition structure" (→ page 17).

You can keep the partition structure.

¹ This does not appear if Windows cannot be reinstalled to the partition containing boot files and the area usable by Windows.

9 At the confirmation message, click [OK].

10 Select OS (32bit or 64bit) and click [OK].

11 At the confirmation message, click [OK].

Reinstallation starts according to the instructions on the screen.

- Do not interrupt reinstallation, for example by turning off the computer. Otherwise reinstallation may become unavailable as Windows may not start up or the data may be corrupted.

12 When ending screen is displayed, click [OK] to turn off the computer.

13 Turn on the computer.

- If the password is requested, enter the Supervisor Password.

14 Perform the "First-time Operation" (→ page 15).

15 Start the Setup Utility and change the settings as necessary.

16 Perform Windows Update.

Reinstalling Software

■ Using Recovery Disc

Use the Recovery Disc for reinstallation in the following conditions.

- You have forgotten the administrator password.
- Reinstallation is not complete. The recovery partition may be broken.

NOTE

- When you reinstall OS using the Recovery Disc, OS which was installed as the factory default will be installed. To change OS from 32 bit to 64 bit, or vice versa, reinstall OS using the recovery partition in the hard disk.

Preparation

- Prepare the Recovery Disc (→  Reference Manual "Recovery Disc Creation Utility")
- Remove all peripherals.
- Connect the AC adaptor and do not remove it until reinstallation is complete.

1 Turn on the computer, and press F2 or Del while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

- If the password is requested, enter the Supervisor Password.

2 Write down all of the contents of the Setup Utility and press F9.

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

3 Press F10.

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

Computer will restart.

4 Press F2 or Del while [Panasonic] boot screen is displayed.

The Setup Utility starts up.

- If the password is requested, enter the Supervisor Password.

5 Set the Recovery Disc into the CD/DVD drive.

6 Select the [Exit] menu, then select [TEAC DV-W28S-V] in [Boot Override].

7 Press Enter.

The computer will restart.

8 Click [Reinstall Windows] and click [Next].

The License Agreement screen appears.

9 Click [Yes, I agree to the provisions above and wish to continue!] and click [Next].

10 Select the settings and click [Next].

- [Reinstall Windows to the whole Hard Disk to factory default.]

Select this option when you want to reinstall Windows to the factory default. After reinstallation, you can create a new partition. For how to create a new partition, refer to "To change the partition structure" (→ page 17).

- [Reinstall to the first 3 partitions.]²

Select this option when the hard disk has already been divided into several partitions. For how to create a new partition, refer to "To change the partition structure" (→ page 17).

You can keep the partition structure.

² This does not appear if Windows cannot be reinstalled to the partition containing boot files and the area usable by Windows.

11 At the confirmation message, click [YES].

Reinstallation starts. (It will take approximately 30 minutes.)

According to the screen, replace the Recovery Disc.

- Do not interrupt reinstallation, for example by turning off the computer. Otherwise reinstallation may become unavailable as Windows may not start up or the data may be corrupted.

12 When "Ending process." is displayed, remove the Recovery Disc, and then click [OK] to turn off the computer.

13 Turn on the computer.

- If the password is requested, enter the Supervisor Password.

14 Perform the "First-time Operation" (→ page 15).

15 Start the Setup Utility and change the settings as necessary.

16 Perform Windows Update.

Troubleshooting (Basic)

Follow the instructions below when a problem has occurred. There is also an advanced troubleshooting guide in the "Reference Manual". For a software problem, refer to the software's instruction manual. If the problem persists, contact Panasonic Technical Support (→ page 35). You can also check the computer's status in the PC Information Viewer (→  Reference Manual "Troubleshooting (Advanced)".)

■ Starting Up

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| Cannot start up. The power indicator or battery indicator is not lit. | <ul style="list-style-type: none"> ● Connect the AC adaptor. ● Insert a fully charged battery. ● Remove the battery pack and the AC adaptor, then connect them again. ● If a device is connected to the USB port, disconnect the device, or set [USB Port] or [Legacy USB Support] to [Disable] in the [Advanced] menu of the Setup Utility. ● If a device is connected to the ExpressCard slot, disconnect the device, or set [ExpressCard Slot] to [Disable] in the [Advanced] menu of the Setup Utility. ● Press Fn + F8 to turn off the concealed mode. |
| The power is turned on but "Warming up the system (up to 32 minutes)" appears. | <ul style="list-style-type: none"> ● The computer is warming up before start up. Wait for the computer to start up (takes up to 32 minutes). If, "Cannot warm up the system" is displayed, the computer failed to warm up and will not start. In this case, turn off the computer, leave it in an environment of 5 °C {41 °F} or higher temperature for about an hour, and then turn on the power again. |
| Cannot turn on the computer. The computer does not resume from sleep (Windows 7) /standby (Windows XP) . (The power indicator blinks quickly in green.) | <ul style="list-style-type: none"> ● Leave it in an environment of 5 °C {41 °F} or higher temperature for about an hour, then turn on the power again. |
| After adding or changing the RAM module, the power is turned on but nothing is displayed on the screen. | <ul style="list-style-type: none"> ● Turn off the computer and remove the RAM module, then confirm whether the RAM module has compliant to specification. When the RAM module has conformed to specification, install it again. |
| Windows 7 The computer does not enter sleep mode while the screen saver is running. (The screen stays black.) | <ul style="list-style-type: none"> ● Slide and hold the power switch for four seconds or longer to shut down the computer forcibly. (Data not saved will be lost.) Then disable the screen saver. |
| You have forgotten the password. | <ul style="list-style-type: none"> ● Supervisor Password or User Password: Contact Panasonic Technical Support (→ page 35). ● Administrator password: <ul style="list-style-type: none"> • If you have a password reset disk, you can reset the administrator password. Set the disk and enter any wrong password, then follow the on-screen instructions and set a new password. • If you do not have a password reset disk, reinstall (→ page 21) and set up Windows, and then set a new password. |
| "Remove disks or other media. Press any key to restart" or a similar message appears. | <ul style="list-style-type: none"> ● A floppy disk is in the drive (optional) and it does not contain system startup information. Remove the floppy disk and press any key. ● If a device is connected to the USB port, disconnect the device, or set [USB Port] or [Legacy USB Support] to [Disable] in the [Advanced] menu of the Setup Utility. ● If a device is connected to the ExpressCard slot, disconnect the device, or set [ExpressCard Slot] to [Disable] in the [Advanced] menu of the Setup Utility. ● If the problem persists after removing the disk, it may be a hard disk failure. Contact Panasonic Technical Support (→ page 35). |
| Windows startup and operation is slow. | <ul style="list-style-type: none"> ● Press F9 in the Setup Utility (→  Reference Manual "Setup Utility") to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again. (Note that the processing speed depends on the application software, so this procedure may not make Windows faster.) ● If you installed a resident software after purchase, turn off the residence. ● Windows XP Disable Indexing Service in the following menu. Click [start] - [Search] - [Change preferences] - [With Indexing Service (for faster local service)]. |

Troubleshooting (Basic)

■ Starting Up

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| The date and time are incorrect. | <ul style="list-style-type: none">Make the correct settings. Windows 7 Click (Start) - [Control Panel] - [Clock, Language, and Region] - [Date and Time]. Windows XP Click [start] - [Control Panel] - [Date, Time, Language, and Regional Options] - [Date and Time].If the problem persists, the internal clock battery may need to be replaced. Contact Panasonic Technical Support (→ page 35).When the computer is connected to LAN, check the date and time of the server.The 2100 A.D. or later year will not be correctly recognized on this computer. |
| [Executing Battery Recalibration] screen appears. | <ul style="list-style-type: none">The Battery Recalibration was cancelled before Windows was shut down last time. To start up Windows, turn off the computer by the power switch, and then turn on. |
| [Enter Password] does not appear when resuming from sleep (Windows 7)/standby (Windows XP)/ hibernation. | <ul style="list-style-type: none">Select [Enabled] in [Password On Resume] in the [Security] menu of the Setup Utility (→ Reference Manual "Setup Utility").The Windows password can be used instead of the password set in the Setup Utility. Windows 7<ol style="list-style-type: none">Click (Start) - [Control Panel] - [User Accounts and Family Safety] - [Add or remove user accounts] and select the account, and set the password.Click (Start) - [Control Panel] - [System and Security] - [Power Option] - [Require a password when the computer wakes] and add a check mark for [Require a password].Windows XP<ol style="list-style-type: none">Click [start] - [Control Panel] - [User Accounts] and select the account, and set the password.Click [start] - [Control Panel] - [Performance and Maintenance] - [Power Options] - [Advanced] and add a check mark for [Prompt for password when computer resumes from standby]. |
| Cannot resume. | <ul style="list-style-type: none">An error may occur when the computer automatically enters the sleep (Windows 7) / standby (Windows XP) or hibernation mode while the screensaver is active. In this case, turn off the screensaver or change the pattern of the screensaver. |
| Other startup problems. | <ul style="list-style-type: none">Press F9 in the Setup Utility (→ Reference Manual "Setup Utility") to return the Setup Utility settings (excluding the passwords) to the default values. Start the Setup Utility and make the settings again.Remove all peripheral devices.Check to see if there was a disk error. Windows 7<ol style="list-style-type: none">Remove all peripheral devices including external display.Click (Start) - [Computer] and right-click [Local Disk (C:)], and click [Properties].Click [Tools] - [Check Now...].<ul style="list-style-type: none">A standard user needs to enter an administrator password.Select the option in [Check disk options] and click [Start].Click [Schedule disk check] and restart the computer.Windows XP<ol style="list-style-type: none">Click [start] - [My Computer] and right-click [Local Disk(C:)], and click [Properties].Click [Tools] - [Check Now].Select the option in [Check disk options] and click [Start].Start the computer in Safe Mode and check the error details. When the [Panasonic] boot screen disappears ¹ at startup, press and hold F8 until the Windows Advanced Options Menu is displayed. Select the Safe Mode and press Enter. <p>¹ When [Password on boot] is set to [Enabled] in the [Security] menu of the Setup Utility, [Enter Password] appears after the [Panasonic] boot screen disappears. As soon as you enter the password and press Enter, press and hold F8.</p> |

■ Entering Password

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| Even after entering the password, password input screen is displayed again. | <ul style="list-style-type: none"> The computer may be in ten-key mode. If the NumLk indicator lights, press NumLk to disable the ten-key mode, and then input. The computer may be in Caps Lock mode. If the Caps Lock indicator lights, press Caps Lock to disable the Caps Lock mode, and then input. |
| Windows 7 Cannot log on to Windows. ("The user name or password is incorrect." is displayed.) | <ul style="list-style-type: none"> The user name (account name) includes the "@" mark. <ul style="list-style-type: none"> If another user account name exists: Log on to Windows using another user account name, and delete the account name that includes "@". Then create a new account name. If no other account name exists: You need to reinstall Windows (→ page 21). |

■ Shutting down

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| Windows does not shut down. | <ul style="list-style-type: none"> Remove the USB device and the ExpressCard. Wait 1 or 2 minutes. It is not a malfunction. |
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■ Display

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| No display. | <ul style="list-style-type: none"> The external display is selected. Press Fn + F3 or Fn + P² to switch the display. Wait until the display has been switched completely before pressing Fn + F3 or Fn + P² again. When using an external display, <ul style="list-style-type: none"> Check the cable connection. Turn on the display. Check the settings of external display. The display is turned off by the power-saving function. To resume, do not press the direct selection keys, but press any other key like Ctrl. The computer entered sleep (Windows 7) /standby (Windows XP) or hibernation by the power-saving function. To resume, press the power switch. <p>² Windows 7 only</p> |
| The screen is dark. | <ul style="list-style-type: none"> The screen is darker when the AC adaptor is not connected. Press Fn + F2 and adjust the brightness. As you increase the brightness, battery consumption increases. You can separately set the brightness for when the AC adaptor is connected and when not connected. Press Fn + F8 to turn off the concealed mode. |
| The screen does not become bright even if pressing Fn + F2 . | <ul style="list-style-type: none"> The brightness is set low to avoid malfunction where surrounding temperature is high. Use it in an environment of between -10 °C and 50 °C {14 °F to 122 °F}. |
| The screen is disordered. | <ul style="list-style-type: none"> Changing the number of display colors and resolution may affect the screen. Restart the computer. Connecting/disconnecting an external display may affect the screen. Restart the computer. |
| During Simultaneous display, one of the screens becomes disordered. | <ul style="list-style-type: none"> When using the Extended Desktop, use the same display colors for the external display as those used by the LCD. If you continue to experience problems, try changing the display. <p>Windows 7 Click (Start) - [All Programs] - [Panasonic] - [Display Selector].</p> <p>Windows XP Clicking [start] - [All Programs] - [Panasonic] - [Display Selector].</p> <ul style="list-style-type: none"> Windows XP When the [Command Prompt] is set to "Full Screen" by pressing Alt + Enter, the picture is displayed on one of the screens only. When the window display is restored by pressing Alt+Enter, the picture is displayed on both screens. Simultaneous display cannot be used until Windows startup is complete (during Setup Utility, etc.). |
| The external display does not work normally. | <ul style="list-style-type: none"> If the external display does not support the power saving function, it may not work normally when the computer enters the power saving mode. Turn off the external display. |

Troubleshooting (Basic)

■ Display

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| Windows 7 <Only for model with GPS> The cursor cannot be controlled properly. | <ul style="list-style-type: none">● Operate the following steps.<ol style="list-style-type: none">① Restart the computer and press F2 or Del while [Panasonic] boot screen is displayed.② Set [GPS] to [Disable] in the sub-menu of [Serial and Parallel Port Settings] in the [Advanced] menu of the Setup Utility.③ Press F10 and select [Yes] at the confirmation message, and press Enter. The computer will restart.④ Log on to Windows as an administrator.⑤ Click  (Start) and input "c:\util\drivers\gps\GPS.reg" in [Search programs and files], and press Enter.⑥ Click [Yes], click [Yes], and click [OK]. Then restart the computer.⑦ Press F2 while [Panasonic] boot screen is displayed.⑧ Set [GPS] to [Enable] in the sub-menu of [Serial and Parallel Port Settings] in the [Advanced] menu.⑨ Press F10 and select [Yes] at the confirmation message, and press Enter. |
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■ Touch Pad / Touchscreen (only for model with touchscreen)

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| The cursor does not work. | <ul style="list-style-type: none">● When using the external mouse, connect it correctly.● Restart the computer using the keyboard. Windows 7 Press Shift and press → two times, and press ↑ to select [Restart] and press Enter. Windows XP Press Shift, U, and R to select [Restart].● If the computer does not respond to keyboard commands, read "No response" (→ page 27). |
| Cannot input using the touch pad. | <ul style="list-style-type: none">● Set [Touch Pad] to [Enable] in the [Main] menu of the Setup Utility.● The drivers for some mice may disable the touch pad. Check your mouse's operating instructions. |
| <Only for model with touch screen> Cannot input using the touchscreen. | Windows 7 <ul style="list-style-type: none">● Set [Touchscreen Mode] to [Auto] or [Tablet] in the [Main] menu of the Setup Utility. Windows XP <ul style="list-style-type: none">● Set [Touchscreen Mode] to [Auto] or [Touchscreen Mode] in the [Main] menu of the Setup Utility. |
| Cannot point the correct position using the included stylus. | <ul style="list-style-type: none">● Perform the touchscreen calibration (→ page 16). |

■ Reference Manual

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| The Reference Manual is not displayed. | <ul style="list-style-type: none">● Install Adobe Reader.<ol style="list-style-type: none">① Log on to Windows as an administrator.② Click  (Start) and input "c:\util\reader\Setup.exe" in [Search programs and files] then press Enter.③ Update Adobe Reader to its latest version. If your computer is connected to the internet, start up Adobe Reader and click [Help] - [Check for Updates...]. Windows XP <ol style="list-style-type: none">② Click [start] - [Run], input [c:\util\reader\Setup.exe], then click [OK].③ Update Adobe Reader to its latest version. If your computer is connected to the internet, start up Adobe Reader and click [Help] - [Check for updates now]. |
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■ Others

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| No response. | <ul style="list-style-type: none">Press Ctrl+Shift+Esc to open Task Manager and close the software application that is not responding.An input screen (e.g., password input screen at startup) may be hidden behind another window. Press Alt+Tab to check.Slide the power switch for 4 seconds or longer to shut down the computer, and then slide the power switch to turn it on. If the application program does not work normally, uninstall and reinstall the program. To uninstall, Windows 7 click  (Start) - [Control Panel] - [Programs] - [Uninstall a program]. Windows XP click [start] - [Control Panel] - [Add or Remove Programs]. |
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Specifications

This page provides the specifications for the basic model.
The model number is different according to the unit configuration.

- To check the model number:
Check the bottom of the computer or the box the computer came in at the time of purchase.
- To check CPU speed, memory size and the hard disk drive (HDD) size:
Run the Setup Utility (→  Reference Manual "Setup Utility") and select [Information] menu.
[Processor Speed]: CPU speed, [Memory Size]: Memory size, [Hard Disk]: Hard disk drive size

■ Main Specifications

| Model No. | CF-31JLGAXDM | CF-31JEGAXDM |
|-------------------------------|--|---|
| CPU/Secondary cache memory | Intel® Core i5-2540M (2.6 GHz, Intel® Smart Cache 3 MB ¹) | Intel® Core i5-2520M (2.5 GHz, Intel® Smart Cache 3 MB ¹) |
| Chip Set | Mobile Intel® QM67 Express Chipset | |
| Video controller | AMD Radeon™ HD 6750M | (Built-in Chip Set) |
| Main Memory ² | 4 GB ¹ , DDR3 SDRAM (8 GB ¹ Max.) | |
| Video Memory | <With ATI Mobility Radeon™ HD 5650> Windows 7 512 MB ¹ dedicated (1423 MB ¹ Max. / 1915 MB with expanded memory) ³ Windows XP 512 MB ¹ dedicated (1024 MB ¹ Max.) ³ <With Built-in Chip Set> Windows 7 <Only for model with 32bit> UMA(1428 MB ¹ Max.) ³ <Only for model with 64bit> UMA(1696 MB ¹ Max.) ³ Windows XP UMA (1024 MB ¹ Max.) ³ | |
| Hard Disk Drive | 320 GB ⁴ (Serial ATA) Windows 7 Approx. 10 GB ⁴ is used as a partition with HDD recovery tools. (Users cannot use this partition.) Approx. 300 MB ⁴ is used as a partition with recovery tools. (Users cannot use this partition.) | |
| Display Method | 13.1 XGA type (TFT) (1024 × 768 dots) | |
| Internal LCD | 65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots) ⁵ | |
| External Display ⁶ | 65,536/16,777,216 colors (800 × 600 dots/1024 × 768 dots/1280 × 768 dots/1280 × 1024 dots) | |
| Wireless LAN ⁷ | Intel® Centrino® Advanced - N 6205 (→ page 31) | |
| Bluetooth™ ⁸ | → page 32 | |
| Wireless WAN ⁹ | Sierra™ Wireless High-speed module | |
| LAN | IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T (2nd LAN ¹⁰ : IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX) | |
| Modem ¹¹ | Data: 56 kbps (V.92) FAX: 14.4 kbps | |
| Sound | WAVE and MIDI playback, Intel® High Definition Audio subsystem support | |
| Security Chip | TPM (TCG V1.2 compliant) ¹¹ | |
| Card Slots | PC Card Slot | × 1, Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA |
| | ExpressCard Slot | × 1, ExpressCard/34 or ExpressCard/54 |
| | SD Memory Card Slot ¹³ | × 1 |
| | Contact Smart Card Slot ¹⁴ | × 1 |
| RAM Module Slot | × 1, DDR3 SDRAM, 204-pin, 1.5 V, SO-DIMM, PC3-1060 | |
| Interface | USB Ports × 4 ¹⁵ / Serial Port (Dsub 9-pin male) / Modem Port (RJ-11) ¹¹ / LAN Port (RJ-45) × 1 ¹⁶ or × 2 ¹⁰ / External Display Port (VGA) (Mini Dsub 15-pin female) / HDMI Port (Type A) ¹⁷ / IEEE1394a Interface Connector (4-pin) ¹⁸ / Microphone Jack (Miniature jack, 3.5 DIA) / Headphone Jack (Miniature jack, 3.5 DIA, Impedance 32 Ω, Output Power 4 mW × 2, Stereo) / Expansion Bus Connector (Dedicated 100-pin female) | |

■ Main Specifications

| | | |
|--|---|---|
| Model No. | CF-31JLGAXDM | CF-31JEGAXDM |
| Keyboard / Pointing Device | 87 keys / Touch Pad / Touchscreen | |
| Fingerprint Reader ^{*19} | Array Size : 192 × 4 pixels, Image Size : 192 × 512 pixels, Image Resolution : 508 DPI | |
| Web Camera ^{*20} | 640 × 480 dots, 30 fps | |
| Power Supply | AC adaptor or Battery pack | |
| AC Adaptor ^{*21} | Input: 100 V to 240 V AC, 50 Hz/60 Hz, Output: 15.6 V DC, 7.05 A | |
| Battery Pack | Li-ion 10.65 V, Typical 8550 mAh / Minimum 8100 mAh | |
| Operating Time ^{*23} | Windows 7 Main Battery: Approx. 12.5 hours Windows XP Main Battery: Approx. 11.0 hours | |
| | - | Windows 7 Main Battery: Approx. 20.0 hours Windows XP Main Battery: Approx. 17.5 hours |
| | | |
| Charging Time ^{*24} | Power on | Main Battery: Approx. 4.5 hours - Main Battery + Second Battery: Approx. 8.0 hours ^{*24} |
| | Power off | Main Battery: Approx. 3.5 hours - Main Battery + Second Battery: Approx. 7.0 hours ^{*24} |
| Power Consumption ^{*25} | Approx. 55 W ^{*26} / Approx. 100 W (maximum when recharging in the ON state) | Approx. 45 W ^{*26} / Approx. 100 W (maximum when recharging in the ON state) |
| Physical Dimensions (W × D × H) (including the carrying handle) | 302 mm × 292 mm × 73.5 mm {11.9" × 11.5" × 2.9"} | |
| Weight (including the hand strap) | Approx. 3.72 kg {Approx. 8.2 lb.} | |
| Environment | Operating | Temperature -10 °C to 50 °C {14 °F to 122 °F} (IEC60068-2-1, 2) ^{*27} |
| | | Humidity 30 % to 80 % |
| | Storage | Temperature -20 °C to 60 °C RH {-4 °F to 140 °F} |
| | | Humidity 30 % to 90 % RH (No condensation) |

■ Software

| | | |
|---------------------------------------|--|--|
| Base OS | Genuine Windows® 7 Professional | |
| Installed OS ^{*28} | Genuine Windows® 7 Professional 32-bit Service Pack 1 / Genuine Windows 7 Professional 64-bit Service Pack 1 | Genuine Windows® XP Professional Service Pack 3 ^{*29} |
| Pre-installed Software ^{*28} | Adobe Reader, PC Information Viewer, Loupe Utility, Display Selector, Bluetooth™ Stack for Windows® by TOSHIBA ^{*8} , Wireless Switch Utility, Intel® PROSet / Wireless Software ^{*7} , Wireless Connection Disable Utility ^{*30} , Hotkey Settings, Battery Recalibration Utility, Infineon TPM Professional Package ^{*30} , Protector Suite QL ^{*19 *30} , Aptio Setup Utility, Hard Disk Data Erase Utility ^{*31} , PC-Diagnostic Utility, Concealed mode Utility ^{*32} , Wireless Manager Mobile Edition 5.5f ^{*30 *33} , Quick Boot Manager, Fan Monitoring Utility | |
| | Recovery Disc Creation Utility, Panasonic Power Plan Extension Utility | Icon Enlarger, Power Saving Utility |

■ Wireless LAN^{*7}

| | |
|---------------------|--|
| Data Transfer Rates | IEEE802.11a : 54/48/36/24/18/12/9/6 Mbps (automatically switched) ^{*34} IEEE802.11b : 11/5/2/1 Mbps (automatically switched) ^{*34} IEEE802.11g : 54/48/36/24/18/12/9/6 Mbps (automatically switched) ^{*34} IEEE802.11n ^{*35} : (HT20) GI ^{*36} = 400ns: 144/130/115/86/72/65/57/43/39/28/21/14/7 Mbps (automatically switched) ^{*34} GI ^{*36} = 800ns: 130/117/104/78/65/58/52/39/26/19/13/6 Mbps (HT40) GI ^{*36} = 400ns: 300/270/240/180/157/135/120/90/60/30/15 Mbps (automatically switched) ^{*34} GI ^{*36} = 800ns: 270/243/216/162/135/121/108/81/54/40/27/13 Mbps |
| Standards Supported | IEEE802.11a / IEEE802.11b / IEEE802.11g / IEEE802.11n |
| Transmission method | OFDM system, DSSS system |

Specifications

| | |
|------------------------|---|
| Wireless Channels Used | IEEE802.11a : Channels 36/40/44/48/52/56/60/64/100/104/108/112/116/132/136/140/149/153/ 157/161/165 IEEE802.11b/IEEE802.11g : Channels 1 to 11 IEEE802.11n : Channels 1-11/36/40/44/48/52/56/60/64/100/104/108/112/116/132/136/140/149/ 153/157/161/165 |
| RF Frequency Band | IEEE802.11a : 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz IEEE802.11b/IEEE802.11g : 2.412 GHz - 2.462 GHz IEEE802.11n : 2.412 GHz - 2.462 GHz, 5.18 GHz - 5.32 GHz, 5.5 GHz - 5.7 GHz, 5.745 GHz - 5.825 GHz |

■ Bluetooth™^{*8}

| | |
|------------------------|----------------------|
| Bluetooth Version | version 2.1 +EDR |
| Transmission method | FHSS system |
| Wireless Channels Used | Channels 1 to 79 |
| RF Frequency Band | 2.402 GHz - 2.48 GHz |

^{*1} 1 MB = 1,048,576 bytes / 1 GB = 1,073,741,824 bytes

^{*2} Memory size of the factory default depends on the model.

You can physically expand the memory up to 8 GB, but the total amount of usable memory available will be less depending on the actual system configuration.

^{*3} A segment of the main memory is allotted automatically depending on the computer's operating status. The size of the Video Memory cannot be set by the user. The size of Video memory is allotted depending on the operating system.

^{*4} 1 MB = 1,000,000 bytes / 1 GB = 1,000,000,000 bytes. Your operating system or some application software will report as fewer MB/GB.

^{*5} A 16,777,216 color display is achieved by using the dithering function.

^{*6} Display may be impossible using some connected external displays.

^{*7} Only for model with wireless LAN.

^{*8} Only for model with Bluetooth.

^{*9} Only for model with wireless WAN.

^{*10} Only for model with 2nd LAN.

^{*11} Only for model with modem.

^{*12} For information on TPM, refer to the Installation Manual of "TrustedPlatform Module (TPM)" by the following procedure.

Windows 7

Click  (Start) and input "c:\util\drivers\tpm\README.pdf" in [Search programs and files] and press **Enter**.

Windows XP

Click [start] - [Run] and input "c:\util\drivers\tpm\README.pdf" and click [OK].

^{*13} This slot is compatible with High-Speed Mode. Operation has been tested and confirmed using Panasonic SD/SDHC/SDXC Memory Cards with a capacity of up to 64 GB. Operation on other SD equipment is not guaranteed.

^{*14} Only for model with Smart Card slot.

^{*15} Does not guarantee operation of all USB-compatible peripherals.

^{*16} Only for model without 2nd LAN.

^{*17} Does not guarantee operation of all HDMI-compatible peripherals.

^{*18} Only for model with IEEE 1394a interface.

^{*19} Only for model with Fingerprint reader.

^{*20} Only for model with Web Camera.

^{*21} <Only for North America>

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.

20-M-2-1

^{*22} Measured with LCD brightness : 60 cd/m²

Varies depending on the usage conditions, or when an optional device is attached.

^{*23} Varies depending on the usage conditions, CPU speed, etc.

^{*24} When ATI Mobility Radeon™ HD 6750 video controller is activated:

Windows 7

Main Battery: Approx. 7.5 hours

Windows XP

Main Battery: Approx. 6.5 hours

^{*25} Approx. 0.8 W when the battery pack is fully charged (or not being charged) and the computer is off.

<When using with 115 V AC>

Even when the AC adaptor is not connected to the computer, power is consumed (Max. 0.2 W) simply by having the AC adaptor plugged into an AC outlet.

^{*26} Rated power consumption. 23-E-1

^{*27} Do not expose the skin to this product when using the product in a hot or cold environment. (→ page 10)

When using in hot or cold environment, some peripherals may fail to work properly. Check the operation environment of the peripherals.

Using this product continuously in a hot environment will shorten the product life. Avoid use in these types of environments.

When using in low temperature environment, startup may become slow or battery operation time may become short. The computer consumes power when the hard disk is warming up during startup. Therefore, if you are using battery power and the remaining power is low, the computer may not start up.

- ^{*28} When reinstalling Windows using the data of the recovery area on the hard disk, you can select the OS to be installed (either Windows 7 (32-bit) or Windows 7 (64-bit)). An OS that has been installed at the time of purchase or an OS that has been installed using the hard disk recovery function or the recovery disc can be supported.
- ^{*29} The downgrade service is available only for corporate users who fulfill certain conditions.
- ^{*30} Must be installed before use.
- ^{*31} Perform on the recovery partition. (If this software can not be performed on the recovery partition, perform from the recovery disc)
- ^{*32} Concealed Mode may not work properly during battery recalibration.
- ^{*33} For information on Wireless Manager, refer to the "Supplementary Instructions for Wireless Manager mobile edition 5.5" by the following procedure.
- Windows 7**
- Click  (Start) and input "c:\util\wlprjct\Supplementary Instructions.pdf" in [Search programs and files] and press **Enter**.
- Windows XP**
- Click [start] - [Run] and input "c:\util\wlprjct\Supplementary Instructions.pdf" and click [OK].
- ^{*34} These are speeds specified in IEEE802.11a+b+g+n standards.
Actual speeds may differ.
- ^{*35} Available when set to "WPA-PSK", "WPA2-PSK" or "none".
- ^{*36} Only available when HT40 enabled by the computer and access point which associated supports HT40.

LIMITED WARRANTY

For U.S.A.

Panasonic Solutions Company - Worldwide Product Warranties

Section 1: Limited Warranty - Hardware

Panasonic Solutions Company (referred to as "Panasonic") will repair the products listed below with new or rebuilt parts, free of charge in the U.S.A. or other Panasonic approved location for the period specified below from the date of original purchase in the event of a defect in materials or workmanship. These warranties are extended solely to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

- Laptop Computers – 3 Years
- PDRC - LCD and Keyboard Assemblies – 3 Years
- MDWD – Mobile Computer and Wireless Display Assemblies (CF-07/CF-08) - 3 Years
- Ultra-Mobile PC (CF-U1/CF-H1) – 3 Years
- Hand-held Computers (P1/P2) – 1 Year
- Arbitrator Video Camera – 1 Year
- Arbitrator Recorder Unit – 1 Year
- Arbitrator Remote Control Panel – 1 Year
- Arbitrator Wireless Receiver Unit – 1 Year
- Arbitrator P2 Card(s) (All Sizes) – 1 Year
- Arbitrator Wireless Microphone(s) / Transmitter – 90 Days
- Arbitrator System Component Interconnect Cables – 90 Days

Battery Warranty

The battery supplied with the product is covered under the warranty for one (1) year from date of purchase, except as excluded in Section 3. Batteries purchased separately are covered under the warranty for one (1) year from the date of purchase. A battery furnished under the warranty is covered for the remaining period of the one year warranty on the original or purchased battery.

Wireless Module Warranty

Panasonic approved wireless modems installed in Panasonic brand computers and integrated by Panasonic or an Authorized Panasonic Wireless Integrator are covered under the warranty for the remaining warranty period of the computer in which the modem is installed. For computers with less than three (3) months remaining on the unit warranty, the wireless modem will be covered for a period of three (3) months from the date of installation of the modem, covering only modem replacement or modem installation related issues.

All modems must be approved by the wireless carrier prior to use. Any use or attempted use of a wireless modem not approved and activated by the carrier for use on their network is strictly prohibited and is not sanctioned or warranted by Panasonic and may result in legal action. In addition, all modems must be approved by Panasonic as compatible with the computer hardware before installation or use.

Panasonic's sole responsibility for the warranty or technical support of the software required to install or operate the modem is defined in Section 2 (Limited Software Warranty). Any attempted software installation by anyone other than a Panasonic Authorized Wireless Integrator is not covered under warranty and may result in service charges to re-image or replace the hard drive.

Installation or attempted installation by any party other than Panasonic or an Authorized Panasonic Wireless Integrator is strictly not covered under the warranty and may void the computer warranty if damage results.

Options and Accessories warranties

The below listed Panasonic brand or supplied options and accessories are covered under this limited warranty for the period specified from the date of purchase or as specifically stated:

- AC Adaptor / Power Cord – 3 Years
- Memory Card (Panasonic Brand) – 3 Years
- Car Mount Docking Station PCB or Complete Vehicle Docking Station – 3 Years
- Port Replicator / I-O Box / Device Cradle (like CF-08) – 3 Years
- Antenna Pass-through Cable – 3 Years
- Backlit or Full-sized keyboard - 3 Years or assumes warranty of the unit in which it is installed
- Integrated Panasonic supplied options and kits including, but not limited to Wireless WAN, Media Bay Drives (Floppy, CD/DVD, Combo), GPS, Bluetooth, Smartcard Reader, Magnetic Card Reader, Barcode Scanner and Fingerprint readers – 3 Years or assumes warranty period of the unit in which it is installed provided the integration was performed by Panasonic or an Authorized Options Integrator.
- Hard Drive (separately purchased) – 1 Year
- External USB Drives (CD / DVD / Floppy / Hard Drive) – 1 Year
- Optional Battery – 1 Year
- Battery Charger / Multi-Bay Battery Charger – 1 Year
- Stylus – 90 Days (physical damage excluded)

Section 2 - Limited Warranty - Software

Panasonic Solutions Company (referred to as "Panasonic") warrants to you only that the disk(s) or other media on which the Programs are furnished will be free from defects in material and workmanship under normal use for a period of sixty (60) days from the date of delivery thereof to you, as evidenced by your purchase receipt.

This is the only warranty Panasonic makes to you. Panasonic does not warrant that the functions contained in the Programs will meet your requirements or that the operation of the Programs will be uninterrupted or error free. Panasonic shall have no obligation for any defects in the disk(s) or other media on which the Programs are furnished resulting from your storage thereof, or for defects that have been caused by operation of the disk(s) or other media.

Panasonic's entire liability and your exclusive remedy under this warranty shall be limited to the replacement, in the United States or other Panasonic designated location, 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. The customer is responsible for ensuring that all data is backed up and made secure during normal use and before sending a unit for service.

Section 3 - Limited Warranty Exclusions

Specifically excluded from the warranty are:

- All consumable items; such as screen protection films, logo badges, labels, cleaning cloths, carry cases, manuals, cables, straps, belts, holsters, tethers, and harnesses and any other options and accessories not listed above or covered under a separate warranty.
- Failures related to the product operating system, hard drive image, software setup, software program, virus, other program(s) or file(s) on the hard drive or in any computer memory location.
- Failures due to BIOS settings or changes, as well as any cosmetic or physical damage to the unit.
- Any unit or device with a missing or altered model number or serial number label
- Damage which occurs in shipment
- Failures which are caused by products not supplied by Panasonic
- Failures which result from alteration, accident, misuse, introduction of liquid or other foreign matter into the unit, abuse, neglect, installation, maladjustment of consumer controls, improper maintenance or modification, use not in accordance with product use instructions
- Failures due to service by anyone other than a Panasonic Authorized Service Provider
- Failures caused by improper integration by any company other than Panasonic or a Panasonic Authorized Integrator.
- Damage, failure, or loss due to the unit being stolen, lost, misplaced, or used by anyone other than the original purchaser
- Damage that is attributable to acts of God

This warranty only covers failures due to defects in materials or workmanship which occur during normal use.

THIS PRODUCT IS NOT INTENDED FOR USE AS, OR AS PART OF, NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS¹. PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

¹ AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include Class2 Electrical Flight Bag (EFB) Systems and Class1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted on to the aircraft. Class1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No.36

Other Limits and Exclusions: There are no other express warranties except as listed above.

PANASONIC SHALL NOT BE LIABLE FOR LOSS OF DATA OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

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

For technical support or to arrange for service on your Panasonic computer product, call our toll-free hotline at 1-800-LAPTOP5.

DIAL TOLL FREE: 1-800-LAPTOP5 (1-800-527-8675)
Web Site : www.panasonic.com/toughbook

LIMITED WARRANTY

For Canada

PANASONIC COMPUTER AND PERIPHERALS LIMITED WARRANTY

Coverage – 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 |
|--|---|------------------------------------|
| <ul style="list-style-type: none">• Laptop Computers (except Battery) and AC Adaptor• Factory/PCI installed options including Wireless WAN, GPS, Bluetooth, Finger print reader, Backlit keyboard, Memory Card and Media Bay Drives (Floppy, CD/DVD)• Mobile Wireless Display• PDRC – LCD and Keyboard Assemblies• Port Replicator | Three (3) Years from Date of Original End User Customer Purchase | Defective Materials or Workmanship |
| <ul style="list-style-type: none">• Hand-held Computers• Battery• Battery charger• Auto Adaptor• External USB Drives | One (1) Year from Date of Original End User Customer Purchase | Defective Materials or Workmanship |
| • Stylus | Ninety (90) Days from Date of Original End User Customer Purchase | Defective Materials or Workmanship |
| • All consumable items including protection film, cleaning cloth, carry case, tether and harness | No Coverage | |

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. THIS PRODUCT IS NOT INTENDED FOR USE AS, OR AS PART OF, NUCLEAR EQUIPMENT/SYSTEMS, AIR TRAFFIC CONTROL EQUIPMENT/SYSTEMS, OR AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS². PANASONIC WILL NOT BE RESPONSIBLE FOR ANY LIABILITY RESULTING FROM THE USE OF THIS PRODUCT ARISING OUT OF THE FOREGOING USES.

² AIRCRAFT COCKPIT EQUIPMENT/SYSTEMS include Class2 Electrical Flight Bag (EFB) Systems and Class1 EFB Systems when used during critical phases of flight (e.g., during take-off and landing) and/or mounted on to the aircraft. Class1 EFB Systems and 2 EFB Systems are defined by FAA: AC (Advisory Circular) 120-76A or JAA: JAA TGL (Temporary Guidance Leaflets) No.36

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

Coverage – 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.

THIS IS THE ONLY WARRANTY THAT PCI MAKES RESPECTING THE SOFTWARE MEDIA. PCI does not warrant the software. Please refer to the software licensor's written warranty (accompanying the copy of the software) for any software warranty claim.

Claim Procedure – In the event of a defect in material or workmanship in the media during the sixty (60) days warranty period, and you return it, transportation costs prepaid, to Panasonic Canada Inc., Computer Products Marketing, 5770 Ambler Drive, Mississauga, Ontario L4W 2T3, within the warranty period, together with a copy of your purchase receipt, and an explanation of the suspected defect, PCI will replace in Canada the defective disk(s) or other media.

Remedy – PCI's entire liability, and your only remedy for any breach of this software media warranty is limited to replacement of the media only. It does not cover any other damages, including, but not limited to, loss of use or profit loss, or special, indirect or consequential damages, or other claims, whether or not of similar character.

No Coverage – This limited warranty does not apply if the disk(s) or other media has been used in other than a Panasonic product, or in environmental conditions other than those specified by PCI or the manufacturer, or if subjected to misuse, neglect, mishandling, modification or attempted modification of the program, or if damaged by accident or act of God. PCI is not responsible for damage to or loss of any program, data or removable storage media.

GENERAL

NO OTHER WARRANTIES – PCI DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SOFTWARE, SOFTWARE MEDIA, COMPUTER PRODUCT, OPTIONS AND ACCESSORIES.

NO LIABILITY FOR CONSEQUENTIAL DAMAGES – IN NO EVENT SHALL PCI BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING FROM ANY BREACH OF THE LIMITED WARRANTIES SET OUT IN THIS DOCUMENT, OR FROM THE USE OF THE COMPUTER PRODUCT, INCLUDING, WITHOUT LIMITATION, LOSS OF DATA, BUSINESS, PROFIT OR GOODWILL.

IN ANY EVENT, PCI'S MAXIMUM LIABILITY FOR ANY BREACH SHALL NOT EXCEED THE AMOUNT ACTUALLY PAID BY YOU FOR THE COMPUTER PRODUCT.

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

Statutory Warranties – Some jurisdictions do not allow these limitations or exclusions, so they may not apply to you.

GARANTIE LIMITÉE

Pour le Canada

GARANTIE LIMITÉE – ORDINATEURS ET PÉRIPHÉRIQUES PANASONIC

Couverture – Panasonic Canada Inc. (« PCI ») garantit à l'acheteur original que ce produit informatique (à l'exclusion des supports des logiciels) est, au moment de sa vente par PCI ou d'un revendeur agréé par PCI, exempt de défauts de pièces et de fabrication dans les conditions normales d'utilisation, et ce, pendant la période de couverture de la garantie, sous réserve des modalités décrites ci-dessous.

| Éléments couverts | Durée de couverture | Type de couverture |
|--|---|-------------------------------------|
| <ul style="list-style-type: none">Ordinateurs blocs-notes (sauf batteries) et adaptateur secteurOptions installées en usine/par PCI incluant : WAN sans fil, GPS, Bluetooth, lecteur d'empreintes digitales, clavier rétroéclairé, carte mémoire et lecteurs (disquettes, CD/DVD)Écran mobile sans filEnsembles PDRC – ACL et clavierDuplicateur de port | Trois (3) ans à partir de la date d'achat original. | Défauts de pièces et de fabrication |
| <ul style="list-style-type: none">Ordinateurs de pocheBatterieChargeur de batterieAdaptateur pour voiturePériphériques USB | Un (1) an à partir de la date d'achat original. | Défauts de pièces et de fabrication |
| Stylo pointeur standard ou pour numériseur graphique | Quatre-vingt-dix (90) jours à partir de la date d'achat original. | Défauts de pièces et de fabrication |
| Tous les articles consommables incluant les pellicules protectrices, chiffons de nettoyage, étuis de transport, longes et sangles | Aucune couverture | |

Recours – Pour obtenir des informations sur la marche à suivre dans le cas où une réclamation en vertu de la garantie deviendrait nécessaire, communiquez par téléphone avec un représentant de PCI au 1-800-668-8386, entre 9h00 et 17h00 (heure de l'Est) du lundi au vendredi (sauf les jours fériés), avant l'échéance de la garantie applicable, en prenant soin d'identifier la nature de la défaillance. Un reçu ou toute autre pièce justificative de la date d'achat original sera exigé avant toute réparation. Toute pièce défectueuse couverte par la présente garantie limitée sera réparée ou remplacée par une pièce neuve ou remise à neuf. Le remplacement ou la réparation sera fait conformément aux modalités de la présente garantie limitée pendant la durée restante de la période originale de la garantie.

Produits non couverts – La présente garantie limitée ne couvre pas les produits achetés à l'extérieur du Canada. Elle ne couvre pas non plus les dommages, la défaillance ou les défauts attribuables à une manutention inadéquate, une mauvaise installation, une utilisation anormale ou abusive, de la négligence, un accident, un déversement ou la pénétration d'un objet étranger, une modification, un cas fortuit ou une réparation effectuée par une personne non agréée par PCI.

CE PRODUIT N'EST PAS DESTINÉ À ÊTRE UTILISÉ, EN TOUT OU EN PARTIE, COMME SYSTÈME/ÉQUIPEMENT NUCLÉAIRE, SYSTÈME/ÉQUIPEMENT DE CONTRÔLE DU TRAFFIC AÉRIEN OU SYSTÈME/ÉQUIPEMENT DE POSTE DE PILOTAGE D'AVION³, PANASONIC DÉCLINE TOUTE RESPONSABILITÉ CONCERNANT L'UTILISATION DE CE PRODUIT DANS LES CAS SUSMENTIONNÉS.

³ Les SYSTÈMES/ÉQUIPEMENTS DE POSTE DE PILOTAGE D'AVION sont dotés de systèmes OEPP (organiseur électronique de poste de pilotage) de classe 2 et de classe 1 utilisés pendant des phases critiques de vol (par exemple, pendant le décollage et l'atterrissement) et/ou montés sur l'avion. Les systèmes OEPP de classe 1 et de classe 2 sont définis par le circulaire d'information FAA: AC (Advisory Circular) 120-76A ou le feuillet n° 36 JAA: JAA TGL (Temporary Guidance Leaflets) No 36.

EXPÉDITION DU PRODUIT POUR SERVICE SOUS GARANTIE

Emballez soigneusement le produit, de préférence dans son emballage d'origine. Joignez une description de la défaillance de même qu'une pièce justificative de la date d'achat. Panasonic Canada Inc. ne peut être tenue responsable pour tout dommage ou perte subi pendant le transport si vous avez choisi le transporteur.

GARANTIE LIMITÉE – SUPPORTS DES LOGICIELS

Couverture – Panasonic Canada Inc. (« PCI ») garantit à l'acheteur original que la ou les disquettes ou tout autre support sur lequel le ou les programmes sont fournis sont exempts de défauts de pièces et de fabrication dans des conditions normales d'utilisation au Canada, et ce, pour une période de soixante (60) jours suivant la date de réception indiquée sur la preuve d'achat.

LA PRÉSENTE GARANTIE EST LA SEULE OFFERTE PAR PCI COUVRANT LES SUPPORTS DE LOGICIELS. PCI ne garantit pas les logiciels. Reportez-vous à la garantie écrite du concédant de licence d'utilisation du logiciel (qui accompagne la copie du logiciel) pour toute réclamation en vertu de la garantie.

Réclamation – marche à suivre – Panasonic Canada Inc. remplacera toute disquette ou support défectueux si l'article en question est retourné, port payé, à son service de Marketing – produits informatiques, 5770 Ambler Drive, Mississauga (Ontario) L4W 2T3, dans les soixante (60) jours suivant la date d'achat original. Joignez à votre envoi une pièce justificative de votre achat et une description du problème.

Recours – La responsabilité de PCI - et votre seul recours - dans le cas de toute défaillance couverte par la garantie sur ce support de logiciel est limitée au seul remplacement du support. Elle ne couvre aucun autre dommage, y compris, mais non exclusivement, la perte d'usage ou de profits, ni aucun dommage spécial, indirect ou consécutif, ni aucune autre réclamation de nature similaire ou autre.

Produits non couverts – La présente garantie limitée ne s'applique pas si la ou les disquettes ou autre support ont été utilisés dans un produit d'une marque autre que Panasonic ou dans des conditions environnementales autres que celles spécifiées par PCI ou le fabricant, ou soumis à une mauvaise utilisation, à la négligence, à une manutention inadéquate ou encore si le programme a été modifié ou subi une tentative de modification ou des dommages attribuables à un accident ou à un cas fortuit. De plus, PCI n'assume aucune responsabilité pour toute perte de, ou tout dommage à, un programme, des données ou un support de sauvegarde amovible.

GÉNÉRALITÉS

PCI NE RECONNAÎT AUCUNE AUTRE GARANTIE, EXPLICITE OU IMPLICITE, Y COMPRIS, MAIS NON EXCLUSIVEMENT, LES GARANTIES IMPLICITES DE VALEUR COMMERCIALE ET D'UTILITÉ À UNE FIN QUELCONQUE, À L'ÉGARD DU LOGICIEL, SUPPORTS DE LOGICIELS, PRODUITS INFORMATIQUES, PÉRIPHÉRIQUES ET ACCESSOIRES.

SOUZ AUCUNE CIRCONSTANCE PCI NE POURRA ÊTRE TENUE RESPONSABLE DES DOMMAGES SPÉCIAUX, INDIRECTS OU CONSÉCUTIFS ATTRIBUABLES À UN MANQUEMENT AUX GARANTIES LIMITÉES DÉCRITES DANS LE PRÉSENT DOCUMENT OU À L'UTILISATION DU PRODUIT INFORMATIQUE, Y COMPRIS, SANS RESTRICTION, LA PERTE DE DONNÉES, D'AFFAIRES, D'ACHALANDAGE OU DE PROFIT.

DANS TOUS LES CAS, LA RESPONSABILITÉ MAXIMALE DE PCI POUR TOUT MANQUEMENT NE POURRA EXCÉDER LE PRIX DE VENTE DU PRODUIT INFORMATIQUE.

AUCUNE RÉCLAMATION, SANS ÉGARD À SES MOTIFS, NE POURRA ÊTRE FAITE AUPRÈS DE PCI PLUS DE DEUX (2) ANS APRÈS LES FAITS INVOQUÉS À LA BASE D'UNE TELLE RÉCLAMATION.

Garantie statutaires – Certaines juridictions interdisent de telles limitations ou exclusions; aussi, pourraient-elles ne pas s'appliquer.

MEMO



As an ENERGY STAR® Partner, Panasonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. By enabling available power management settings, Panasonic computers enter a low-power sleep mode after a period of inactivity, saving the user energy. To learn more about power management, please visit the web site:

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The international ENERGY STAR® Office Equipment Program is an international program that promotes energy saving through the use of computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, displays, printers, facsimiles, and copiers. Their standards and logos are uniform among participating nations.

For information about ENERGY STAR®, refer to the following web site:

Web Site: www.energystar.gov

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