

# Panasonic®

## Personal Computer

# OPERATING INSTRUCTIONS

Model No. **CF-29 Series**

# TOUGHBOOK

**XP 2000**

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#### [Additional Manual]

#### Reference Manual

This manual can be accessed on your computer.  
Refer to page 20 on how to access the Reference Manual.

Getting Started

Operation

Troubleshooting

Appendix

## Customer's Record



Model No.* _____	Dealer's Name _____
Serial No. _____	_____
or	
Code No. _____	Dealer's Address _____
Date of Purchase _____	

\* For the Model No., insert the 12 digit number (for example, CF-29CTKGZKM) located on the bottom of the computer.

## Introduction

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

## Illustrations and Terminology 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.
- Windows XP :** Information for Microsoft® Windows® XP Professional users.
- Windows 2000 :** Information for Microsoft® Windows® 2000 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.
-  : Where to go for referred information.
-  **Reference Manual :** This illustration means to refer to the Reference Manual, which is available on your computer. Refer to page 20 on how to access this manual.
- Some of the illustrations in this manual may differ slightly in shape from the actual items in order to make the explanation easier to understand.
  - The “CD Drive” is a description about drives, such as DVD-ROM, CD-ROM, CD-R/RW, and DVD-ROM & CD-R/RW drives.
  - This manual covers two types of models, as distinguished by the type of LCD screen (models with touchscreen and models without touchscreen).
  - If the user has logged on without the administrator authority, some functions may not be executable, and some screens may be not displayed as shown in this manual. If this happens, log on with the administrator authority to enable these functions.
  - Confirm the latest information on optional products in catalogs, etc.

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# Read Me First

## 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 RF Exposure Warning:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment must be installed and operated in accordance with provided instructions and minimum 2.5 cm spacing must be provided between antenna and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

### FCC Regulation Notice for modem

This equipment contains a FCC approved modem.

Manufacturer of modem: AMBIT Microsystems Corporation  
Model No. T60M283.00

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

1. This equipment complies with CFR47 Part 68 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 advance that temporary discontinuance of service may be required. But if advance 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 its 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.
8. 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.

# Read Me First

10. According to the FCC's electrical safety advisory, we recommend that you may install an AC surge arrester 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."

REN: See bottom of the computer

### Industry Canada

This product complies with RSS210 Industry Canada.

Operation is subject to the following two conditions;

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### 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 tous les dispositifs n'excède pas 5."

IES: Voir sous le fond de l'ordinateur

## 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.

SAVE THESE INSTRUCTIONS

Certaines mesures de sécurité doivent être prises pendant l'utilisation de matériel 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 manuel. 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

## Information to the User

### This product and your Health

This product, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by this product however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because this product operates within the guidelines found in radio frequency safety standards and recommendations, we believe this product is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of this product may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may for example include:

- Using this product on board of airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (e.g. airports), you are encouraged to ask for authorization to use this product prior to turning on the product.

### Regulatory Information

We are not responsible for any radio or television interference caused by unauthorized modification of this product. The correction of interference caused by such unauthorized modification will be the responsibility of the user. We and its authorized resellers or distributors are not liable for damage or violation of government regulations that may arise from failing to comply with these guidelines.

## 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 mis-application 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!

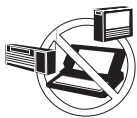
# Read Me First

## Precautions

The CF-29 was developed based on thorough research into the real-world portable computing environments. Exhaustive pursuit of usability and reliability under harsh conditions led to innovations such as the magnesium alloy exterior, vibration damped hard disk drive and floppy disk drive, flexible internal connections. The CF-29's outstanding engineering has been tested using the stiff MIL-STD- 810F (for vibration and shock) and IP (for dust and water) based procedures.

As with any portable computer device precautions should be taken to avoid any damage. The following usage and handling procedures are recommended.

Before putting the computer away, be sure to wipe off any moisture.



### 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.



### 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 when it is completely opened, especially when plugs and/or cables are connected to the rear of the computer.

## 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 an automobile 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 or charger. 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 or charger 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.

## Precautions (Battery Pack)

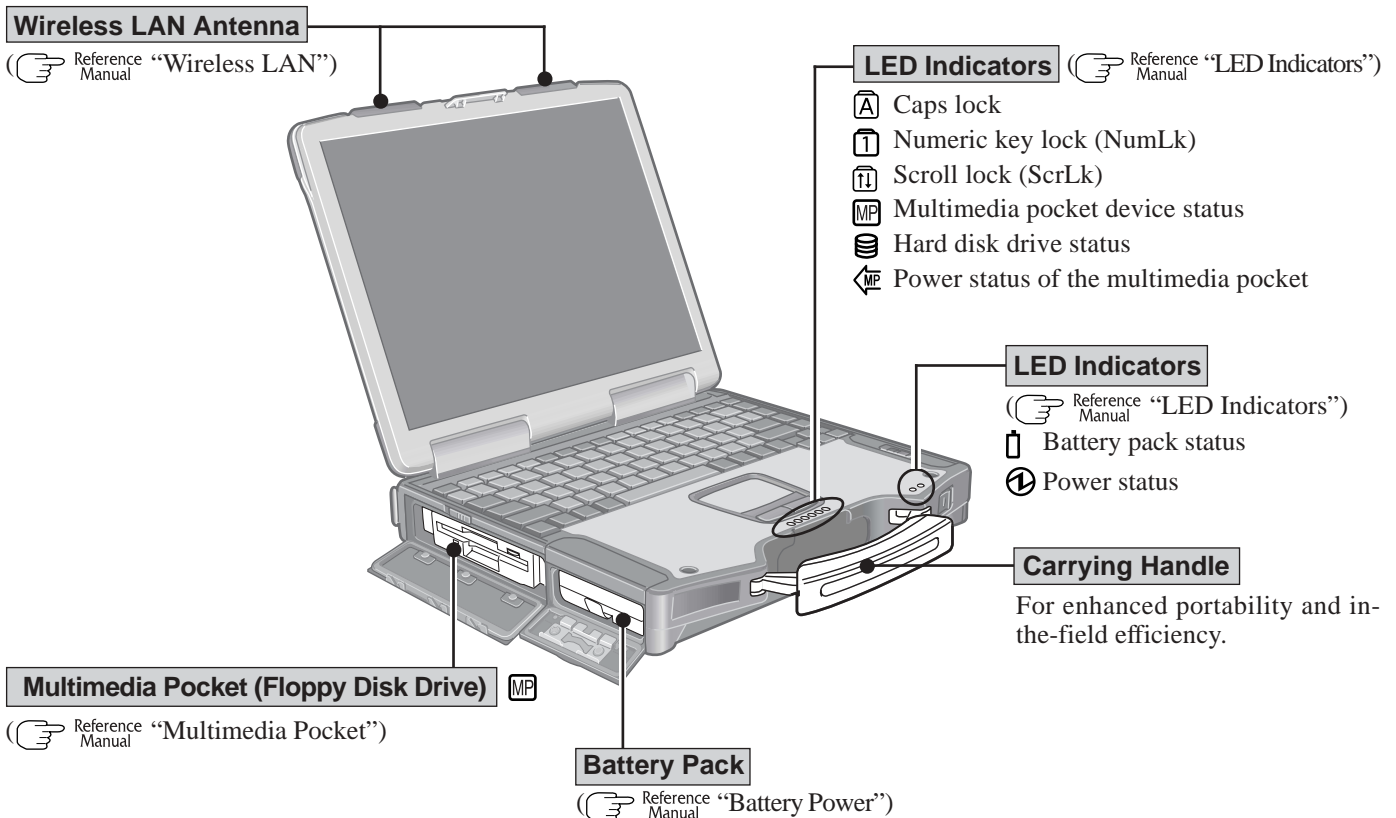
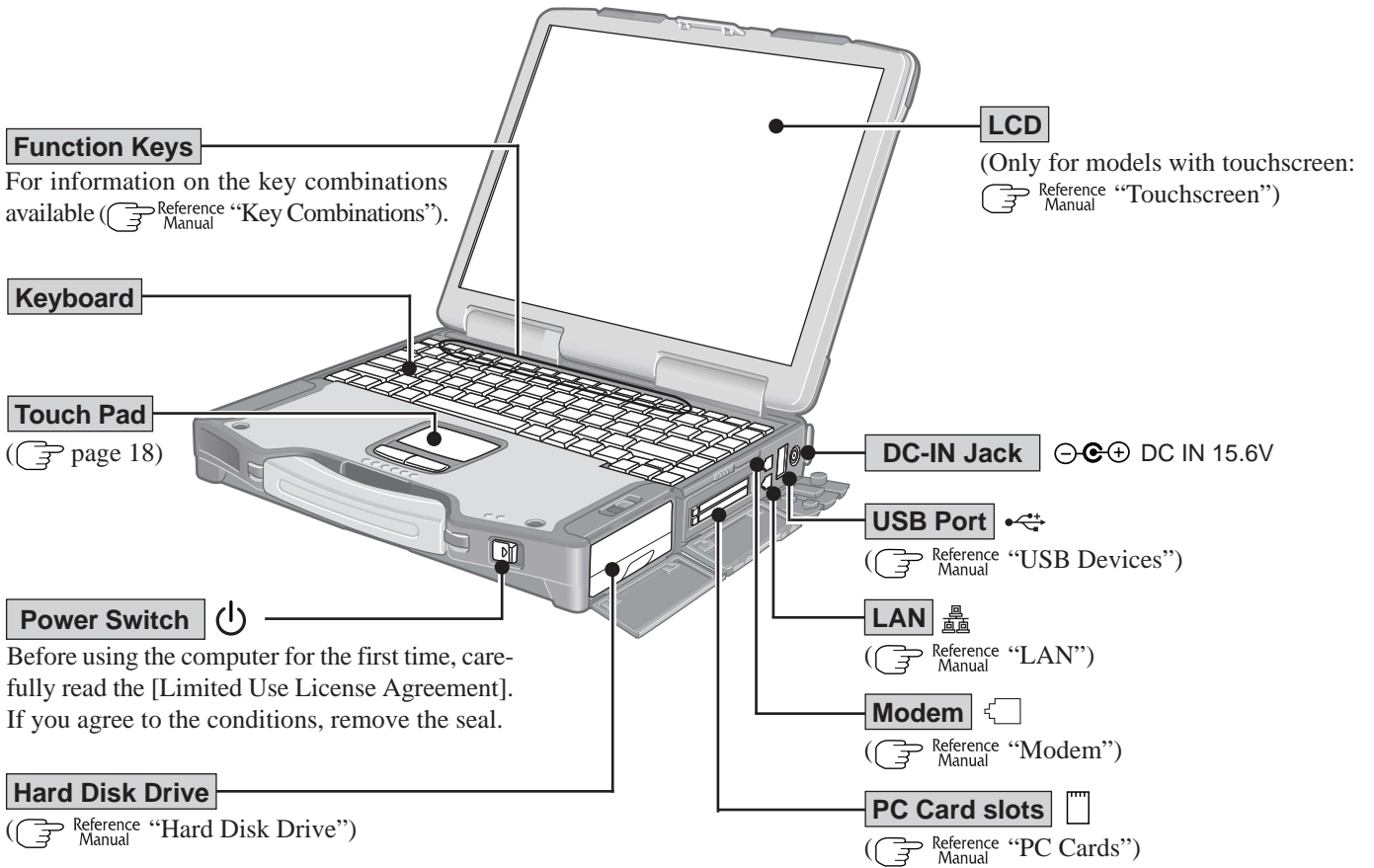
- If the battery pack will not be used for a long period of time (a month or more), charge or discharge (use) the battery pack until the remaining battery level becomes 30% to 40% and store it in a cool, dry place.
- This computer prevents overcharging of the battery by recharging only when the remaining 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

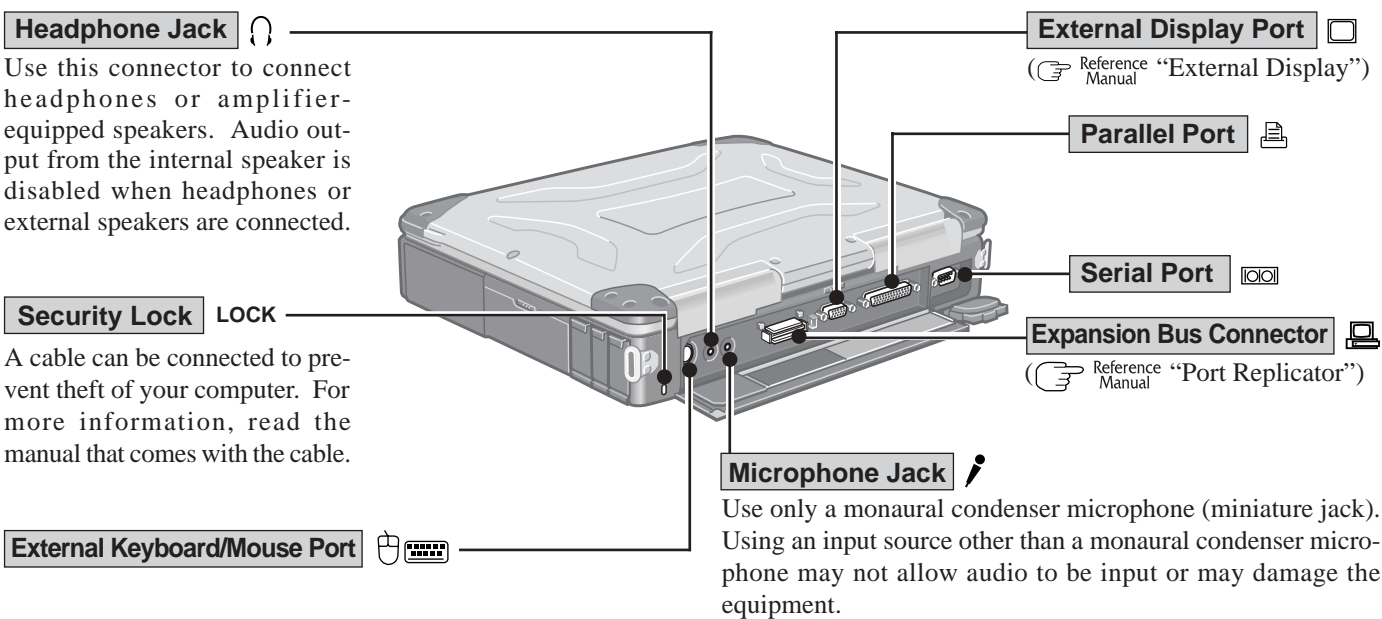
- The battery pack may become warm during recharging or normal use. This is completely normal.
- Recharging will not commence outside of the allowable temperature range (0 °C to 50 °C {32°F to 122 °F})  
 Reference Manual “Battery Power”. Once the allowable range requirement is satisfied, charging begins 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 below.)
- If the temperature is low, the operating time is shortened. Only use the computer within the allowable temperature range.
- This computer has a high temperature mode function that prevents the degradation of the battery in high temperature environments. ( Reference Manual “Battery Power”) If the high temperature mode is enabled in the Setup Utility ( Reference Manual “Setup Utility”), a level of 100% in the [High Temperature] mode is about a level of 80% in the [Normal Temperature] mode.
- 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 do 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.

# Names and Functions of Parts

The illustrations shown may differ from the actual physical appearances.

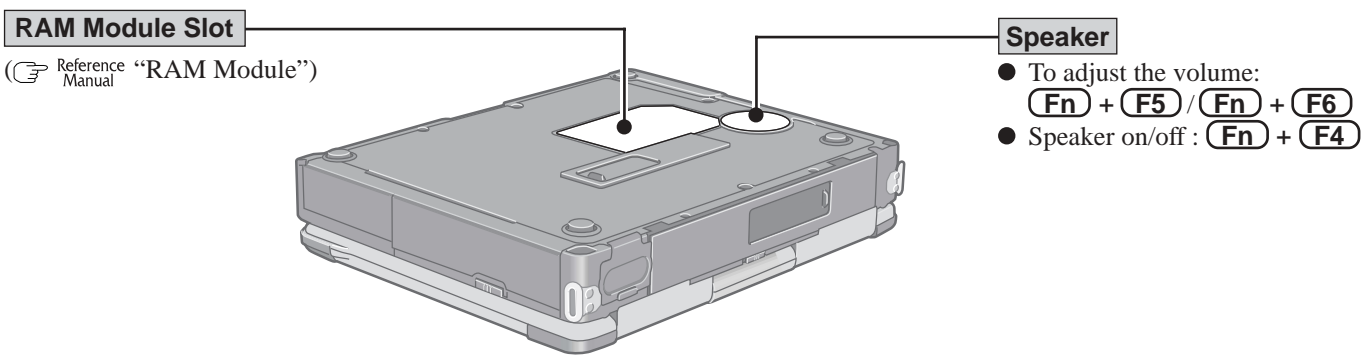







**NOTE**

- When using an external microphone, do not remove the check mark for "Mute" under "Microphone Balance" of the Volume Control dialog box and do not increase the playback volume. Howling may result. Howling may occur in the same way when disconnecting an external microphone. (The microphone of "Volume Control" is in the state of mute at the time of factory shipment. This is not shown at the time of factory shipment.)





A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

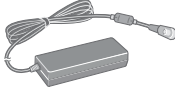

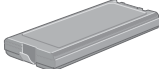

L'appareil que vous vous êtes procuré est alimenté par une batterie au lithium-ion. Pour des renseignements sur le recyclage de la batterie, veuillez composer le 1-800-8-BATTERY.

# 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.

## 1 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 are not working properly, contact Panasonic Technical Support.

<b>AC Adaptor</b> ..... 1	<b>AC Cord</b> ..... 1
 Model No : CF-AA1653A	
<b>Battery Pack</b> ..... 1	<b>Modem Telephone Cable</b> ..... 1
 Model No : CF-VZSU29	
<b>Operating Instructions</b> (This book) ..... 1	
<b>Windows® Book</b> ..... 1	
<b>Product Recovery CD-ROM</b>	
Windows XP ..... 3	
Windows 2000 ..... 2	

<Only for models with touchscreen>

<b>Soft Cloth</b> ..... 1	<b>Stylus</b> ..... 1
	 <small>(Reference Manual "Touchscreen")</small>

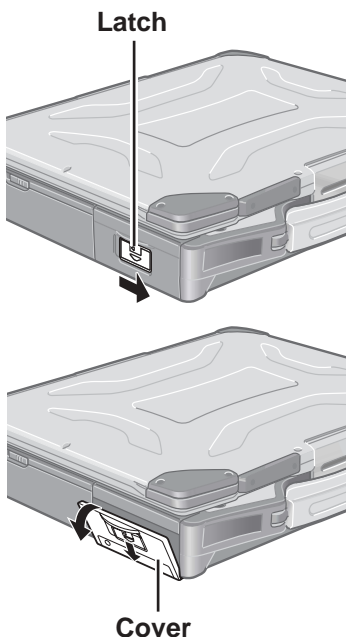
## 2 Read the LIMITED USE LICENSE AGREEMENT. (☞ page 32)

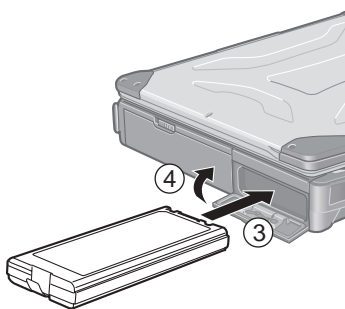
Before removing the seal covering the power switch, read the LIMITED USE LICENSE AGREEMENT.

## 3 Insert the battery pack.

① Unlock the cover by sliding the latch to the right.

② Slide the latch down, and then without releasing it, open the cover as illustrated.





- ③ Slide the battery pack inward until it is firmly in place.

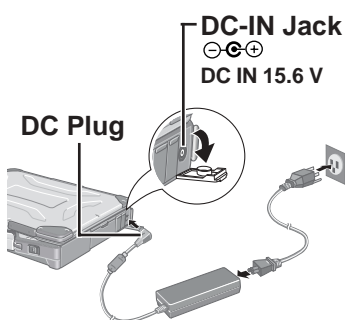
#### CAUTION

- 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.
- Be sure to insert the battery pack as illustrated.

- ④ Close the cover, then lock it by sliding the latch to the left.

#### CAUTION

- Confirm that the latch lock is correctly in place. If you carry your computer without the latch lock in place, the battery pack may fall out.
- Before using the battery pack, carefully read “Precautions (Battery Pack)” (☞ page 6-7).



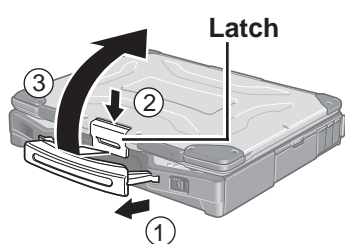
## 4 Connect your computer to a power outlet.

#### CAUTION

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

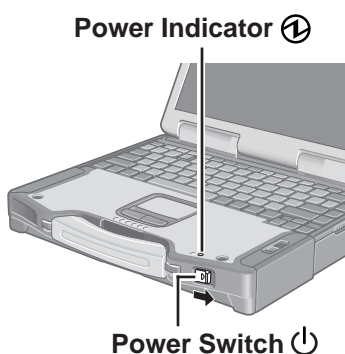
#### Handling the AC adaptor

- 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 the battery pack is installed.



## 5 Open the display.

- ① Pull the carrying handle forward.
- ② Press the latch as illustrated to release it from the computer.
- ③ Lift up the latch and open the display.



## 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 and hold it for more than four seconds; this will cause the power to be turned off forcibly.
- 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.

# First-time Operation

## 7 Setup Windows.

Moving the cursor (⤴) or clicking buttons can be performed with the touch pad.

### NOTE

- The touchscreen does not work properly during the Windows setup.
- During the Windows setup procedure, the desktop will be displayed as a small screen in the center of the LCD. After the setup procedure is completed and the computer is restarted, the desktop will be displayed as a full screen.

### Windows XP

### CAUTION

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

- ① At [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].

### NOTE

- 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 cannot be operated.

- ⑥ Enter the correct date, time and the time zone, then select [Next].

### NOTE

- It may take two to three minutes until the next screen is displayed. Wait, and do not press any keys, or touch the touch pad, etc.

- ⑦ At [Networking Settings], select [Typical settings], then select [Next].
- ⑧ At [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.

### NOTE

- If "Yes, make this computer a member of the following domain" is selected, the following message may be displayed: [An invalid domain was specified. Would you like to proceed for now and try joining a domain later?]. In this case, select [Yes]. After selecting [Yes], the computer will restart automatically, but sometimes the [Starting Windows] message will remain on the screen, and windows will not start up. If this happens, hold **Alt** down while pressing **Tab** until [Network Identification Wizard] is displayed on top, and follow the instructions on the screen.

- ⑨ Enter your administrator password and select **+**.  
Wait until the hard disk drive indicator (Ⓜ) has turned off.

**NOTE**

- If [Windows XP is currently configured to manage the Intel(R) PRO/Wireless LAN adaptor.] is displayed, select [Yes].

**Windows 2000****CAUTION**

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

- ① At [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], 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, 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 cannot be operated.

- ⑥ Enter the correct date, time and the time zone, then select [Next].
- ⑦ At [Networking Settings], select [Typical settings], then select [Next].
- ⑧ At [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 At [Welcome to the Network Identification Wizard], select [Next].
- ⑩ At [Users of This Computer], select [Users must enter a user name and password to use this computer], then select [Next].
- ⑪ Select [Finish].
- ⑫ Enter your administrator password and select [OK].  
Wait until the hard disk drive indicator (Ⓜ) has turned off.

## 8 <Only for models with touchscreen> Calibrate the touchscreen.

**Windows XP**

- ① Select [Start] - [Control Panel] - [Printers and Other Hardware] - [Mouse] - [TouchScreen] - [Calibration].
- ② Touch the "+" mark on the calibration screen with the stylus (included) for about one second.
- ③ After the calibration procedure is executed (e.g., after the nine "+" marks are touched), the procedure ends when **Enter** is pressed.

**Windows 2000**

- ① Select [Start] - [Settings] - [Control Panel] - [Mouse] - [TouchScreen] - [Calibration].
- ② Touch the "+" mark on the calibration screen with the stylus (included) for about one second.
- ③ After the calibration procedure is executed (e.g., after the nine "+" marks are touched), the procedure ends when **Enter** is pressed.

## 9

Windows XP

### Create a new account.

- ① Select [Start] - [Control Panel] - [User Accounts] - [Create a new account].
- ② Follow the instructions on the display to create a user account.
- ③ Select [Start] - [Turn Off Computer] - [Restart] to restart the computer.

#### CAUTION

Remember this password! If the password is forgotten, Windows cannot be operated. You can create a password reset disk beforehand (☞ below).

#### NOTE

##### When creating a new user account:

- If you make mail settings, create password reset disks (☞ below), or conduct other related operations before creating the user account, you will be unable to use any previous mail history or settings.
- When you create the first new account, you can only select [Computer administrator].  
Once a “Computer Administrator” account has been created, you can create additional limited user accounts.  
Note also that only the added user account will be displayed in the Welcome screen. The account for the administrator created during Windows setup will not be displayed.

#### NOTE

- If you use the wireless LAN, be sure to refer to the Reference Manual’s “Wireless LAN”.

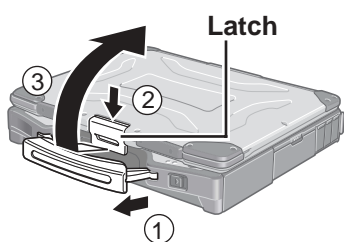
**This concludes the first-time use operation guidelines.**

## Information for Windows XP

- 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.
- 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 of the Windows XP default setting (not 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 Select [Start] - [Control Panel] - [User Accounts].
  - 2 Select [Prevent a forgotten password] from the [Related Tasks] menu of the account you have logged on to 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.

# Starting Up/Shutting Down

## Starting Up

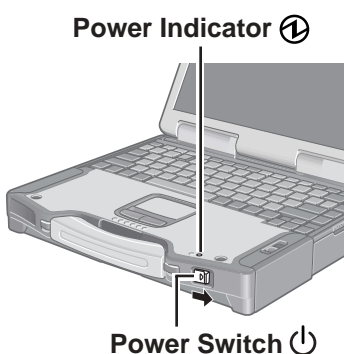


### 1 Open the display.

- 1 Pull the carrying handle forward.
- 2 Press the latch as illustrated to release it from the computer.
- 3 Lift up the latch and open the display.

### 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

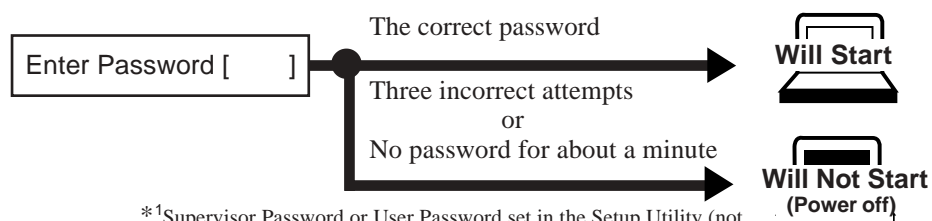
- Under the condition that both the AC adaptor and the port replicator are not connected, the power will not go on if the display is closed.
- While booting, avoid the following until the hard disk drive indicator (HDD) has turned off.
  - Connecting or disconnecting the AC adaptor.
  - Touching the power switch.
  - Performing any keyboard, touch pad, touchscreen (only for models with touchscreen), 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.

#### NOTE

When the power is turned on, sometimes the message “Warming up the system” is displayed or the battery indicator alternately blinks green and orange, and start-up takes longer than usual (a few minutes or more). This function is designed to prevent hard disk drive malfunctions that may occur at low temperatures. Please wait for the computer to start up.

### ● If [Enter Password] is displayed

Enter your password\*<sup>1</sup> and press **Enter**. (Reference “Security Measures”)



\*<sup>1</sup>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 mode has been set (Reference “Standby/Hibernation Functions”).

# Starting Up/Shutting Down

## 3 Log on to Windows.

### Windows XP

After confirming that the hard disk drive indicator (LED) has turned off, select the user and input the password, then select [Enter]. Until the correct password is entered, the computer will not operate.

### Windows 2000

After confirming that the hard disk drive indicator (LED) has turned off, input the user name and password, then select [OK]. Until the correct user name and password are 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, the touchscreen (only for models with touchscreen) 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, the touchscreen (only for models with touchscreen) 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 (see  Reference Manual “Standby/Hibernation Functions”). The computer will resume by sliding the power switch.

### Windows XP

- 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 off all users, and try the operation once more. If the problem persists, restart the computer.



## Shutting Down (power off your computer)

This procedure is for shutting down the computer without using the standby or hibernation function (☞ Reference Manual “Standby/Hibernation Functions”).

**1 Save important data and close each application.**

**2** Windows XP

Select [Start] - [Turn Off Computer].

Windows 2000

Select [Start] - [Shut Down].

**3** Windows XP

Select [Turn Off].

Windows 2000

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

Your computer will power off automatically.

● **Restarting your computer (without shutting down)**

Windows XP

Select [Restart].

Windows 2000

Select [Restart], then select [OK].

### CAUTION

- 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, touchscreen (only for models with touchscreen), or external mouse operations.
  - Closing the display.






### NOTE

- **To shut down using the keyboard,**

Windows XP

Press , **U**, and select [Turn Off] with    , then press **Enter**.

Windows 2000

Press , **U**, and select [Shut down] with    , then press **Enter**.

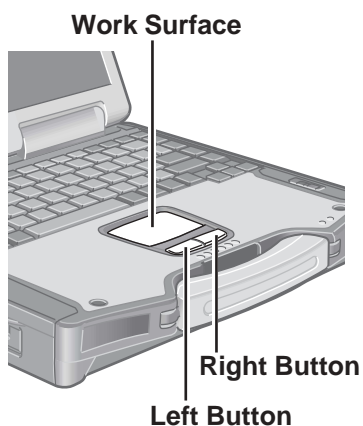
- **To quickly resume computer operation after shutting down,**

The standby or hibernation function is available (☞ Reference Manual “Standby/Hibernation Functions”).



**4 Close the display until the latch clicks into place.**


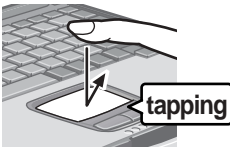
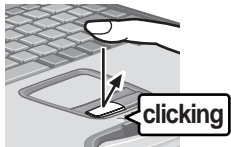
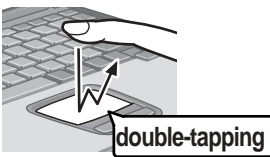
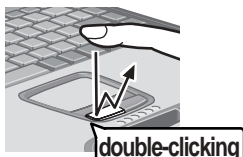


# Touch Pad (Basic Operation)




Use the touch pad to move the cursor on the display and perform normal computer operations. For instructions on how to operate, refer to <sup>Reference</sup> Manual "Touch Pad".

## CAUTION

- By design the touch pad is to be used with a finger tip only. Therefore, do not use any implement which causes damage on the work surface.

Function	Touch Pad Operation	
<b>Moving the Cursor</b>		Move the tip of your finger lightly over the surface.
<b>Tapping/Clicking</b>	 tapping	or  clicking
<b>Double-Tapping/ Double-Clicking</b>	 double-tapping	or  double-clicking
<b>Dragging</b>		or 
	Two quick taps, but on the second tap leaving your finger down (applying pressure) and moving it on the work surface.	While holding down the button, moving your finger on the work surface.

## Handling the Touch Pad

- If a key combination such as **(Fn) + (F5)** is used while the pad is being touched, the function of the key combination will not work. In addition, it is possible that control of the cursor will be lost and the cursor will not show proper movements. In such cases, the computer has to be restarted by using the keyboard (e.g., .
- 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 pen).
- 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 dirt 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 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.

# Reference Manual

The Reference Manual and the Important Tips can be accessed on your computer. When a printer is connected, these manuals can also be printed.

- The Reference 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. (Refer to the cover of this manual for a list of the main contents included.)
- Important Tips provides information on how to maximize use of the battery pack, which is necessary for computing away from your home or office.  
It also offers helpful explanations on how to use the touchscreen more effectively. (only for models with touchscreen)

## Opening the Reference Manual or Important Tips

### ● Reference Manual

Windows XP

Select [Reference Manual] in [Start].

Windows 2000

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

### ● Important Tips

Select  on the desktop.

Important Tips can also be accessed from the following menu.

Windows XP

Select [Important Tips] in [Start] - [All Programs] - [Panasonic] - [On-Line Manuals].

Windows 2000

Select [Important Tips] in [Start] - [Programs] - [Panasonic] - [On-Line Manuals].

When the Reference Manual or Important Tips is started up for the first time, the License Agreement of the Acrobat Reader may be displayed. If it is displayed, after reading the agreement, select [Accept] to access the Reference Manual or Important Tips.

Refer to Acrobat Reader Help to use the Acrobat Reader.

#### NOTE

- Illustrations may be difficult to view depending on the magnification. If the illustration is too small, magnify the display.
- 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.

# Useful Information

## Usage Environment

### ● Environment

- 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.

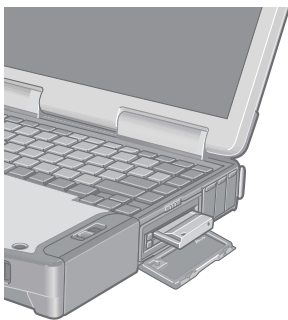
#### Areas with electronic equipment

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.

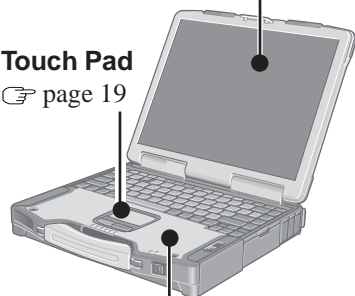
## Handling



- This computer has been designed so as to minimize shock to the LCD and hard disk drive, the leakage of liquid (e.g., water) on to the keyboard, etc., but no warranty is provided against such trouble. Therefore, as a precision instrument, be extremely careful in the handling.
- Do not drop or hit your computer against solid objects.
- Do not carry your computer when it is on.
- Remove all external devices, cables, and PC Cards sticking out of the computer (see the figure on the left) before transporting the computer.
- 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 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.
- 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 when traveling. 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.
- It is a good idea to make backup copies on disks and carry them with you.
- Do not leave a disk in the drive while transporting your computer.

## Maintenance

**Touch Pad**  
☞ page 19



### Display

#### <Models with touchscreen>

Use the Soft Cloth included with the computer. (For more information, refer to “Suggestions About Cleaning the LCD Surface” that come with the soft cloth.)

If the Protective Film becomes dirty or damaged, it may be time to replace your Protective Film. The Protective Film is a disposable item. To find out the model number of your Protective Film, contact Panasonic Technical Support. (For more information, refer to the “Operating Instructions” that come with the Protective Film.)

### CAUTION

Do not touch or use a touchscreen before you re-attach a Protective Film, as you may leave a mark or a scratch on the touchscreen.

#### <Models without touchscreen>

Avoid using water when cleaning the panel. Ingredients included in water may leave residue and reduce readability of the screen.

#### <When cleaning dust/dirt>

Avoid rubbing off dust/dirt with cloth since it may leave scratch on the screen.

Sweep dust/dirt with fine brush, then wipe it with “dry” soft cloth used for cleaning glasses.

#### <When cleaning oily surface>

Apply camera lens cleaner on a soft gauze and clean it with gentle force. Then, wipe with 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.

## Saving Data on the Hard Disk

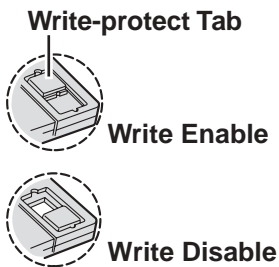
- **Do not expose your computer to shock.**  
Use care when handling your computer, shock may damage your hard disk or make your software applications and data unusable.
  - **Do not power off your computer while software applications are running or hard disk drive indicator (HDD) is on.**  
Properly shut Windows\* down to avoid problems.
  - **Save all valuable data to floppy disks, etc.**  
Backing up data to floppy disks, etc. 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 Manual “Security Measures”)
- \* **Windows XP** : This computer uses Microsoft® Windows® XP Professional.  
\* **Windows 2000** : This computer uses Microsoft® Windows® 2000 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 and 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 complete protection of data.) (☞ Reference Manual “Security Measures”)

# Useful Information

## Saving Data on Floppy Disks



- **Do not power down your computer or press the disk eject button while the MP indicator (MP) is on.**  
Doing so may damage the data on the floppy disk and render the floppy disk useless.
- **Use care when handling floppy disks.**  
To protect the data on your floppy disks or to prevent a floppy disk from becoming stuck in your computer, avoid the following:
  - Sliding the shutter on the floppy disk manually.
  - Exposing the floppy disk to a magnetic field.
  - Storing the floppy disk in locations prone to high temperatures, low pitched noise, dampness, or dust.
  - Applying more than one label on the floppy disk.
- **Confirm the contents of a floppy disk before formatting it.**  
Confirm that no important data is on the floppy disk, because all data on the floppy disk will be erased.
- **Use the write-protect tab.**  
This is a must for preserving important data. This prevents your data from being erased or overwritten.

## Computer Viruses

Users are advised to purchase the latest versions of virus protection software and use them regularly.

We recommend you run the software:

- After 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 and the Reference Manual, carefully read the instruction manuals for the peripheral devices being used.

- Use only peripheral devices that conform to the computer's specifications.
- 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.

## Wireless LAN

- **To prevent theft of data or unauthorized access to the hard disk via a wireless LAN.**  
If you plan to use wireless LAN functions, we recommend that you do so only after making the appropriate security settings, such as for data encryption.

## Windows Update

You can use the latest patches and service packs for Windows with the following menus.  
**Do not apply "Driver Update" even if a message to update a driver appears. If a driver update is required, contact to Panasonic Technical Support.**

Windows XP

[Start] - [All programs] - [Windows Update]

Windows 2000

[Start] - [Windows Update]

## When Changing Hard Disk Partitions

When using the hard disk backup function (☞ page 34), do not divide up the hard disk before creating a backup region. If you do this, the backup region cannot be created. Divide into the partition when the backup region is created.

## 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 the hard disk data erase utility (included) (☞ page 38). (Note that this hard disk data erase utility does not guarantee that data will be completely erased.)

**Also, note that if you transfer ownership of this device without deleting commercial software that you have installed to the hard disk, you may be in violation of the licensing agreement for that software.**

# 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 than 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 is 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.

## **0211 Keyboard error**

Keyboard not working.

## **0212 Keyboard Controller Failed**

Keyboard controller failed test. Requires repair of system board.

## **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 in 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 RAM Failed at address line : *nnnn*

Extended memory not working or not configured properly at offset or address line *nnnn*.

## **0250 System battery is dead - Replace and run SETUP**

The CMOS backup 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. Requires repair of system board.

## **0271 Check date and time settings**

Real-time clock is illegal. Run Setup and set the date and clock.

## **\*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.

## **02D0 System cache error - Cache disabled**

Contact your Panasonic Technical Support.

## **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.

## **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.

## **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.

## **0614 Serial Port A config. error - device disabled**

## **0616 Serial Port B config. error - device disabled**


Serial Device I/O Address or IRQ are in conflict. Change the I/O Address or IRQ in the Setup Utility.



# 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. You can use the PC Information Viewer to check the computer’s usage status. (Reference Manual “Dealing with Problems (Advanced)”)

## Starting Up

<b>The power indicator or battery indicator is not lit</b>	<ul style="list-style-type: none"> <li>● Check the cable connection for the AC adaptor.</li> <li>● Check to see if a fully charged battery is properly installed.</li> <li>● Remove the battery pack and disconnect the AC adaptor, then connect them again.</li> </ul>
<b>The computer does not operate when a USB device is connected</b>	<ul style="list-style-type: none"> <li>● The computer may not operate when certain USB devices are connected. Disconnect the USB device, or set [Legacy USB Support] to [Disable] in [Security] menu of the Setup Utility.</li> </ul>
<b>[Enter Password] is displayed</b>	Input your Supervisor Password or User Password. If you have forgotten it, contact Panasonic Technical Support.
<b>POST Startup Error(s) is displayed</b>	 page 24
<b>Windows startup, or an operation is extremely slow</b>	<ul style="list-style-type: none"> <li>● Press <b>(F9)</b> in the Setup Utility (Reference Manual “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.)</li> </ul>
<b>The date and time are incorrect</b>	<ul style="list-style-type: none"> <li>● You can set the date and time using the following menu.  <b>Windows XP</b>            [Start] - [Control Panel] - [Date, Time, Language, and Regional Options] - [Date and Time]  <b>Windows 2000</b>            [Start] - [Settings] - [Control Panel] - [Date/Time]         </li> <li>● When the computer is connected to a LAN, confirm the date and time of the server.</li> <li>● If you continue to experience problems, the internal battery maintaining the clock may need to be replaced. Contact Panasonic Technical Support.</li> <li>● This computer will not correctly recognize the date and time starting from the year 2100 A.D.</li> </ul>
<b>When resuming from the standby or hibernation mode, [Enter Password] does not appear even if a password has been set in the Setup Utility</b>	<ul style="list-style-type: none"> <li>● Even when a password has been set in the Setup Utility, [Enter Password] does not appear when the computer resumes from the standby or hibernation mode. If you want to use the security function when using the standby or hibernation mode, use the Windows password as follows:  <b>Windows XP</b>            Select the account to change in [Start] - [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].  <b>Windows 2000</b>            Set the password in [Start] - [Settings] - [Control Panel] - [Users and Passwords], then add the check mark for [Prompt for password when computer goes off standby] in [Control Panel] - [Power Options] - [Advanced].         </li> </ul>
<b>When “Invalid system disk. Replace the disk, and then press any key.” (or a similar message) is displayed</b>	<ul style="list-style-type: none"> <li>● This means a floppy disk that does not contain system startup information has been left in the floppy disk drive. Remove the floppy disk, and press any key.</li> <li>● This message may appear when certain USB devices are connected. Remove the USB device, or set [Legacy USB support] in [Security] menu of the Setup Utility to [Disable].</li> <li>● If the message still appears even after trying the above two measures, this may be an indication that some type of hard disk failure has occurred. Contact Panasonic Technical Support.</li> </ul>

# Dealing with Problems (Summary)

## Starting Up (continued)

<p><b>When the administrator password is forgotten</b></p>	<ul style="list-style-type: none"> <li>● Set the password again in the following procedure.           <ul style="list-style-type: none"> <li><b>Windows XP</b> If you have created a password reset disk (☞ page 14 ), 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.</li> <li>If you have not created a password reset disk, after reinstalling, setup Windows and then set the password again.</li> <li><b>Windows 2000</b> After reinstalling, setup Windows and then set the password again.</li> </ul> </li> </ul>
<p><b>When the previous item is not the cause</b></p>	<ul style="list-style-type: none"> <li>● Press <b>(F9)</b> in the Setup Utility (☞ <small>Reference Manual</small> “Setup Utility”). This will restore the Setup Utility’s settings to their default values (except the password settings).</li> <li>● Try removing all peripheral devices.</li> <li>● Check a disk error using the following procedure.           <ol style="list-style-type: none"> <li>1 Display [Local Disk(C:) Properties].               <ul style="list-style-type: none"> <li><b>Windows XP</b> Select [Local Disk(C:)] with the right button in [start] - [My Computer], and select [Properties].</li> <li><b>Windows 2000</b> Select [Local Disk(C:)] with the right button in [My Computer], and select [Properties].</li> </ul> </li> <li>2 Select [Tools] - [Check Now].</li> <li>3 Select [Start] after selecting required items in [Check disk options].</li> </ol> </li> <li>● At startup, hold down <b>(F8)</b> when [Panasonic] boot screen disappears, and release your finger when the Windows Advanced Option Menu is displayed. Start the computer in Safe Mode, and confirm the details of the error.</li> </ul>

## ● Display

<p>No display after powering on</p>	<ul style="list-style-type: none"> <li>● When there is no display to an external display, <ul style="list-style-type: none"> <li>• Check your cable connection to the external display.</li> <li>• Confirm your display is powered on.</li> <li>• Check the settings for your external display.</li> </ul> </li> <li>● The display destination may be set to the external display. Try changing the display destination by pressing <b>(Fn) + (F3)</b>. If you want to switch the display destination repeatedly by pressing <b>(Fn) + (F3)</b>, make sure that the display destination has switched completely each time before pressing <b>(Fn) + (F3)</b> again.</li> </ul>
<p>The power has not been turned off, but after a certain period of time, there is no display</p>	<ul style="list-style-type: none"> <li>● 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 <b>(Ctrl)</b>.</li> <li>● To save power, your computer may have automatically entered the standby mode (power indicator blinks green) or hibernation mode (power indicator turns off). In such cases, slide the power switch.</li> </ul>
<p>When the battery pack is used, the screen is darker than when the AC adaptor is connected</p>	<ul style="list-style-type: none"> <li>● Press <b>(Fn) + (F2)</b> and adjust the brightness. Note, however, that when the brightness is increased, the battery running time will become shorter. Brightness can be set to separate levels for when the AC adaptor is connected and when it is disconnected.</li> </ul>
<p>An afterimage appears (e.g., green, red, and blue dots remain on the display) or there are dots not displaying the correct colors</p>	<ul style="list-style-type: none"> <li>● 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.</li> <li>● 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.</li> </ul>
<p>The external display no longer displays properly</p>	<ul style="list-style-type: none"> <li>● When an external display not compatible with the power saving mode is used with the computer, the display may not function correctly when the computer enters the power saving mode. In such cases, turn off the power to the external display.</li> </ul>
<p>During simultaneous display, the screen of the external display becomes disordered</p>	<ul style="list-style-type: none"> <li>● Try changing the display by pressing <b>(Fn) + (F3)</b>.</li> <li>● If you continue to experience problems, try changing the display in the following menu. <ul style="list-style-type: none"> <li><b>Windows XP</b> [Start] - [Control Panel] - [Other Control Panel Options] - [Intel(R) Extreme Graphics] - [Devices]</li> <li><b>Windows 2000</b> [Start] - [Settings] - [Control Panel] - [Intel(R) Extreme Graphics] - [Devices]</li> </ul> </li> </ul>
<p>When an MPEG file is being played with Media Player, the display destination cannot be switched using <b>(Fn) + (F3)</b></p>	<ul style="list-style-type: none"> <li>● The display destination cannot be switched while an MPEG file is playing. Stop playing the MPEG file before switching the display destination.</li> </ul>

## ● Shutting Down








<p>Windows cannot be shut down or restarted</p>	<ul style="list-style-type: none"> <li>● If a USB device is connected, try removing it.</li> </ul>
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# Dealing with Problems (Summary)

## ● Battery Indicator

<b>The red indicator lights.</b>	The battery level is very low (the charge is less than approx. 9% capacity). Connect the AC adaptor. You can use the computer when the indicator light is orange. If you do not have an AC adaptor, save your data and power off your computer. After replacing the battery pack with a fully charged one, turn your computer on.
<b>The red indicator blinks</b>	Quickly save your data and power off your computer. Remove the battery pack and disconnect the AC adaptor, then connect them again. If the problem persists, contact Panasonic Technical Support. Possible failure in the battery pack or charging circuit.
<b>The orange indicator blinks</b>	Battery cannot be recharged temporarily because the internal temperature of the battery pack is outside of the acceptable temperature range for recharging. Once the allowable range requirement is satisfied, charging begins automatically. Your computer can be used normally in this state.
<b>The green indicator blinks</b>	In high temperature mode, the battery pack is discharging to a level of 80%* in normal temperature mode. (☞ <sup>Reference Manual</sup> “Battery Power”) Do not remove the battery pack while the battery indicator is blinking green. * A level of 80% in normal temperature mode is displayed as [100%] in high temperature mode.
<b>The battery indicator blinks green and orange alternately</b>	Warming up the system to prevent hard disk drive malfunctions at low temperature. Leave your computer as is. Once the allowable temperature range requirement is satisfied, your computer will start automatically.

## ● Touch Pad/Touchscreen (only for models with touchscreen)

<b>The cursor cannot be controlled properly</b>	<ul style="list-style-type: none"> <li>● If you are using an external mouse, ensure that the external mouse has been connected correctly.</li> <li>● Restart the computer by using the keyboard (Press , , and select [Restart] with    , then press ).</li> <li>● If the computer does not respond to keyboard commands, read “No response” (☞ page 29).</li> </ul>
<b>The cursor does not move in scrolling area of the touch pad</b>	<ul style="list-style-type: none"> <li>● When the Microsoft® IntelliMouse™ Wheel mode or the original mode is set for the touch 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 operations.</li> </ul>
<b>Unable to input using the touch pad</b>	<ul style="list-style-type: none"> <li>● Has the Setup Utility been used to set [Touch Pad] to [Enable]?</li> <li>● When external mouse drivers are installed (e.g., Intellimouse), the touch pad may not be used.</li> <li>● Has the touch pad driver been properly installed?</li> </ul>
<b>Unable to point correctly with the stylus included with the computer</b>	<ul style="list-style-type: none"> <li>● As a result of the physical characteristics of the Touchscreen, sometimes the position of the stylus does not match the position of the cursor on the screen. This is not a malfunction. Perform [Calibration] (☞ page 13).</li> </ul>
<b>Unable to input by touching the display</b>	<ul style="list-style-type: none"> <li>● Has the Setup Utility been used to set [Touchscreen] to [Enable]?</li> <li>● When mouse drivers are installed (i.e. IntelliMouse), the touchscreen is unable to be used.</li> <li>● Has the touchscreen driver been properly installed?</li> </ul>

## ● Reference Manual

<b>The Reference Manual is not displayed</b>	Is Acrobat Reader installed? If Acrobat Reader is not installed, run [c:\util\reader\acroreader51_enu_full.exe] in [Start] - [Run] to reinstall the program. When installing the program, do not change the installation destination folder. If the destination folder is changed, the Reference Manual cannot be opened from the [Start] menu.
--	--

## ● Fast User Switching function Windows XP

<b>Some applications may not work properly</b>	<p>When switching to a different user with the Fast User Switching function, the following problems may occur.</p> <ul style="list-style-type: none"><li>• Some applications may not work properly.</li><li>• Key combinations with the Fn key may not work.</li><li>• It may not be possible to set the settings of the display.</li><li>• The wireless LAN cannot be used.</li><li>• A serial mouse may not work.</li></ul> <p>In this case, log off all users, and try the operation once more. If the problem persists, restart the computer.</p>
--	---

## ● Others

<b>No response</b>	<ul style="list-style-type: none"><li>● Press <b>(Ctrl) + (Shift) + (Esc)</b> to open Task Manager and close the software application which is not responding.</li><li>● After shutting down by sliding the power switch for more than four seconds, sliding the power switch to power on and open the application again. If the program no longer works normally, delete the program using the following menu. Then reinstall the program. <span style="background-color: #cccccc; border: 1px solid black; border-radius: 5px; padding: 2px;">Windows XP</span> : [Start] - [Control Panel] - [Add or Remove Programs] <span style="background-color: #cccccc; border: 1px solid black; border-radius: 5px; padding: 2px;">Windows 2000</span> : [Start] - [Settings] - [Control Panel] - [Add/Remove Programs]</li></ul>
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# Reinstalling Software

When reinstallation procedure is performed, the contents of the hard disk will be erased. Be sure to back up any critical data on your hard disk to another media or to an external hard disk before running the reinstallation procedure.

The reinstallation procedure will return the computer to its original condition.

Even if a hard disk backup area has been created, this backup area will be erased, and all the backed up data will be lost. (This is not the case when Windows is reinstalled in the first partition.)

- If you have created partitions for data, the data may be erased or become corrupt as a result of the reinstallation procedure.

## Before Reinstallation

### ● Preparing

- Product Recovery CD-ROM (included)
- Panasonic CD drive (optional: Confirm the latest information on optional products in catalogs, etc.)

### ● Important

- Before the reinstallation procedure, remove all peripherals (except for the CD drive).
- Be sure the AC adaptor is connected until the reinstallation procedure is completed.

## Reinstalling

- 1 Turn off the computer and insert the CD drive into the multimedia pocket. (☞ Reference Manual "Multimedia Pocket")
- 2 Turn on the computer, and press **(F2)** while [Panasonic] boot screen is displayed.  
The Setup Utility will start up.  
If the password has been set, enter the Supervisor Password.
- 3 Write down all of the contents of the Setup Utility and then press **(F9)**.  
At the confirmation message, select [Yes] and press **(Enter)**.
- 4 Select [Boot] menu, then select [CD Drive] and press **(F6)** until [CD Drive] is at the top of the [Boot] menu.
- 5 Place the disc number one of the recovery CDs into the CD drive.
- 6 Press **(F10)**.

At the confirmation message, select [Yes] and press **(Enter)**. The computer will restart.

<When the hard disk backup function has been enabled>  
When the message [The Backup function has been enabled. If [Recovery] or [Erase HDD] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears, press **(Y)**.

This screen should appear.

```
-----  
Select a number  
-----  
1. [ Recovery ] Reinstall Windows.  
2. [ Erase HDD ] Erase the whole data on HDD for security.  
3. [ Backup   ] Enable the Backup function.  
-----  
0. [ Cancel   ] Cancel.  
-----
```

- 7 Press [1.[Recovery]].  
The License Agreement screen should appear.
- 8 Press [1. Yes, I agree to the provisions above and wish to continue!].

This screen should appear.

### Windows XP

```
-----  
Select a number  
-----
```

Reinstalling : Windows(R) XP Professional

1. Reinstall Windows to the whole HDD to factory default.
2. Make two partitions, for the operating system and data. And reinstall Windows to the operating system partition.  
(All existing partitions on HDD will be lost.)
3. Reinstall Windows to the first partition.

```
0. Cancel  
-----
```

### Windows 2000

```
-----  
Select a number  
-----
```

Reinstalling : Windows(R) 2000 Professional

1. Reinstall Windows to the whole HDD to factory default.
2. Make two partitions, for the operating system and data. And reinstall Windows to the operating system partition.  
(All existing partitions on HDD will be lost.)
3. Reinstall Windows to the first partition.

```
0. Cancel  
-----
```

- 9 Make a selection from the menu.
  - When selecting [2], enter the basic partition size for the operating system installation and press **(Enter)**.  
(The data partition size is the remainder after subtracting the basic partition size.)

- To select [3], the initial partition size must be 6 GB or more of the hard disk size. Reinstallation cannot be performed with a small partition size.

<When the hard disk backup function has been enabled>  
If you select [1] or [2], the message [The Backup function has been enabled. If [Recovery] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears. In this case, press **(Y)**. However, when [2] is selected, the hard disk backup function cannot be re-enabled because the hard disk has been divided into partitions.

- 10 At the confirmation message, press **(Y)**.  
The operation of reinstallation for the hard disk starts automatically. (The operations take about an hour.)

**CAUTION**

- Do not interrupt the reinstallation procedure before completion, for example by turning off the computer or pressing **(Ctrl) + (Alt) + (Del)**, as this may prevent Windows from starting up, or may cause data to be lost so that the reinstallation procedure cannot be executed.
- When a message appears instructing you to insert the next CD, insert the recovery CD showing the next number in the sequence, and then select **[OK]**. If the message **[The media does not contain the correct file]** appears, select **[OK]**. A message will appear instructing you to insert the next CD. Confirm that the proper recovery CD has been inserted by opening the cover of the CD drive and then close the cover, then select **[OK]**.

- 11 After the reinstallation procedure completes, this screen should appear.  
Remove the recovery CD.

**Windows XP**

```
-----
[Recovery] is complete.
Windows(R) XP Professional install wizard will start after reboot.
Please Remove the Product Recovery CD-ROM, and press
Ctrl + Alt + Del (Delete) to reboot.
-----
```

**Windows 2000**

```
-----
[Recovery] is complete.
Windows(R) 2000 Professional install wizard will start after reboot.
Please Remove the Product Recovery CD-ROM, and press
Ctrl + Alt + Del (Delete) to reboot.
-----
```

- 12 Restart the computer by pressing **(Ctrl) + (Alt) + (Del)** and press **(F2)** while **[Panasonic]** boot screen is displayed.  
The Setup Utility will start up.  
If the password has been set, enter the Supervisor Password.
- 13 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.)
- 14 Press **(F10)**.  
At the confirmation message, select **[Yes]** and press **(Enter)**.
- 15 Perform the setup procedure for Windows by following the instructions on the screen (☞ page 12-14).
- 16 Run the Setup Utility and change the settings where necessary.

**<Changing the drive letter>**

You can change the drive letter for the CD drive or hard disk drive by the following steps.

- Drive letters can only be changed when two or more partitions have been created on the hard disk drive. The name of the C: drive cannot be changed.
- We recommend that you make these changes before installing applications.

**Windows XP**

- 1 Select **[Start]** - **[Control Panel]** - **[Performance and Maintenance]** - **[Administrative Tools]** - **[Computer Management]**.
- 2 Select **[Disk Management]** from **[Storage]**.
- 3 Right click on the partition of the hard disk or the name of the CD drive and select **[Change Drive Letter and Paths...]**.
- 4 Select **[Change]**.
- 5 Select **[Assign the following drive letter]** and select the new drive letter, and then select **[OK]**.
- 6 At the confirmation message, select **[Yes]**.

**Windows 2000**

- 1 Select **[Start]** - **[Settings]** - **[Control Panel]** - **[Administrative Tools]** - **[Computer Management]**.
- 2 Select **[Disk Management]** from **[Storage]**.
- 3 Right click on the partition of the hard disk or the name of the CD drive and select **[Change Drive Letter and Path...]**.
- 4 Select **[Edit]**.
- 5 Select **[Assign a drive letter]** and select the new drive letter, and then select **[OK]**.
- 6 At the confirmation message, select **[Yes]**.

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# Hard Disk Backup Function

The hard disk backup function creates a backup area (storage area) on the hard disk. This area is to back up (store) hard disk contents or restore backed up contents to their original locations.

By backing up the data on your hard disk to a backup area, you can protect your data from loss or damage resulting from operational errors or other factors. Also, you can back up or restore hard disk contents using this computer alone, without having to use other media or peripheral devices.

At the time of purchase, the hard disk backup function is disabled. If you follow the procedure below to create a backup area, the hard disk backup function will be enabled, and you will be able to back up your data. Note, that once the backup function has been enabled, you will have to perform the reinstallation procedure to disable it again (☞ page 30).

The hard disk backup function cannot back up or restore data properly if there is a problem with the hard disk when the data is backed up or restored. Note that if an error occurs while data is being restored, whether as a result of an unexpected malfunction, incorrect operation, or other reason, the data in the hard disk (data before restoration) may be lost.

Matsushita Electric Industrial Co., Ltd. will bear no responsibility for any damages suffered by the user (including loss of data) as a result of the use of this function.

## Preparing

- Product Recovery CD-ROM (included)
- Panasonic CD drive (optional: Confirm the latest information on optional products in catalogs, etc.)

## Before Using a Hard Disk Backup Function

- Disconnect or remove all peripheral devices (except for the CD drive), as the backup area may not be created properly while these devices are connected.
- Be sure the AC adaptor is connected to the computer.
- A backup area cannot be created if the hard disk is already divided into several partitions. Return the computer to its condition at the time of purchase (one partition only), and create the backup area.
- To divide the partition, make the selection when the backup area is created (☞ page 33 step 8).
- If the partition configuration is changed (partitions created, size changed, etc.) after the backup area has been created, it will no longer be possible to execute the backup function. To change the configuration, it is necessary to return the computer to its condition at the time of purchase, and then create the backup area again.
- The hard disk backup function will only work for the internal hard disk. This function does not work with an external hard disk.
- Backup and restore functions will not operate if the hard disk has been damaged.
- Do not use the NTFS file system compression function, as this may result in insufficient capacity of the backup area.
- If the hard disk malfunction occurs, it will be impossible to read the data stored hard disk. We recommend that you also back up important data to a location other than the hard disk (an external hard disk or other media).
- Execute a disk error check using the following procedure.
  - 1 Display the [Local Disk(C:) properties].
    - Windows XP**  
Select [Local Disk(C:)] with the right button in [Start] - [My Computer], and select [Properties].
    - Windows 2000**  
Select [Local Disk(C:)] with the right button in [My Computer], and select [Properties].
  - 2 Select [Check Now] from [Tools].
  - 3 In [Check Disk], select [Start] without adding a check mark beside any of the items.  
If a message is displayed indicating that there is an error in the disk, display [Check Disk], and add a check mark for [Automatically fix file system errors] and [Scan for and attempt recovery of bad sectors], select [Start], and check for disk errors again.
- The hard disk backup function does not accommodate dynamic disks. Do not convert the hard disk to a dynamic disk.

(To next page)

### NOTE

- Regarding backup area
  - Requires availability of at least half of the entire hard disk. Without sufficient space available, the backup area cannot be created.
  - When the backup area is created, the usable hard disk capacity will be reduced to less than half.
  - The backup area cannot be accessed from Windows. For this reason, backed up data cannot be copied to CD-R or other removable disk media.
  - When the hard disk backup function is executed, data in the backup area will be overwritten. If newly created or edited data is backed up later, data stored previously in the backup area will be lost.

## Create a Backup Area

- 1 Turn off the computer and insert the CD drive into the multimedia pocket. (☞ Reference “Multi-media Pocket”)
- 2 Turn the computer on, and press **(F2)** while [Panasonic] boot screen is displayed. The Setup Utility will then start.  
If a password has been set, enter the Supervisor Password. You cannot register [Boot] menu with a User Password.
- 3 Select [Boot] menu, then select [CD Drive] and press **(F6)** until [CD Drive] is at the top of the [Boot] menu.
- 4 Place disk number one of the recovery CDs into the CD drive.
- 5 Press **(F10)**.  
At the confirmation message, select [Yes] and press **(Enter)**.  
The computer will restart. If [Input the password] is displayed during the following procedures, input the Supervisor Password or the User Password.  
This screen should appear.

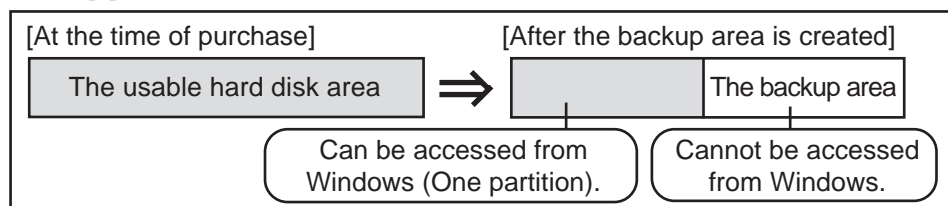
```
-----  
Select a number  
-----  
1. [ Recovery ] Reinstall Windows.  
2. [ Erase HDD ] Erase the whole data on HDD for security.  
3. [ Backup    ] Enable the Backup function.  
  
0. [ Cancel   ] Cancel.  
-----
```

- 6 Press **(3)** to execute [3.Backup].

### CAUTION

- When dividing the hard disk into partitions  
Do not execute [1. Recovery] to divide the hard disk into partitions. The hard disk backup function cannot be enabled after the hard disk has been partitioned. Use procedure **8** to divide the hard disk.

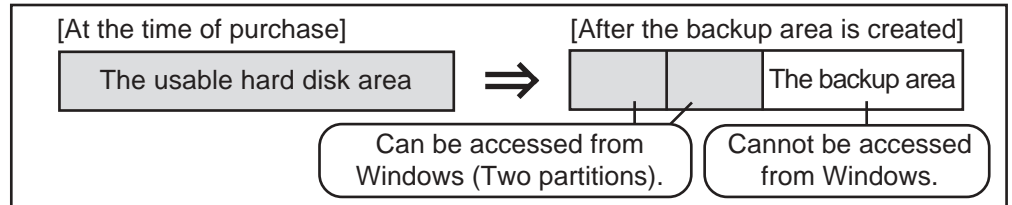
- 7 At the confirmation message, press **(Y)**.
- 8 Select how to divide the hard disk from the menu.  
<To create a backup area and enable the backup function without dividing the hard disk>  
Select [1].



# Hard Disk Backup Function

<To create a backup area and divide hard disk into two partitions, for OS and data>  
Select [2], enter the partition size (GB), and press **Enter**.

- You can cancel this operation by pressing **0**.
- The data partition size will be the maximum settable size less the number entered above. The maximum settable size will differ depending on models.



- 9 When the confirmation message is displayed, press **Y**.  
The backup area is then created.
- 10 When the message [You must reboot in order to enable the Backup function] appears, remove the recovery CD, and press any key to restart the computer. The computer is restarted, then the backup process will begin.
- 11 When the message [[Backup] is complete] appears, press **Ctrl** + **Alt** + **Del** to restart the computer.

## CAUTION

- Do not press **Ctrl** + **Alt** + **Del** until the message is displayed.

- 12 A message will appear advising that a new device has been installed and that the computer must be rebooted to enable the settings. Select [Yes] to restart the computer.

## NOTE

- The [Boot] menu in the setup utility is set to start up from the CD drive. Change this setting if necessary.
- The next time the backup or restore functions are executed, follow the procedure for [Backing Up and Restoring Data] (☞ below).

## Backing Up and Restoring Data

### CAUTION

- Before executing the backup function, execute a disk error check (☞ page 34).
- Do not interrupt the backup or restore functions before completion, for example by turning off the power or pressing **Ctrl** + **Alt** + **Del**, as this may prevent Windows from starting up, or may cause data to be lost so that the backup and restore functions cannot be executed.

- 1 Turn the computer on, and press **F2** while [Panasonic] boot screen is displayed.  
The Setup Utility will start up.  
If a password has been set, enter the Supervisor Password or the User Password.
- 2 Select **←** and **→** to move to the [Exit] menu, then select **↑** and **↓** to select [Hard Disk Backup / Restore] and press **Enter**.  
At the confirmation message, select **Y**, and press **Enter**.

**3** Select the operation to be executed from the menu.

<To back up hard disk contents to the backup area>

① Press **1** to execute [1. [Backup]].

(When dividing the hard disk into two partitions, select the backup method at next screen.)

② At the confirmation message, press **Y**.

The backup process will begin.

<To restore backed up contents to the hard disk>

① Press **2** to execute [2. [Restore]].

(When data is backed up in two partitions, select the restore method at next screen.)

② At the confirmation message, press **Y**.

The restore process will begin.

**NOTE**

- The time required to complete the backup or restore process differs depending on the data volume.

**4** When the message [[Backup] is complete] or [[Restore] is complete] is displayed, press

**Ctrl** + **Alt** + **Del** to restart the computer.

- If the backup or restore process was interrupted before completion, for example if the power was turned off, execute the process again.
- When a new device is installed and a message appears advising that the computer must be restarted to enable the settings, select [Yes] to restart the computer.

**CAUTION**

- When the hard disk backup function has been enabled, even if a commercial data erasing utility or similar software is used to erase all data from user-accessible area, the backed up data will not be erased. You can use the hard disk data erase utility included in this computer (☞ page 36) to erase all data on the hard disk, including backed up data. Use this hard disk data erase utility before disposing of or transferring ownership of this computer.
- Occasionally, the message [#1805 cannot write image file] will be displayed, and the backup function will be interrupted. If this error occurs, execute the backup function again. After this, if the backup function is completed properly, then there is no problem in the hard disk.

● **To disable the hard disk backup function**

Perform the reinstallation procedure. All data in the backup area and the hard disk will be erased.

Conduct steps **1-7** for [Reinstalling Software] (☞ page 30). Select [1] or [2] to execute the reinstallation at the screen for executing the reinstallation.

- When [1] is selected, the hard disk backup function can be disabled.
- When [2] is selected, the hard disk backup function can be disabled, but in this case, because the hard disk has been divided into partitions, the hard disk backup function cannot be re-enabled (☞ page 23).
- When [3] is selected, the hard disk backup function cannot be disabled.

# Hard Disk Data Erase Utility

This computer is equipped with a utility for erasing hard disk data.

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 following the steps below.

The hard disk data erase utility erases data using an “overwriting” method, but there is a possibility that due to malfunctions or other operational errors, data may not be completely erased. There are also specialized devices that may be able to read data that has been erased using this method. If you need to erase highly confidential data, we recommend that you contact a company that specializes in this process. Matsushita Electric Industrial Co., Ltd. will bear no responsibility for losses or damages suffered as a result of the use of this utility.

## Preparing

- Product Recovery CD-ROM (included)
- Panasonic CD drive (optional: Confirm the latest information on optional products in catalogs, etc.)

### NOTE

- Be sure the AC adaptor is connected until the procedure is completed.
- This utility can only be used for internal hard disk. It cannot be used to erase data from external hard disks.
- This utility cannot erase data from damaged disk.
- This utility cannot erase data for specific partitions.
- After executing this utility, the computer cannot be booted from the hard disk.

## Procedure

- 1 Turn off the computer.
- 2 Insert the CD drive into the multimedia pocket. (☞  
Reference “Multimedia Pocket” Manual)
- 3 Turn the computer on, and press **(F2)** while [Panasonic] boot screen is displayed.  
The Setup Utility will start up.  
If the password has been set, enter the Supervisor Password.
- 4 Select [Boot] menu, then select [CD Drive] and press **(F6)** until [CD Drive] is at the top of [Boot] menu.
- 5 Place the disc number one of the recovery CDs into the CD drive.
- 6 Press **(F10)**.  
At the confirmation message, select [Yes] and press **(Enter)**. The computer will restart.  
<When the hard disk backup function has been enabled>  
When the message [The Backup function has been enabled. If [Recovery] or [Erase HDD] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears, press **(Y)**.  
This screen should appear.  

```
-----  
Select a number  
-----  
1. [ Recovery ] Reinstall Windows.  
2. [ Erase HDD ] Erase the whole data on HDD for security.  
3. [ Backup   ] Enable the Backup function.  
  
0. [ Cancel   ] Cancel.  
-----
```
- 7 Press **(2)** to execute [2. [Erase HDD]].  
<When the hard disk backup function has been enabled>  
When the message [The Backup function has been enabled. If [Erase HDD] is executed, the Backup function will be disabled, and your Backup data will be lost.] appears, press **(Y)**.
- 8 When the message [Computer must be rebooted in order to execute [Erase HDD]] appears, press **(R)**.
- 9 At the confirmation message, press **(Y)**.
- 10 When [Start Menu] is displayed, press **(Enter)**.
- 11 The approximate time required for erasing data will be displayed.  
Press **(Space)**.
- 12 At the confirmation message, press **(Enter)**. The operation of erasing the hard disk starts.  
(If necessary, the “hard disk data erase” operation can be cancelled after it has begun by pressing **(Ctrl) + (C)**. If the operation is cancelled before being completed, a part of data will not be erased.)
- 13 After the operation is complete:  
Under normal conditions, the message [Hard disk data has been deleted.] will be displayed.  
If a problem occurred during the operation, an error message will be displayed.
- 14 Remove the recovery CD, then turn off the computer by sliding the power switch.

# Specifications

## ● Main Specifications

<b>Model No.</b>		CF-29CTKGZKM CF-29CTKGZDM	CF-29C3KGZKM CF-29C3KGZDM
<b>CPU</b>		Intel® Pentium®M Processor 1.2 GHz LV	
<b>L2 (Second) Cache Memory</b>		1 MB	
<b>Memory (Expandable to)</b>		256 MB (768 MB Max.)	
<b>Video Memory</b>		UMA (64 MB Max.)*1	
<b>LCD</b>	<b>Type</b>	13.3 XGA type (TFT) with Touchscreen	13.3 XGA type (TFT)
	<b>Displayed Colors*2</b>	256/65536/16M colors (640 x 480 dots/ 800 x 600 dots/1024 x 768 dots)	256/65536/16M colors (640 x 480 dots/ 800 x 600 dots/1024 x 768 dots)
<b>External Display</b>		256/65536/16M colors (640 x 480 dots/800 x 600 dots/1024 x 768 dots/1280 x 1024 dots/1600 x 1200 dots)*3	
<b>Hard Disk Drive</b>		40 GB*4	
<b>Keyboard</b>		87 keys	
<b>Floppy Disk Drive</b>		720 KB/1.44 MB (two-mode)	
<b>Slots</b>	<b>PC Card Slots</b>	Two Type I or Type II, or one Type III	
	<b>Allowable current (total for two slots)</b>	3.3 V: 400 mA 5 V: 400 mA	
	<b>RAM Module Slot*5</b>	200 pin, 2.5 V, SO-DIMM, DDR SDRAM, PC2100 Compliant	
<b>Interface</b>	<b>Parallel Port</b>	Dsub 25-pin female	
	<b>External Display Port</b>	Mini Dsub 15-pin female	
	<b>Serial Port</b>	Dsub 9-pin male	
	<b>Microphone Jack*6</b>	Miniature jack, 3.5 DIA	
	<b>Headphone Jack</b>	Miniature jack, 3.5 DIA, Impedance 32 Ω, Output Power 4 mW x 2	
	<b>External Keyboard/Mouse Port</b>	Mini DIN 6-pin female	
	<b>Expansion Bus Connector</b>	Dedicated 80-pin female	
	<b>USB Port</b>	4-pin, USB 2.0	
	<b>Modem</b>	RJ-11 jack, Data: 56 kbps (V.92 & K56flex*7) FAX:14.4 kbps	
	<b>LAN</b>	RJ-45 jack, IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX	
	<b>Wireless LAN</b>	IEEE 802.11b compliant Frequency 2.4 GHz band	
<b>Pointing Device</b>		Touch Pad, Touchscreen (Anti-Reflection, Stylus (included) touch capable)	Touch Pad
<b>Sound</b>		WAVE and MIDI playback, Monaural Speaker (built in)	

\*1 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.

\*2 A 16M color display is achieved by using the dithering function. **Windows XP** : 256 color depth and the resolution of 640x480 are not supported.

\*3 Maximum resolution depends on the specifications of the external display. **Windows XP** : 256 color depth and the resolution of 640x480 are not supported.

\*4 1GB = 10<sup>9</sup> bytes

\*5 Only a RAM card designed for PC2100 can be added.

\*6 Use only a monaural condenser microphone.

\*7 The settings for the K56flex modem need to be changed according to the AT command.

# Specifications

## ● Main Specifications

<b>Model No.</b>		CF-29CTKGZKM/CF-29CTKGZDM	CF-29C3KGZKM/CF-29C3KGZDM
<b>Battery Pack</b>		Li-ion 11.1 V, 6.6 Ah	
<b>Operating Time<sup>*8</sup></b>		Main battery: Approx. 3.5 hours - 5.5 hours Main battery + Second battery: Approx. 6.5 hours - 10 hours	
<b>Charging Time<sup>*8</sup></b>		<b>Power On</b>	Main battery: Approx. 5.5 hours Main battery + Second battery: Approx. 9.5 hours
		<b>Power Off</b>	Main battery: Approx. 3 hours Main battery + Second battery: Approx. 5.5 hours
<b>Clock Battery</b>		Coin type lithium battery 3.0 V	
<b>AC Adaptor<sup>*9</sup></b>	<b>Input</b>	100 V - 240 V AC, 50 Hz/60 Hz	
	<b>Output</b>	15.6 V DC, 5.0 A	
<b>Power Consumption<sup>*10</sup></b>		Approx. 35 W <sup>*11</sup> / Approx. 55 W (maximum when recharging in the ON state)	
<b>Environment</b>	<b>In use</b>	<b>Temperature</b>	5 °C to 35°C {41 °F to 95 °F}
		<b>Humidity</b>	30% to 80% RH (No condensation)
	<b>Not in use</b>	<b>Temperature</b>	-20 °C to 60 °C {-4 °F to 140 °F}
		<b>Humidity</b>	30% to 90% RH (No condensation)
<b>Physical Dimensions (W x H x D)</b>		302 mm x 63.5 mm(at the rear)/65.5 mm(at the front) x 275 mm {11.9 " x 2.5 "/2.6 " x 10.8 "} (excluding protrusion)	
<b>Weight (including the carrying handle)</b>		Approx. 4.2 kg {Approx. 9.3 lb.}	Approx. 4.1 kg {Approx. 9.0 lb.}

\*8 Varies depending on the usage conditions, CPU speed, etc.

\*9 The AC adaptor is compatible with power sources up to 240 V AC adaptor. The computer is supplied with a 125 V AC compatible AC cord.

\*10 Approx. 0.9 W when the battery pack is fully charged (or not being charged) and the computer is off.

\*11 Rated power consumption.

## ● Software

<b>Model No.</b>	CF-29CTKGZKM/CF-29CRKGZKM CF-29C3KGZKM	CF-29CTKGZDM/CF-29CRKGZDM CF-29C3KGZDM
<b>Operating System</b>	Microsoft® Windows® XP Professional with Service Pack1 (NTFS File System)	Microsoft® Windows® 2000 Professional with Service Pack3 (NTFS File System)
<b>Utility Programs</b>	Setup Utility DMI Viewer Adobe® Acrobat® Reader Panasonic Hand Writing PC Information Viewer Hard Disk Backup Utility <sup>*12</sup> Hard Disk Data Erase Utility <sup>*12</sup> Intel PROSet WLAN Security Client	Setup Utility DMI Viewer Adobe® Acrobat® Reader Panasonic Hand Writing PC Information Viewer Hard Disk Backup Utility <sup>*12</sup> Hard Disk Data Erase Utility <sup>*12</sup> Intel® PROSet WLAN Security Client Intel® SpeedStep™ technology Applet

\*12 The Product Recovery CD-ROM is required.



# LIMITED WARRANTY

**For U.S.A.**

## **PANASONIC PERSONAL COMPUTER AND PERIPHERALS LIMITED WARRANTY**

Panasonic Computer Solutions 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 adaptor 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.

This warranty is 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.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use. It does not cover damage which occurs in shipment or failures which are caused by products not supplied by Panasonic, or 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, modification or service by anyone other than a Factory Service Center or authorized Panasonic Service Dealer, or damage that is attributable to acts of God.

### **Limits and Exclusions:**

There are no other express warranties except as listed below.

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. If a problem with your product develops during or after the warranty period, you may contact our representatives at 1-800-LAPTOP5. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Division at the address indicated below.

## **SOFTWARE LIMITED WARRANTY**

Panasonic Computer 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 materials 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'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.

Anything in the foregoing to the contrary notwithstanding, 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 otherwise than on the Product or in environmental conditions other than those specified by Panasonic by alteration, accident, misuse, abuse, neglect, mishandling, misapplication, installation, maladjustment of consumer controls, improper maintenance, modification of damage that is attributable to acts of God. In addition, Panasonic shall have no obligation for any defects in the disk(s) or other media if you have modified, or attempted to modify any Program.

DURATION OF IMPLIED WARRANTIES, IF ANY, IS LIMITED TO SIXTY (60) DAYS.

PANASONIC ASSUMES NO RISK OF AND SHALL NOT IN ANY CASE BE LIABLE FOR ANY DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES ARISING FROM BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE OR ANY OTHER LEGAL THEORY, INCLUDING, WITHOUT LIMITATION LOSS OF GOODWILL, PROFITS OR REVENUE, LOSS OF USE OF THE PROGRAMS OR PRODUCTS OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES, SERVICES, DOWNTIME COSTS, OR CLAIMS OF ANY PARTY DEALING WITH YOU FOR SUCH DAMAGES.

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.

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 Solutions Company, 50 Meadowlands Parkway, Panazip 2F-5, Secaucus, NJ 07094

# 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
Whole Product (except Batteries), AC adaptor 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 Peripherals, Options and Accessories	One (1) Year from Date of Original End User Customer Purchase	Defective Materials or Workmanship

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---

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# Panasonic®

## Personal Computer

Model No. **CF-18/CF29 Series**

### ENGLISH

This Supplementary Instructions manual gives you information about Bluetooth.

#### Supplementary Instructions for Bluetooth™

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ENGLISH

### DEUTSCH

Diese Zusatzanleitung für Bluetooth enthält wichtige Informationen über den Gebrauch von Bluetooth.

#### Zusatzanleitung für Bluetooth™

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DEUTSCH

### FRANÇAIS

Ce manuel d'instructions supplémentaires fournit des informations sur Bluetooth.


#### Instructions supplémentaires pour Bluetooth™

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FRANÇAIS

# Read Me First


## Illustrations and Terminology 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.
- Windows 2000** : Information for Microsoft® Windows® 2000 Professional users.
- Windows XP** : Information for Microsoft® Windows® XP Professional or Windows® XP Tablet PC Edition users.
- [Start] - [Run]: This illustration means to click [Start], then to click [Run].  
(For some applications, you may need to double-click.)
- : Where to go for referred information.

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## For U.S.A.

Replace the “Federal Communications Commission Radio Frequency Interference Statement” ( Operating Instructions “Read Me First”) with the following.

### 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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment must be installed and operated in accordance with provided instructions and minimum 1.5 cm spacing must be provided between antenna and all person’s body (excluding extremities of hands, wrist and feet) during wireless modes of operation.
- This equipment may use multiple installed transmitters, which may be capable of simultaneous transmission.

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  
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Secaucus, NJ 07094  
Tel No: 1-800-LAPTOP-5 (1-800-527-8675)

# About Bluetooth

Bluetooth is a technology which enables wireless communication. With Bluetooth, you can access internet or exchange data with other Bluetooth devices (e.g., computer, mobile phone, access point) without connecting cables.

## Bluetooth Specification





- Bluetooth Specification V1.1 Compliant
- Power class: Class 1

## Bluetooth Services

- LAN Access Profile (Client and Server)
- Dial-up Networking Profile (Client and Server)
- FAX Profile (Client)
- Serial Port Profile (Client and Server)
- Generic Object Exchange Profile
- Object Push Profile (Client and Server)
- File Transfer Profile (Client and Server)
- Synchronization Profile
- Generic Access Profile
- Headset Profile (AG and HS)
- Hardware Cable Replacement Profile (Client)
- Personal Area Network Profile (AP, Group and User)
- Human Interface Device Profile (Host)

## Bluetooth Switch (Bluetooth ON/OFF)

Bluetooth can be switched on or off.

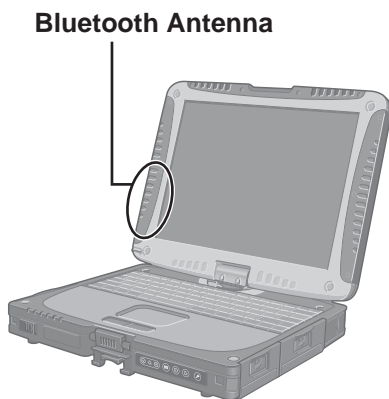
- To switch Bluetooth off  
Select  (blue icon) on the taskbar and select [Disable Bluetooth].  
 turns .
- To switch Bluetooth back on  
Select  (blue icon with red prohibition symbol) and select [Enable Bluetooth].

### CAUTION

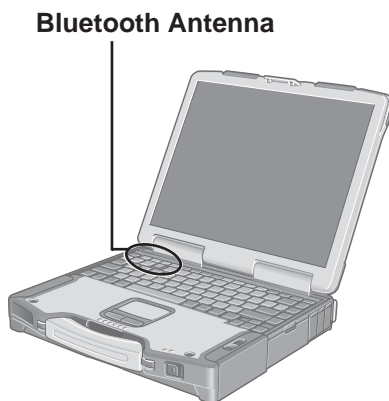
Communications are conducted via a Bluetooth antenna. Do not do anything to block the radio waves, for example by obstructing the antenna segment with your hand.

### NOTE

- Communication speeds and distances may vary depending on surrounding conditions, such as the other device sending or receiving communications and the installation environment.
- It is a characteristic of radio waves that communication speeds will tend to decrease as the communication distance increases. We recommend that communications between Bluetooth devices be conducted in as close proximity as possible.
- Communication speeds may decrease if a microwave oven is being used nearby.



CF-18 Series



CF-29 Series

# Connecting to Bluetooth Devices

## Installing Bluetooth Driver

Perform the following procedure after completing the first-time use operation (☞ Operating Instructions “First-time Operation”).

### NOTE

- When [Found New Hardware Wizard] is displayed, select [Cancel].
- <For MUI (Multilingual User Interface) OS version>  
Install the driver before you change the setting of language. If you have already changed it, set the language to the default values in the following menu. After the installation completes, change the setting of language.  
**Windows 2000**  
[Start] - [Settings] - [Control Panel] - [Regional Options]
  - [Your locale (location)] - [English (United States)]
  - [Menus und dialogs] - [English]**Windows XP**  
[Start] - [Control Panel] - [Date, Time, Language and Regional Options] - [Regional and Language Options]
  - [Regional Options] - [Standards and Formats] - [English (United States)]
  - [Languages] - [Language used in menus and dialogs] - [English]

### Windows 2000

- 1** Connect the CD drive (optional), and install the driver if necessary.
- 2** Place the Bluetooth Software CD-ROM into the CD drive.
- 3** Select [Start] - [Run], enter “d\*:\btw\setup.exe”, and then select [OK].
- 4** At [Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...], select [Next].
- 5** After reading the license agreement, select [I accept the terms in the license agreement], and select [Next].
- 6** At [Destination Folder], select [Next].
- 7** At [Ready to Install the Program], select [Install].
- 8** At [Driver Signature Notice], select [OK].
- 9** At [InstallShield Wizard Completed], select [Finish].
- 10** Select [Yes] to restart the computer.
- 11** Select [Start] - [My Bluetooth Places].
- 12** Select the locations where you want the icon to appear, and select [Next].



**13** Enter the computer name, set [Computer type] to [Laptop], and then select [Next].

**14** Select [Next].

**15** At [Choose the services that this computer will offer:], select [Next].

**16** Select [Skip].

**17** Select [Finish].

**18** Select [Start] - [Run], enter “d\*:\btswitch\setup.exe”, and then select [OK].

**19** At [Welcome to the InstallShield Wizard for Bluetooth Switch...], select [Next].

**20** Select [Yes, I want to restart my computer now], and select [Finish].

The computer will restart.

**21** Remove the CD-ROM and the CD drive.

\* “d” is the drive letter of the CD drive. You can change the letter to suit your preference.

#### Windows XP

**1** Connect the CD drive (optional), and install the driver if necessary.

**2** Place the Bluetooth Software CD-ROM into the CD drive.

**3** Select [Start] - [Run], enter “d\*:\btw\setup.exe”, and then select [OK].

**4** At [Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...], select [Next].

**5** After reading the license agreement, select [I accept the terms in the license agreement], and select [Next].

**6** At [Destination Folder], select [Next].

**7** At [Ready to Install the Program], select [Install].

**8** At [Driver Signature Notice], select [OK].

**9** At [InstallShield Wizard Completed], select [Finish].

**10** Select [Start] - [All Programs] - [My Bluetooth Places].

# Connecting to Bluetooth Devices

- 11** Select the locations where you want the icon to appear and select [Next].
- 12** Enter the computer name, set [Computer type] to [Laptop], and then select [Next].
- 13** Select [Next].
- 14** At [Choose the services that this computer will offer:], select [Next].
- 15** Select [Skip].
- 16** Select [Finish].
- 17** Select [Start] - [Run], enter “d\*:\btswitch\setup.exe”, and then select [OK].
- 18** At [Welcome to the InstallShield Wizard for Bluetooth Switch...], select [Next].
- 19** Select [Yes, I want to restart my computer now], and select [Finish].  
The computer will restart.
- 20** Remove the CD-ROM and the CD drive.

\* “d” is the drive letter of the CD drive. You can change the letter to suit your preference.


## Connecting


### NOTE

Make the required settings to connect to the desired Bluetooth devices beforehand. (e.g., installing a printer driver for the desired printer.)

### <Example>

When connecting to Bluetooth printer using the Serial Port Profile:

- 1** Double-click  on the desktop.
- 2** Select [Bluetooth] from the menu and select [Advanced Configuration] - [Client Applications], then double-click [Bluetooth Serial Port].  
The [Bluetooth Properties] screen\*<sup>1</sup> is displayed.  
Make a note of the Bluetooth serial port number (e.g., COM7)\*<sup>2</sup> displayed in [COM Port]. This is necessary for the setting on page 7.
- 3** Remove the check mark from [Secure Connection], and select [OK].

- 4** Select [OK].
- 5** Right-click  on the taskbar, and select [Quick Connect] - [Bluetooth Serial Port] - [Find Devices].
- 6** Select the desired Bluetooth printer, and select [Connect].
- 7** When [Created connection shortcut...] is displayed, select [OK].
- 8** When [The Bluetooth serial port COM7\*<sup>2</sup> is now configured...] is displayed, select [OK].
- 9**
  - Windows 2000**  
Restart the computer by selecting [Start] - [Shut Down] - [Restart] - [OK].
  - Windows XP**  
Restart the computer by selecting [Start] - [Turn Off Computer] - [Restart].

## Bluetooth Serial Port

When you use the Bluetooth serial port service, you can establish connections between two Bluetooth devices via a virtual communication port. This means that you can handle connected devices in the same way as you would hard-wired connections. To establish a Bluetooth serial port connection, configure the serial port number of the selected device to the Bluetooth serial port number.

### ● Setting

<Example>

Set the serial port number of the desired printer to COM7\*<sup>2</sup>.

#### Windows 2000

- 1** Select [Start] - [Settings] - [Control Panel] - [Printers].
- 2** Right-click the desired printer and select [Properties] - [Ports]. Then select [COM7\*<sup>2</sup>], and select [OK].

#### Windows XP

- 1** Select [Start] - [Control Panel] - [Printers and Other Hardware] - [Printers and Faxes].
- 2** Right-click the desired printer and select [Properties] - [Ports]. Then select [COM7\*<sup>2</sup>], and select [OK].


\*<sup>1</sup> This screen may be displayed behind the [My Bluetooth Places] screen. In this case, minimize the [My Bluetooth Places] screen.

\*<sup>2</sup> This varies depending on the settings.

# Security Setting

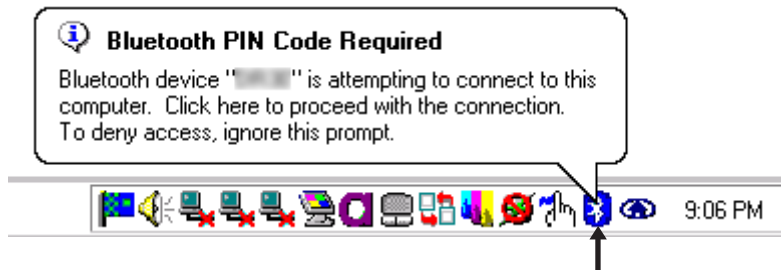
You can establish security settings for individual services.

To enable/disable the security setting:

- 1 Double-click  on the desktop.
- 2 Select [Bluetooth] from the menu, and select [Advanced Configuration] - [Client Applications].
- 3 Double-click the desired application name (service).
- 4 ● To enable:  
Add the check mark for [Secure Connection].  
● To disable:  
Remove the check mark from [Secure Connection].
- 5 Select [OK], then select [OK].

## PIN Code Request

If the security setting is enabled, when you try to connect to other Bluetooth devices, the following message will appear, and you will be asked for the PIN Code.



Click here and enter a PIN Code, then select [OK].

### NOTE

#### PIN Code

A PIN Code is a password for which you can set up to 16 alphanumeric characters. When establishing security settings, the PIN Code for the device to be connected (slave) must be the same as the PIN Code for the device where the connection originates (master).

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# Wichtige Informationen

## In diesem Handbuch verwendete Symbole und Begriffe

<b>HINWEIS:</b>	Ein <b>HINWEIS</b> ist ein Tipp oder eine nützliche Information.
<b>ACHTUNG:</b>	<b>ACHTUNG</b> weist auf eine Gefahr hin, die möglicherweise eine leichte oder mittelschwere körperliche Verletzung verursachen könnte.
<b>Windows 2000</b> :	Informationen für Benutzer von Microsoft® Windows® 2000 Professional.
<b>Windows XP</b> :	Informationen für Benutzer von Microsoft® Windows® XP Professional oder Windows® XP Tablet PC Edition.
[Start] - [Ausführen]:	Bedeutet: Klicken Sie zunächst auf [Start] und dann auf [Ausführen]. (Bei einigen Anwendungen muss doppelgeklickt werden.)
 :	Verweist auf Informationen an anderen Stellen.
●	Beachten Sie bitte, dass die meisten Meldungen bezüglich Bluetooth in englischer Sprache auf dem Bildschirm angezeigt werden.

## Warenzeichen

Bei „Microsoft“ und „Windows“ handelt es sich um eingetragene Warenzeichen von Microsoft Corporation in den Vereinigten Staaten und/oder anderen Ländern.

Das Warenzeichen „Bluetooth“ ist Eigentum von Bluetooth SIG, Inc., U.S.A., und wurde von Matsushita Electric Industrial Co., Ltd., lizenziert.

Panasonic ist ein eingetragenes Warenzeichen von Matsushita Electric Industrial Co., Ltd.

# Informationen über Bluetooth

Bei Bluetooth handelt es sich um eine Technologie, die eine drahtlose Kommunikation ermöglicht. Mit Hilfe von Bluetooth können Sie auf das Internet zugreifen oder Daten mit anderen Bluetooth-Geräten (z.B. PC, Handy, Zugriffspunkt) austauschen, ohne dass irgendwelche Kabelanschlüsse erforderlich sind.

## Bluetooth-Spezifikationen





- Kompatibel mit Bluetooth-Spezifikationen V1.1
- Leistungsklasse: Klasse 1

## Bluetooth-Dienste

- LAN-Zugriffsprofil (Client und Server)
- Wählvernetzungs-Profil (Client und Server)
- FAX-Profil (Client)
- Serielles Anschlussprofil (Client und Server)
- Generic Object Exchange-Profil
- Object Push-Profil (Client und Server)
- Dateiübertragungs-Profil (Client und Server)
- Synchronisierungsprofil
- Allgemeines Zugriffsprofil
- Kopfsprechgarnitur-Profil (AG und HS)
- Hardware-Kabelaustausch-Profil (Client)
- Personal Area Network-Profil (AP, Gruppe und Benutzer)
- Human Interface Device-Profil (Host)

## Bluetooth-Schalter (Bluetooth Ein/Aus)

Bluetooth kann ein- und ausgeschaltet werden.

- Ausschalten von Bluetooth  
Klicken Sie auf  (blaues Symbol) in der Taskleiste, und wählen Sie [Disable Bluetooth] aus.  
Das Symbol  wechselt auf .
- Erneutes Einschalten von Bluetooth  
Klicken Sie auf  (blaues Symbol mit überlappendem roten Verbotssymbol), und wählen Sie [Enable Bluetooth] aus.

## ACHTUNG

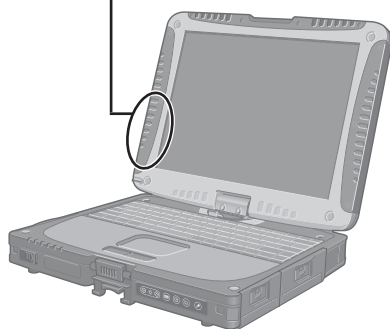
Die Kommunikation erfolgt über eine Bluetooth-Antenne. Vermeiden Sie eine Blockierung der HF-Wellen, z.B. durch Verdecken des Antennensegments mit der Hand.

## HINWEIS

- Kommunikationsgeschwindigkeit und -entfernung können je nach Umgebungsbedingungen variieren, z.B. in Abhängigkeit von dem zweiten Gerät, das Daten überträgt oder empfängt, und von der Installationsumgebung.
- Es ist eine Eigenschaft von HF-Wellen, dass sich die Kommunikationsgeschwindigkeit bei zunehmender Entfernung verringert. Daher empfiehlt es sich grundsätzlich, die Entfernung zwischen zwei Bluetooth-Geräten während der Kommunikation so klein wie möglich zu halten.
- Bei Betrieb eines Mikrowellenherds in der Nähe kann die Kommunikationsgeschwindigkeit abnehmen.

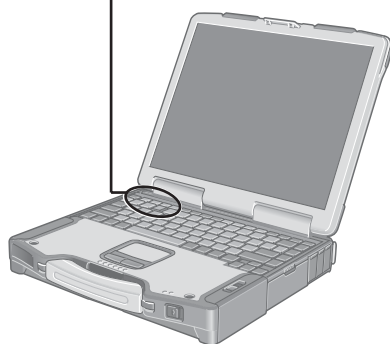
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Bluetooth-Antenne



CF-18 Serie

Bluetooth-Antenne



CF-29 Serie



# Anschließen an Bluetooth-Geräte

## Installieren des Bluetooth-Treibers

Führen Sie das nachstehende Verfahren aus, nachdem Sie das Verfahren für die erstmalige Inbetriebnahme abgeschlossen haben (☞ Betriebsanleitung "Inbetriebnahme").

### HINWEIS

- Wenn der [Assistent für das Suchen neuer Hardware (Found New Hardware Wizard)] auf dem Bildschirm erscheint, klicken Sie auf [Abbrechen (Cancel)].
- <Für die BS-Version MUI (Mehrsprachen-Benutzerschnittstelle)> Installieren Sie den Treiber, bevor Sie die Spracheinstellung ändern. Falls Sie sie bereits geändert haben, stellen Sie die Sprache im folgenden Menü auf den Vorgabewert ein.

Ändern Sie die Spracheinstellung nach der Installation.

#### Windows 2000

[Start] - [Einstellungen] - [Systemsteuerung] - [Ländereinstellungen]

- [Gebietsschema (Standort)] - [Englisch (USA)]
- [Menüs und Dialoge] - [English]

#### Windows XP

[Start] - [Systemsteuerung] - [Datums-, Zeit-, Sprach- und Regionaleinstellungen] - [Regions- und Sprachoptionen]

- [Regionale Einstellungen] - [Standards und Formate] - [Englisch (USA)]
- [Sprachen] - [Sprache für Menüs und Dialogfelder] - [English]

#### Windows 2000

- 1** Schließen Sie das CD-ROM-Laufwerk (separat erhältlich) an, und installieren Sie ggf. den Treiber.
- 2** Legen Sie die CD-ROM mit der Bluetooth-Software in das CD-ROM-Laufwerk ein.
- 3** Wählen Sie [Start] - [Ausführen (Run)] aus, geben Sie „d\*:\\btw\\setup.exe“ ein, und klicken Sie dann auf [OK].
- 4** Wenn die Meldung [Willkommen beim InstallShield Wizard für WIDCOMM Bluetooth Software... (Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...)] erscheint, klicken Sie auf [Weiter].
- 5** Nachdem Sie die Lizenzvereinbarung durchgelesen haben, markieren Sie [Ich akzeptiere die Bedingungen der Lizenzvereinbarung (I accept the terms in the license agreement)], und klicken Sie dann auf [Weiter (Next)].
- 6** Im Fenster [Zielordner (Destination Folder)] klicken Sie auf [Weiter (Next)].
- 7** Im Fenster [Bereit das Programm zu installieren (Ready to Install the Program)] klicken Sie auf [Installieren (Install)].
- 8** Im Fenster [Driver Signature Notice] klicken Sie auf [OK].

# Anschließen an Bluetooth-Geräte

- 9** Im Fenster [InstallShieldWizard abgeschlossen (InstallShield Wizard Completed)] klicken Sie auf [Fertig stellen (Finish)].
- 10** Klicken Sie auf [Ja (Yes)], um einen System-Neustart auszuführen.
- 11** Wählen Sie [Start] - [My Bluetooth Places] aus.
- 12** Wählen Sie Adressen aus, an denen das Symbol erscheinen soll, und klicken Sie dann auf [Weiter (Next)].
- 13** Geben Sie den Computernamen ein, stellen Sie [Computer type] auf [Laptop] ein, und klicken Sie dann auf [Weiter (Next)].
- 14** Klicken Sie auf [Weiter (Next)].
- 15** Im Fenster [Choose the services that this computer will offer] klicken Sie auf [Weiter (Next)].
- 16** Klicken Sie auf [Skip].
- 17** Klicken Sie auf [Fertig stellen (Finish)].
- 18** Wählen Sie [Start] - [Ausführen (Run)] aus, geben Sie „d\*:\\btswitch\\setup.exe“ ein, und klicken Sie dann auf [OK].
- 19** Im Fenster [Welcome to the InstallShield Wizard for Bluetooth Switch] klicken Sie auf [Next].
- 20** Markieren Sie [Yes, I want to restart my computer now], und klicken Sie dann auf [Finish].  
Daraufhin wird ein System-Neustart ausgeführt.
- 21** Entfernen Sie die CD-ROM aus dem CD-ROM-Laufwerk.

\* Bei „d“ handelt es sich um die Laufwerksbezeichnung des CD-ROM-Laufwerks. Bei Bedarf können Sie diesen Buchstaben Ihrer Systemkonfiguration entsprechend ändern.

## Windows XP

- 1** Schließen Sie das CD-ROM-Laufwerk (separat erhältlich) an, und installieren Sie ggf. den Treiber.
- 2** Legen Sie die CD-ROM mit der Bluetooth-Software in das CD-ROM-Laufwerk ein.
- 3** Wählen Sie [Start] - [Ausführen (Run)] aus, geben Sie „d\*:\\btw\\setup.exe“ ein, und klicken Sie dann auf [OK].
- 4** Wenn die Meldung [Willkommen beim InstallShield Wizard für WIDCOMM Bluetooth Software... (Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...)] erscheint, klicken Sie auf [Weiter (Next)].

- 5** Nachdem Sie die Lizenzvereinbarung durchgelesen haben, markieren Sie [Ich akzeptiere die Bedingungen der Lizenzvereinbarung (I accept the terms in the license agreement)], und klicken Sie dann auf [Weiter (Next)].
- 6** Im Fenster [Zielordner (Destination Folder)] klicken Sie auf [Weiter (Next)].
- 7** Im Fenster [Bereit das Programm zu installieren (Ready to Install the Program)] klicken Sie auf [Installieren (Install)].
- 8** Im Fenster [Driver Signature Notice] klicken Sie auf [OK].
- 9** Im Fenster [InstallShield Wizard abgeschlossen (InstallShield Wizard Completed)] klicken Sie auf [Fertig stellen (Finish)].
- 10** Wählen Sie [Start] - [Alle Programme (All Programs)] - [My Bluetooth Places] aus.
- 11** Wählen Sie Adressen aus, an denen das Symbol erscheinen soll, und klicken Sie dann auf [Weiter (Next)].
- 12** Geben Sie den Computernamen ein, stellen Sie [Computer type] auf [Laptop] ein, und klicken Sie dann auf [Weiter (Next)].
- 13** Klicken Sie auf [Weiter (Next)].
- 14** Im Fenster [Choose the services that this computer will offer:], klicken Sie auf [Weiter (Next)].
- 15** Klicken Sie auf [Skip].
- 16** Klicken Sie auf [Fertig stellen (Finish)].
- 17** Wählen Sie [Start] - [Ausführen (Run)] aus, geben Sie „d\*:\btswitch\setup.exe“ ein, und klicken Sie dann auf [OK].
- 18** Im Fenster [Welcome to the InstallShield Wizard for Bluetooth Switch] klicken Sie auf [Next].
- 19** Markieren Sie [Yes, I want to restart my computer now], und klicken Sie dann auf [Finish].  
Daraufhin wird ein System-Neustart ausgeführt.
- 20** Entfernen Sie die CD-ROM aus dem CD-ROM-Laufwerk.

\* Bei „d“ handelt es sich um die Laufwerksbezeichnung des CD-ROM-Laufwerks. Bei Bedarf können Sie diesen Buchstaben Ihrer Systemkonfiguration entsprechend ändern.

# Anschließen an Bluetooth-Geräte



## Anschließen

### HINWEIS

Stellen Sie die für den Anschluss an die gewünschten Bluetooth-Geräte erforderlichen Einstellungen im Voraus her (z.B. das Installieren eines Druckertreibers für den gewünschten Drucker).

### <Beispiel>

Anschließen an einen Bluetooth-Drucker über das serielle Anschlussprofil:

- 1** Doppelklicken Sie im Desktop auf das Symbol  **My Bluetooth Places**.
- 2** Wählen Sie [Bluetooth] im Menü aus, wählen Sie dann [Advanced Configuration] - [Client Applications] aus, und doppelklicken Sie anschließend auf [Bluetooth Serial Port].  
Das [Bluetooth Properties]-Fenster\*<sup>1</sup> erscheint.  
Notieren Sie sich die Nummer des seriellen Bluetooth-Anschlusses (z.B. COM7)\*<sup>2</sup>, die unter [COM Port] angezeigt wird. Diese Nummer wird für die auf Seite 17 beschriebene Einstellung benötigt.
- 3** Deaktivieren Sie das Kontrollkästchen [Secure Connection], und klicken Sie dann auf [OK].
- 4** Klicken Sie auf [OK].
- 5** Klicken Sie mit der rechten Maustaste auf das Symbol  in der Taskleiste, und wählen Sie dann [Quick Connect] - [Bluetooth Serial Port] - [Find Devices] aus.
- 6** Wählen Sie den gewünschten Bluetooth-Drucker aus, und klicken Sie dann auf [Connect].
- 7** Wenn die Meldung [Created connection shortcut...] erscheint, klicken Sie auf [OK].
- 8** Wenn die Meldung [The Bluetooth serial port COM7\*<sup>2</sup> is now configured...] erscheint, klicken Sie auf [OK].
- 9** **Windows 2000**  
Führen Sie einen System-Neustart aus, indem Sie [Start] - [Beenden] - [Neu starten] auswählen und dann auf [OK] klicken.  
**Windows XP**  
Führen Sie einen System-Neustart aus, indem Sie [Start] - [Ausschalten] - [Neu starten] auswählen.

## Serieller Bluetooth-Anschluss

Wenn Sie vom seriellen Bluetooth-Anschlussdienst Gebrauch machen, können Sie eine Verbindung zwischen zwei Bluetooth-Geräten über einen virtuellen Kommunikationsanschluss herstellen. Die auf diese Weise verbundenen Geräte lassen sich auf gleiche Weise bedienen wie bei einem Kabelanschluss.

Um eine serielle Bluetooth-Anschlussverbindung herzustellen, konfigurieren Sie die serielle Anschlussnummer des gewählten Gerätes auf die serielle Bluetooth-Anschlussnummer.

### ● Einstellverfahren

<Beispiel>

Einstellung der seriellen Anschlussnummer des gewünschten Druckers auf COM7\*<sup>2</sup>.

#### Windows 2000

- 1 Wählen Sie [Start] - [Einstellungen] - [Systemsteuerung] - [Drucker] aus.
- 2 Klicken Sie mit der rechten Maustaste auf den gewünschten Drucker, und wählen Sie [Eigenschaften] - [Anschlüsse] aus. Wählen Sie [COM7\*<sup>2</sup>] aus, und klicken Sie dann auf [OK].

#### Windows XP

- 1 Wählen Sie [Start] - [Systemsteuerung] - [Drucker und andere Hardware] - [Drucker und Faxgeräte] aus.
- 2 Klicken Sie mit der rechten Maustaste auf den gewünschten Drucker, und wählen Sie [Eigenschaften] - [Anschlüsse] aus. Wählen Sie [COM7\*<sup>2</sup>] aus, und klicken Sie dann auf [OK].


\*<sup>1</sup> Dieses Fenster wird u.U. durch das Fenster [My Bluetooth Places] verdeckt. In einem solchen Fall minimieren Sie das Fenster [My Bluetooth Places].

\*<sup>2</sup> Die Nummer richtet sich nach den jeweiligen Einstellungen.

# Sicherheitseinstellung

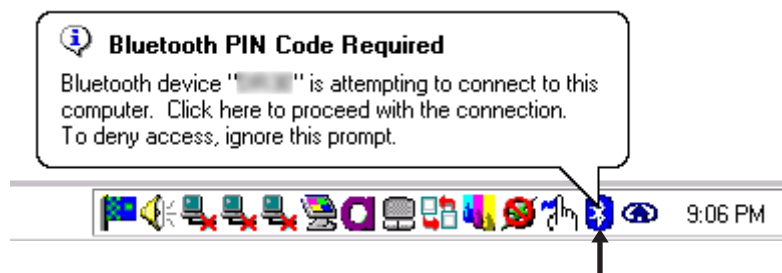
Die Sicherheitseinstellungen können für die verschiedenen Dienste separat vorgenommen werden.

**Zum Freigeben/Sperren der Sicherheitseinstellung:**

- 1** Doppelklicken Sie im Desktop auf das Symbol  **My Bluetooth Places**
- 2** Wählen Sie [Bluetooth] im Menü aus, wählen Sie dann [Advanced Configuration] - [Client Applications] aus.
- 3** Doppelklicken Sie auf den Namen der gewünschten Anwendung (Dienst).
- 4** ● Zum Freigeben:  
Aktivieren Sie das Kontrollkästchen [Secure Connection].  
● Zum Sperren:  
Deaktivieren Sie das Kontrollkästchen [Secure Connection].
- 5** Klicken Sie auf [OK], und dann erneut auf [OK].

## PIN-Codeanforderung

Wenn Sie bei freigegebener Sicherheitseinstellung versuchen, eine Verbindung zu anderen Bluetooth-Geräten aufzubauen, erscheint die folgende Meldung mit einer Aufforderung zur Eingabe des PIN-Codes.



Klicken Sie hier, geben Sie einen PIN-Code ein, und klicken Sie dann auf [OK].

### HINWEIS

#### PIN-Code

Beim PIN-Code handelt es sich um ein Passwort, für das Sie bis zu 16 alphanumerische Zeichen eingeben können. Bei der Herstellung der Sicherheitseinstellungen muss dem anzuschließenden Gerät (Slave) der gleiche PIN-Code wie dem Gerät (Master) zugewiesen werden, von dem der Anschluss eingeleitet wird.

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# Lecture préliminaire

## Des illustrations et une terminologie sont proposées dans ce Manuel

<b>REMARQUE:</b>	Un encadré intitulé <b>REMARQUE</b> vous donne des informations utiles.
<b>ATTENTION:</b>	Un encadré intitulé <b>ATTENTION</b> vous indique une situation qui risquerait de provoquer des blessures corporelles mineures ou modérées.
<b>Windows 2000 :</b>	Informations destinées aux utilisateurs de Microsoft® Windows® 2000 Professional.
<b>Windows XP :</b>	Informations destinées aux utilisateurs de Microsoft® Windows® XP Professional ou de Windows® XP Tablet PC Edition.
[Démarrer] - [Exécuter]:	Ce symbole signifie que vous devez cliquer sur [Démarrer] puis sur [Exécuter]. (Pour certaines applications, vous aurez peut-être besoin de cliquer deux fois.)
 :	Où aller pour trouver l'information mentionnée.
●	Notez que la plupart des messages à l'écran qui concernent Bluetooth s'affichent en anglais.

## Marques commerciales

Microsoft et Windows sont des marques déposées de Microsoft Corporation des États-Unis et/ou d'autres pays.

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# À propos de Bluetooth

Bluetooth est une technologie qui permet la communication sans fil. Avec Bluetooth, vous pouvez accéder à Internet ou échanger des données avec d'autres appareils Bluetooth (par exemple, un ordinateur, un téléphone portable, un point d'accès) sans raccorder de câbles.

## Spécifications Bluetooth





- Conforme aux spécifications Bluetooth V1.1
- Classe de puissance : Classe 1

## Services Bluetooth

- Profil Accès réseau local (Client et Serveur)
- Profil Interconnexion pour accès réseau à distance (Client et Serveur)
- Profil FAX (Client)
- Profil Port série (Client et Serveur)
- Profil Échange d'objets génériques
- Profil Pousser objet (Client et Serveur)
- Profil Transfert de fichiers (Client et Serveur)
- Profil Synchronisation
- Profil Accès générique
- Profil Casque (AG et HS)
- Profil Remplacement de câble de matériel (Client)
- Profil Réseau personnel (AP, Groupe et Utilisateur)
- Profil Périphérique d'interface humaine (Hôte)

## Commutateur Bluetooth (Bluetooth MARCHE/ARRÊT)

Il est possible d'activer ou de désactiver Bluetooth.

- Pour désactiver Bluetooth  
Sélectionnez  (icône bleue) sur la barre des tâches puis sélectionnez [Disable Bluetooth].  
 devient .
- Pour réactiver Bluetooth  
Sélectionnez  (icône bleue avec symbole d'interdiction) puis sélectionnez [Enable Bluetooth].

## ATTENTION

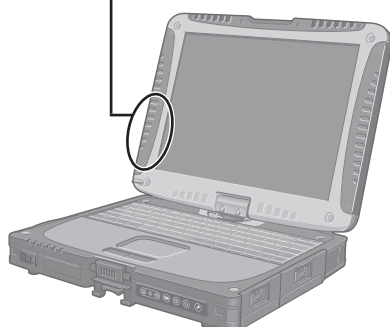
Les communications s'effectuent par une antenne Bluetooth.

Évitez de bloquer de quelque façon que ce soit les ondes radio, par exemple en plaçant la main près de l'antenne.

## REMARQUE

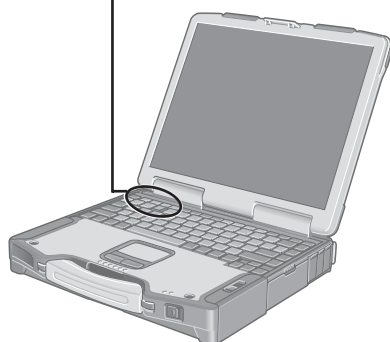
- La vitesse de communication et la distance couverte peuvent varier suivant les conditions environnantes, telles que les spécifications de l'autre appareil qui émet/reçoit les signaux de communication ou que l'environnement d'installation.
- La tendance à la diminution de la vitesse de communication à mesure que la distance de communication augmente est une caractéristique des ondes radio. Il est recommandé que la communication entre les appareils Bluetooth s'effectue sur la distance la plus courte possible.
- La vitesse de communication risque de diminuer si un four à micro-ondes est utilisé à proximité.

Antenne Bluetooth



CF-18 Series

Antenne Bluetooth



CF-29 Series

# Raccordement à des appareils Bluetooth

## Installation du pilote Bluetooth

Procédez comme suit après avoir complété l'opération de la première utilisation (☞ Instructions d'utilisation "Première utilisation").

### REMARQUE

- Si [Found New Hardware Wizard] s'affiche, sélectionnez [Cancel].
- Installez le pilote avant de changer le réglage de langue. Si vous l'avez déjà changé, rétablissez les valeurs par défaut pour la langue dans le menu suivant.

Après l'installation, changez le réglage de langue.

#### Windows 2000

[Démarrer] - [Paramètres] - [Panneau de configuration] - [Options régionales]

- [Vos paramètres régionaux (emplacement)] - [Anglais (États-Unis)]
- [Menus et boîtes de dialogue] - [English]

#### Windows XP

[Démarrer] - [Panneau de configuration] - [Options régionales, date, heure et langue] - [Options régionales et linguistiques]

- [Options régionales] - [Standards et formats] - [Anglais (États-Unis)]
- [Langues] - [Langue utilisée dans les menus et boîtes de dialogue] - [English]

#### Windows 2000

- 1** Raccordez le lecteur CD (en option) et installez le pilote si nécessaire.
- 2** Insérez le CD-ROM du logiciel Bluetooth dans le lecteur CD.
- 3** Sélectionnez [Start] - [Run], saisissez "d\*:\btw\setup.exe", puis sélectionnez [OK].
- 4** Sous [Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...], sélectionnez [Next].
- 5** Après avoir lu le contrat de licence, sélectionnez [I accept the terms in the license agreement], puis sélectionnez [Next].
- 6** Sous [Destination Folder], sélectionnez [Next].
- 7** Sous [Ready to Install the Program], sélectionnez [Install].
- 8** Sous [Driver Signature Notice], sélectionnez [OK].
- 9** Sous [InstallShield Wizard Completed], sélectionnez [Finish].
- 10** Sélectionnez [Yes] pour redémarrer l'ordinateur.
- 11** Sélectionnez [Start] - [My Bluetooth Places].
- 12** Sélectionnez les emplacements où vous désirez que l'icône apparaisse, puis sélectionnez [Next].

# Raccordement à des appareils Bluetooth

- 13** Saisissez le nom de l'ordinateur, réglez [Computer type] sur [Laptop], puis sélectionnez [Next].
- 14** Sélectionnez [Next].
- 15** Sous [Choose the services that this computer will offer:], sélectionnez [Next].
- 16** Sélectionnez [Skip].
- 17** Sélectionnez [Finish].
- 18** Sélectionnez [Start] - [Run], saisissez "d\*:\btswitch\setup.exe", puis sélectionnez [OK].
- 19** Sous [Welcome to the InstallShield Wizard for Bluetooth Switch...], sélectionnez [Next].
- 20** Sélectionnez [Yes, I want to restart my computer now], puis sélectionnez [Finish].  
L'ordinateur redémarre.
- 21** Retirez le CD-ROM et le lecteur CD.

\* "d" est la lettre assignée au lecteur CD. Vous pouvez changer cette lettre suivant vos préférences.

## Windows XP

- 1** Raccordez le lecteur CD (en option) et installez le pilote si nécessaire.
- 2** Insérez le CD-ROM du logiciel Bluetooth dans le lecteur CD.
- 3** Sélectionnez [Start] - [Run], saisissez "d\*:\btw\setup.exe", puis sélectionnez [OK].
- 4** Sous [Welcome to the InstallShield Wizard for WIDCOMM Bluetooth Software...], sélectionnez [Next].
- 5** Après avoir lu le contrat de licence, sélectionnez [I accept the terms in the license agreement], puis sélectionnez [Next].
- 6** Sous [Destination Folder], sélectionnez [Next].
- 7** Sous [Ready to Install the Program], sélectionnez [Install].
- 8** Sous [Driver Signature Notice], sélectionnez [OK].
- 9** Sous [InstallShield Wizard Completed], sélectionnez [Finish].

- 10** Sélectionnez [Start] - [All Programs] - [My Bluetooth Places].
- 11** Sélectionnez les emplacements où vous désirez que l'icône apparaisse, puis sélectionnez [Next].
- 12** Saisissez le nom de l'ordinateur, réglez [Computer type] sur [Laptop], puis sélectionnez [Next].
- 13** Sélectionnez [Next].
- 14** Sous [Choose the services that this computer will offer:], sélectionnez [Next].
- 15** Sélectionnez [Skip].
- 16** Sélectionnez [Finish].
- 17** Sélectionnez [Start] - [Run], saisissez "d\*:\btswitch\setup.exe", puis sélectionnez [OK].
- 18** Sous [Welcome to the InstallShield Wizard for Bluetooth Switch...], sélectionnez [Next].
- 19** Sélectionnez [Yes, I want to restart my computer now], puis sélectionnez [Finish].  
L'ordinateur redémarre.
- 20** Retirez le CD-ROM et le lecteur CD.

\* "d" est la lettre assignée au lecteur CD. Vous pouvez changer cette lettre suivant vos préférences.


## Raccordement

### REMARQUE

Effectuez à l'avance les réglages nécessaires pour établir la connexion aux appareils Bluetooth désirés. (Par exemple, l'installation d'un pilote d'imprimante pour l'imprimante désirée.)

### <Exemple>


Lors du raccordement à une imprimante Bluetooth en utilisant Serial Port Profile (profil Port série).

- 1** Double-cliquez sur  sur le bureau.
- 2** Sélectionnez [Bluetooth] dans le menu, sélectionnez [Advanced Configuration] - [Client Applications], puis double-cliquez sur [Bluetooth Serial Port].

L'écran\*<sup>1</sup> [Bluetooth Properties] s'affiche.

Prenez en note le numéro du port série Bluetooth (ex.: COM7)\*<sup>2</sup> qui s'affiche dans [COM Port]. Vous en aurez besoin pour le réglage à la page 26.

# Raccordement à des appareils Bluetooth

- 3** Retirez la coche de [Secure Connection], puis sélectionnez [OK].
- 4** Sélectionnez [OK].
- 5** Cliquez avec le bouton droit de la souris sur  sur la barre des tâches, puis sélectionnez [Quick Connect] - [Bluetooth Serial Port] - [Find Devices].
- 6** Sélectionnez l'imprimante Bluetooth désirée, puis sélectionnez [Connect].
- 7** Lorsque [Created connection shortcut...] s'affiche, sélectionnez [OK].
- 8** Lorsque [The Bluetooth serial port COM7\*2 is now configured...] s'affiche, sélectionnez [OK].
- 9** **Windows 2000**  
Redémarrez l'ordinateur en sélectionnant [Démarrer] - [Arrêter] - [Redémarrer] - [OK].  
**Windows XP**  
Redémarrez l'ordinateur en sélectionnant [Démarrer] - [Arrêter l'ordinateur] - [Redémarrer].

## Port série Bluetooth

Si vous utilisez le service de port série Bluetooth, vous pouvez établir des connexions entre deux appareils Bluetooth via un port de communication virtuel. Cela signifie que vous pouvez utiliser les appareils connectés de la même façon que s'ils étaient raccordés par câble.

Pour établir la connexion du port série Bluetooth, configurez le numéro du port série de l'appareil sélectionné sur le numéro du port série Bluetooth.

### ● Réglage

<Exemple>

Réglez le numéro de port série de l'imprimante désirée sur COM7\*2.

#### Windows 2000

- 1** Sélectionnez [Démarrer] - [Paramètres] - [Panneau de configuration] - [Printers].
- 2** Cliquez avec le bouton droit de la souris sur l'imprimante désirée, puis sélectionnez [Propriétés] - [Ports]. Sélectionnez ensuite [COM7\*2], puis sélectionnez [OK].

#### Windows XP

- 1** Sélectionnez [Démarrer] - [Panneau de configuration] - [Imprimantes et autres périphériques] - [Imprimantes et télécopieurs].
- 2** Cliquez avec le bouton droit de la souris sur l'imprimante désirée, puis sélectionnez [Propriétés] - [Ports]. Sélectionnez ensuite [COM7\*2], puis sélectionnez [OK].


\*1 Il se peut que cet écran s'affiche derrière l'écran [My Bluetooth Places]. Le cas échéant, réduisez la taille de l'écran [My Bluetooth Places].

\*2 Varie suivant les réglages.

# Réglage de sécurité

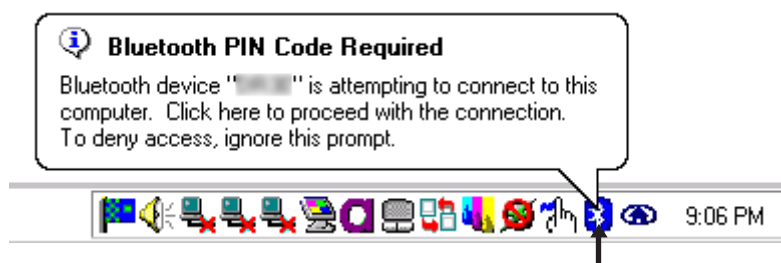
Vous pouvez établir des réglages de sécurité pour les services respectifs.

Pour activer/désactiver le réglage de sécurité :

- 1 Double-cliquez sur  sur le bureau.
- 2 Sélectionnez [Bluetooth] dans le menu, puis sélectionnez [Advanced Configuration] - [Client Applications].
- 3 Double-cliquez sur le nom de l'application désirée (service).
- 4 ● Pour activer :  
Cochez [Secure Connection].  
● Pour désactiver :  
Retirez la coche de [Secure Connection].
- 5 Sélectionnez [OK], puis [OK].

## Demande de PIN code

Si le réglage de sécurité est activé, le message suivant apparaît lorsque vous essayez de vous connecter à un autre appareil Bluetooth, et le PIN code vous est demandé.



Cliquez ici et saisissez un PIN code, puis sélectionnez [OK].

### REMARQUE

#### PIN code

Un PIN code est un mot de passe qui peut comprendre jusqu'à 16 caractères alphanumériques.

Lors de l'établissement des réglages de sécurité, le PIN code de l'appareil à connecter (asservi) doit être le même que celui de l'appareil d'où s'établit la connexion (maître).

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# Memo

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