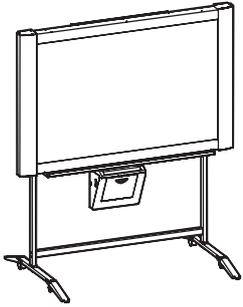


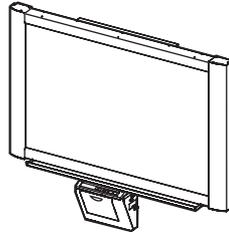
Panasonic®

Electronic Board

Operating Instructions



[Stand (option)]

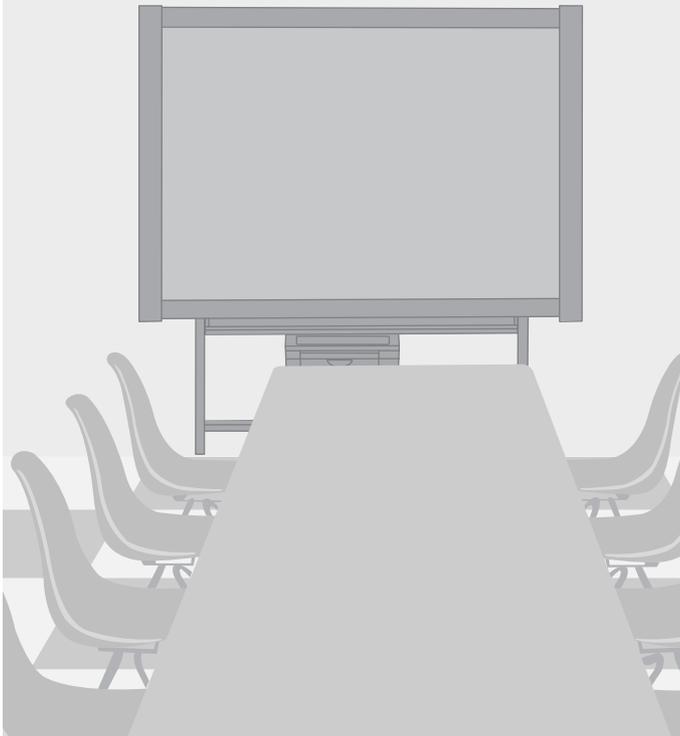


[Wall-mounting (option)]

The unit in this picture is UB-5325.
(Stand and Wall-mounting kit are optional.)

Model No. **UB-5325**
UB-5825

Panaboard



English	1–28
Français	29–56
Deutsch	57–84
Español	85–112
Italiano	113–140
Nederlands	141–168
Svenska	169–196
中文	197–224
Русский	225–252

- To assemble this unit, please refer to the Installation Manual.
- Before operating this unit, please read these instructions completely and keep them carefully for future reference.
- Because of the nature of the print film, all the printed text will remain on the film.

English

Français

Deutsch

Español

Italiano

Nederlands

Svenska

中文

Русский

Thank you for purchasing the Panasonic Electronic Board.
For optimum performance and safety, please read these instructions carefully.

Record these items for future reference

Model number: _____	Date of purchase: _____
Serial number: _____	Dealer's name: _____
Dealer's address: _____	Tel: _____

Accessories

	Q'ty		Q'ty
• Thermal transfer film	1	• Power cord	1
• Markers (red, black, and blue)	1 each	• A4 (Letter*) size copy paper	20
• Operating Instructions	1	• Software CD-ROM	1
• Installation Manual	1		
• Eraser	1		

- * Letter size is for U.S.A. and Canada models.
- The stand and wall-mounting kit are optional. By way of example, this manual describes an Electronic Board which is used with the stand.
- USB cable is not included.

- Microsoft, Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- IBM and AT are trademarks of International Business Machines Corporation in the United States, other countries, or both.
- Pentium is a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.
- Adobe, Acrobat, Acrobat Reader and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.
- All trademarks referred to in this manual are property of their respective companies.
- This software is based in part of the work of the IndependentJPEG Group.
- This software is based on the "libtiff" which has the following copyrights:
 Copyright (C) 1988-1997 Sam Leffler
 Copyright (C) 1991-1997 Silicon Graphics, Inc.

The information given in this Operating Instructions is subject to change without notice.

Warning about saving data

When the system storage device or any of its optional storage device is adversely effected by operational errors, static electricity, electrical noise, vibration, dust or when the power has been cut off due to malfunction, repair or inadvertently, the memory contents may be lost or changed. Before operating the system, make a point of reading the precautionary notes in the Operating Instructions and the help information, and observe them during operation.

Please observe carefully the following precaution:

- Make absolutely sure that all important data is saved by back-up or the original is saved.

The manufacturer hereby declares that it cannot be held accountable for any loss or change in any data stored on floppy disks, hard disks, optical disks, or other memory devices.

Table of Contents

Before You Start

	Page
For Your Safety	4
Precautions	5
• CD-ROM	6
Part Names and Functions	8
• Control panel	9

Using

Installing the Thermal Transfer Film	10
Loading Copy Paper	11
Making Copies	13
• Copy types and procedures	13
Replacing the Thermal Transfer Film	14
Paper Jams	15
Computer Interfacing	17
• System requirements	17
• Contents of CD-ROM	17
• Installing Drivers / Board Image Capture	18
• Installing Quick Image Navigator / Panasonic-DMS	19
• Removing Drivers / Board Image Capture / Quick Image Navigator	19
• Removing Panasonic-DMS	20
• Scanning with the Board Image Capture	20
• Scanning with the Quick Image Navigator / Panasonic-DMS	21
• Panaboard Operation Panel	22
• Printing	23

Help

Daily Care and Maintenance	24
• Cleaning the screen and the unit	24
• Caring for the eraser	24
• Cleaning the printer head, platen roller and pick-up roller	24
Troubleshooting	26
• Meanings of error codes	27
Specifications	28
• Option and Separately available	28

For Your Safety

For Your Safety

English

CAUTION:
TO PREVENT RISK OF ELECTRIC SHOCK HAZARD, DO NOT REMOVE THE COVER OF THIS PRODUCT, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

THE SOCKET-OUTLET MUST BE NEAR THIS EQUIPMENT AND MUST BE EASILY ACCESSIBLE.

The product should be used only with the power cord that is supplied by the manufacturer.

Stop operation immediately if your product emits smoke, excessive heat, abnormal smell or unusual noise. These conditions can cause fire or electric shock. Immediately turn the product off and unplug the power cord, and contact your dealer for service.

- (220–240 V equipment)
A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord is not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 1.0 mm²).

CLASS 1 LED PRODUCT

Für Benutzer in der BRD

Hinweis:
Maschinenlärminformations-Verordnung - 3. GPSGV, der höchste Schalldruckpegel beträgt ≤ 70 dB (A) oder weniger gemäss EN ISO 7779.

Das Gerät ist nicht für die Benutzung am Bildschirmarbeitsplatz gemäß BildscharbV vorgesehen.

For users in the United Kingdom only

Safety Information
This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5 amp. fuse is fitted in this plug. Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps. and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark  or the BSI mark  on the body of the fuse. If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local Panasonic Dealer.

If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp. socket. If a new plug is to be fitted please observe the wiring code as shown below. If in any doubt please consult a qualified electrician.

WARNING: This appliance must be earthed.
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code.

Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wire in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

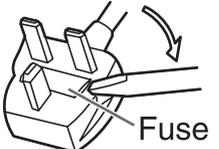
The wire which is coloured Green-and-Yellow must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol  or coloured Green or Green-and-Yellow.

The wire which is coloured Blue must be connected to the terminal in the plug which is marked with the letter N or coloured Black.

The wire which is coloured Brown must be connected to the terminal in the plug which is marked with the letter L or coloured Red.

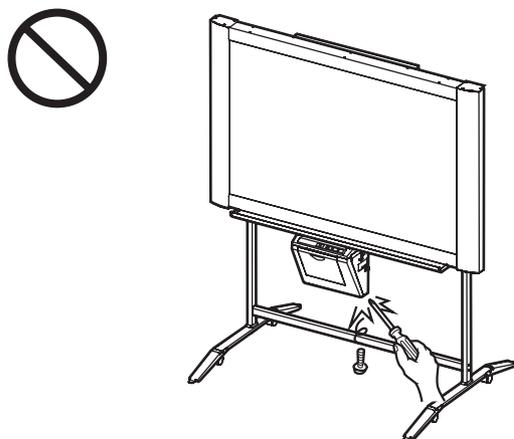
How to replace the fuse:

Open the fuse compartment with a screwdriver and replace the fuse.

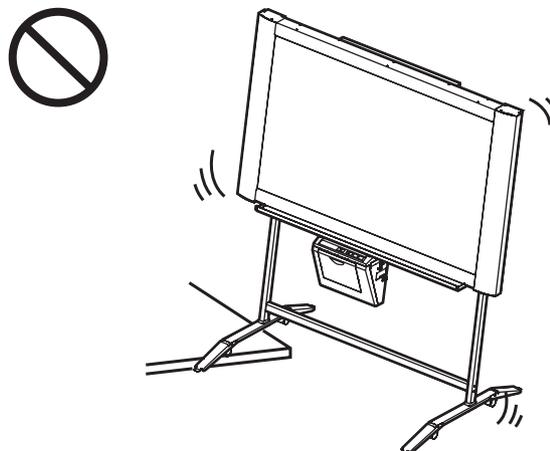


Precautions

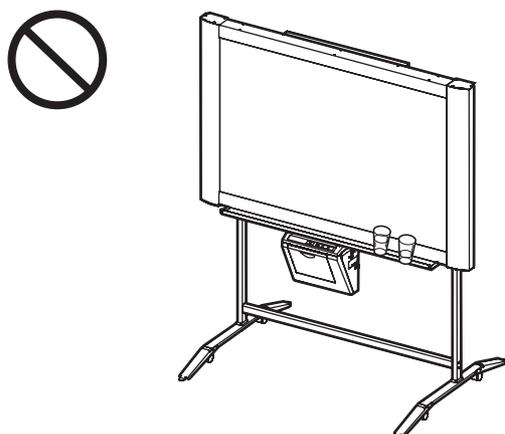
Never remove the cover, take apart or modify the product. This will void the warranty.



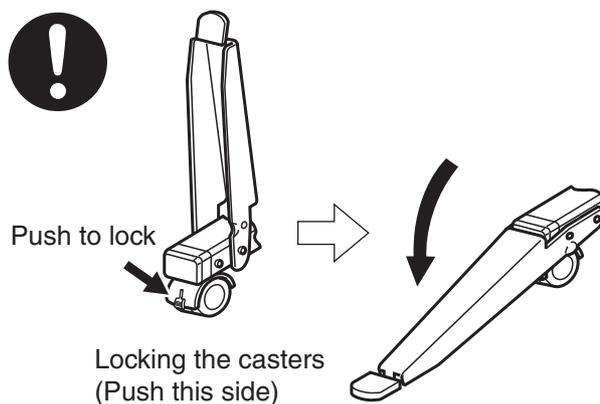
Do not position the electronic board in a location where it is unstable.



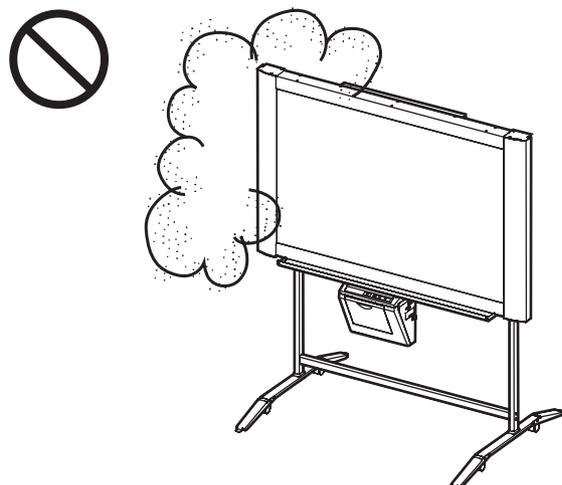
Do not put drinks, other liquids or heavy items on the tray or screen.



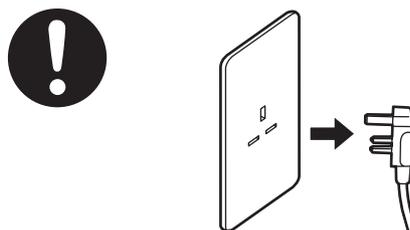
After installing or moving the electronic board, lock the casters and set the fall-prevention extension legs.



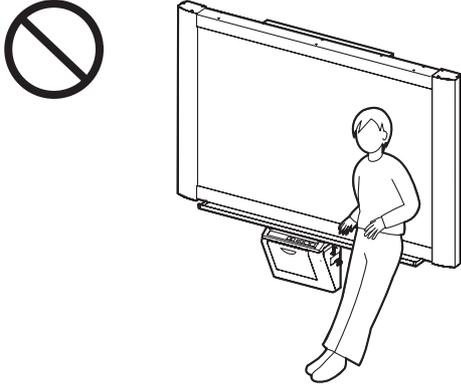
Do not use the electronic board in an excessively humid or dusty location.



If the electronic board is not going to be used for an extended period of time (e.g., during extended holidays), turn off the power and remove the plug from the wall outlet.

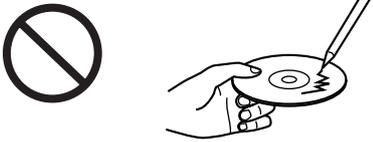
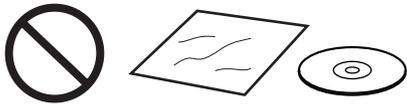
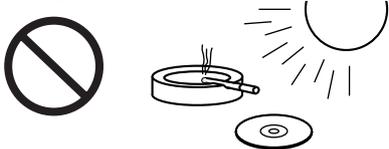
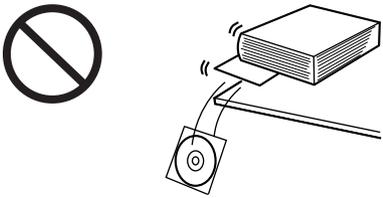
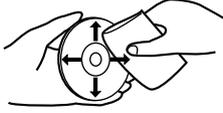


Precautions

<p>Do not lean against the screen or on the cover (lower), even if the electronic board is mounted on the wall.</p> 	<p>Have the unit installed, removed and disposed of only by qualified service personnel.</p> 
<p>CHOKING HAZARD Keep the marker's cap out of reach of children to prevent swallowing.</p> 	<p>When the unit will no longer be used, in order to prevent it from falling, do not leave the unit installed, but remove it. If the unit falls, it can cause injury</p> 

CD-ROM

To prevent the CD-ROMs from accidental damages:

<p>Do not touch or write on the surface of the disc.</p> 	<p>Do not leave the disc out of the protective case.</p> 	<p>Do not leave the disc in direct sunlight or near heat sources.</p> 
<p>Do not place heavy objects on the disc case or drop the case.</p> 	<p>To clean the disc, hold the disc by its edges and wipe it from the center to the edges with a dry, soft cloth.</p> 	

Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

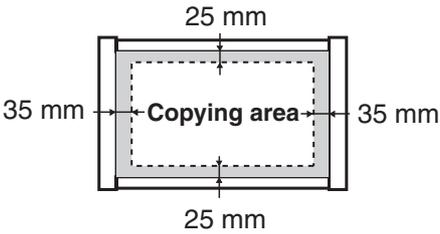
For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

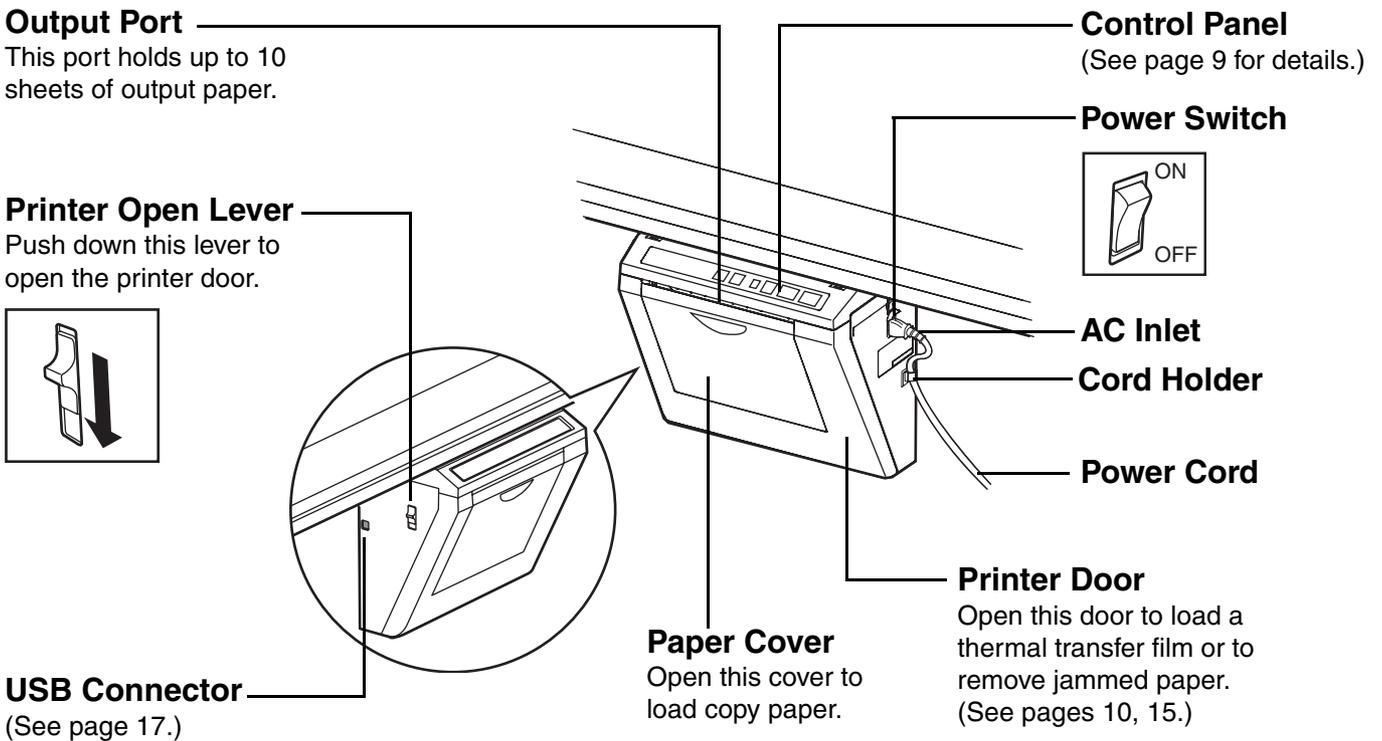
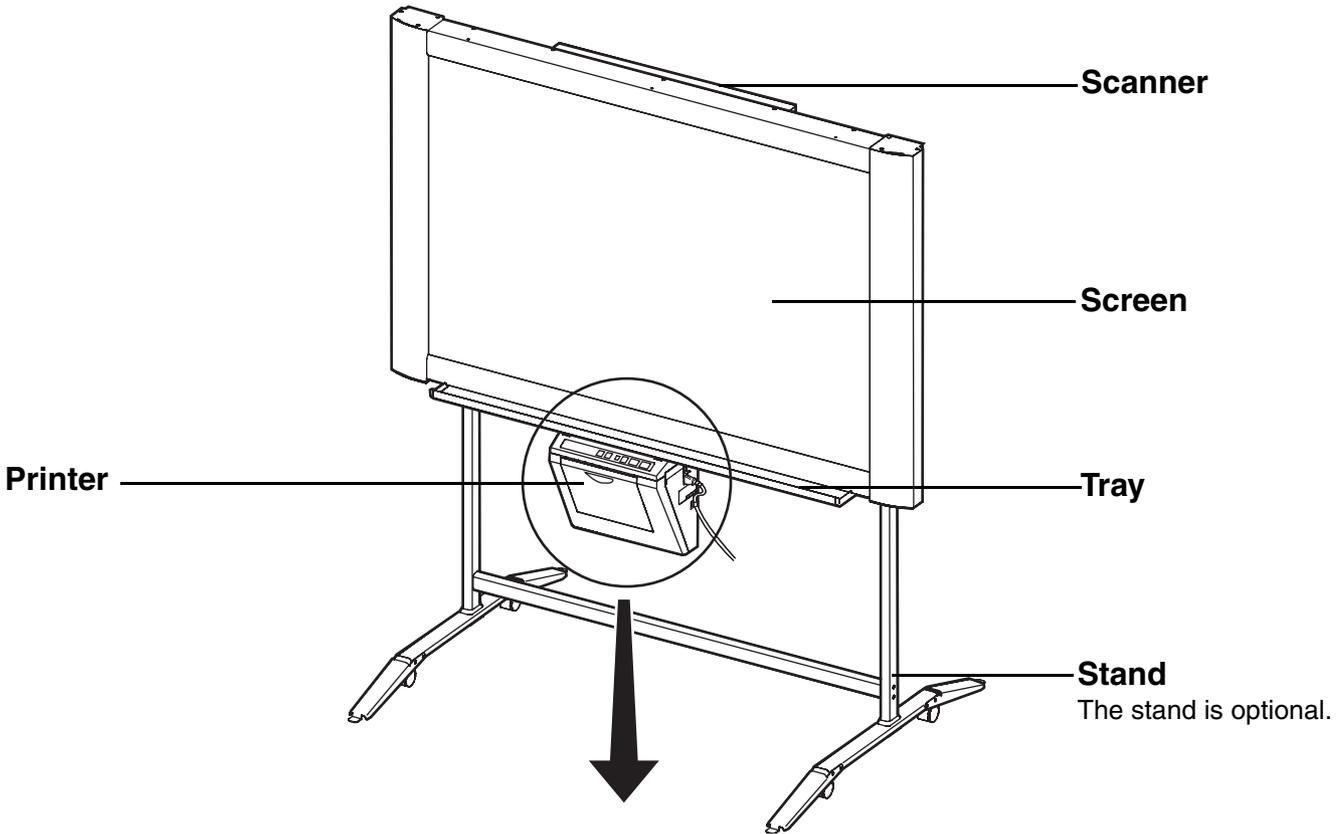
This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

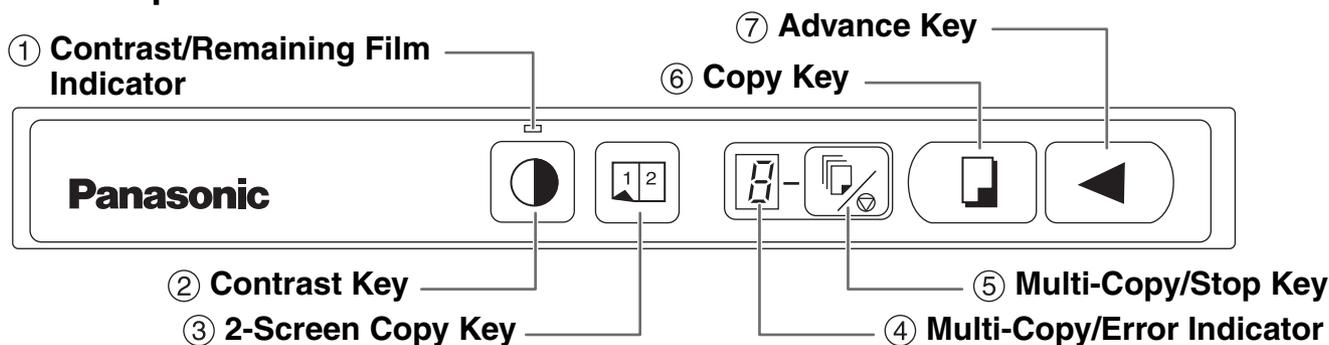
Installation	<ul style="list-style-type: none"> Do not install the unit where it may be exposed to direct sunlight, near heating equipment, or near air-conditioning vents as this may cause stretching and/or discoloration of the screen. Do not install the unit in strong sunlight or strong lighting. Proper copying may become impossible. Do not install the unit in locations where the temperature may change suddenly as this may disable the unit's ability to make copies.
Screen Film	<ul style="list-style-type: none"> Make thick and dark lines inside the copying area. Note that any writing inside the shaded area (on right) cannot be copied. Do not allow writing to remain on the screen for an extended period of time as it will become harder to erase. Do not touch the screen, write with markers, or erase while the screen is moving as this may result in damage to the unit. Do not erase with an overly dirty eraser (see page 24). Do not attach chart paper to the screen film for copying as this may result in damage to the unit. 
Markers, Erasers and Thermal Transfer Film	<ul style="list-style-type: none"> Use only the included or designated markers, erasers and thermal transfer film. (See page 28.) Use of accessories other than those included or designated (such as oil-based markers) may damage the screen or result in hard-to-erase markings. Do not store the thermal transfer film in a location subject to extreme changes in temperature (such as near air conditioning or heating equipment) as this may cause condensation on the thermal transfer film and result in poor print quality and/or paper jams. The length of one roll of designated thermal transfer film (Replacement film: UG-6001) is approximately 50 meters. One roll of thermal transfer film can make approximately 150 sheets of copies. Note that the total number of copies may differ depending on the operating conditions. Also note that the length of the thermal transfer film supplied with the unit is shorter than the replacement film roll and is only approximately 10 meters. Store markers horizontally as vertical storage may stop the ink from coming out.
Power Cord	<ul style="list-style-type: none"> The included power cord is for use with this unit only. Do not use it with other devices. When moving the unit, disconnect the power cord from the electrical power socket and from the printer's power connector and coil it for transportation as stepping on the power cord or having it catch on something during movement may result in damage to the cord.
Replacing the Thermal Transfer Film	<ul style="list-style-type: none"> Dispose of the used thermal transfer film in a trash receptacle for burnable trash. A negative of the copied image will remain on the thermal transfer film. (To protect the security of your information, we recommend cutting up the used thermal transfer film with scissors or shredder before disposing of it.)
USB Cable	<ul style="list-style-type: none"> Use a shielded USB cable that is certified as logo by USB-IF. If you connect the electronic board to a USB hub, it is not guaranteed to work. Do not connect two or more Panasonic electronic boards to a computer. It may cause the computer operation to become unstable.

Part Names and Functions

Part Names and Functions



■ Control panel



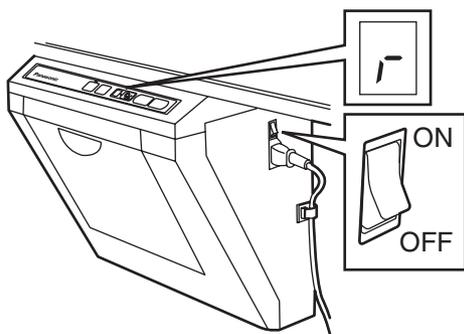
Panel	Name	Description
	① Contrast/Remaining Film Indicator	This lamp indicator notifies the user when the time to replace the thermal transfer film is approaching (estimated) and of the printing contrast used during copying. Indicator off: Normal printing contrast Indicator on: Darker than normal printing contrast Indicator flashing*: Almost time to replace the thermal transfer film (Note that only about 15 more sheets may be copied when this indicator starts flashing.) Replacement film (UG-6001) is separately available from the dealer where you purchased your unit. * The flashing indicator will go out after the power is turned off, or the printer has been opened and closed. (When copying is performed, this indicator will begin flashing again.)
	② Contrast Key	Each time this key is pressed, the unit will alternate between normal and dark contrast modes (Normal/Dark).
	③ 2-Screen Copy Key	This key causes the front and back of the screen to be copied on a single sheet of paper.
	④ Multi-Copy/Error Indicator	This indicator displays the number of copies to be made. The display changes each time the Multi-Copy/Stop Key is pressed. Example: 1 → 2 → ... → 9 → 1 → ... When an error occurred, a flashing symbol will appear in this display to indicate the error status. (See page 27.)
	⑤ Multi-Copy/Stop Key	When making multiple copies, press this key until the desired number of copies is displayed on the Multi-Copy/Error Indicator. This key can also be pressed to stop copying while executing multiple copies. • The display changes as shown below each time the screen is copied. After reaching 0, the display will reset to 1. Example: 5 → 4 → 3 → 2 → 1 → 0 → 1 (Number is counted down.)
	⑥ Copy Key	This key causes the screen to be copied.
	⑦ Advance Key	Pressing this key advances the screen from right to left.

Installing the Thermal Transfer Film

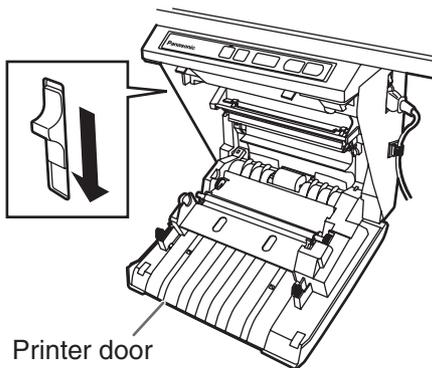
Installing the Thermal Transfer Film

Install the thermal transfer film in the printer.

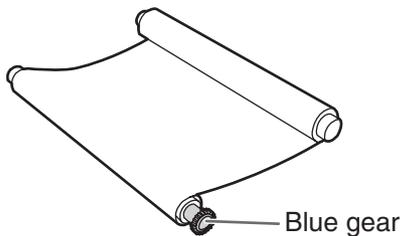
- 1 Set the power switch to on (I).
 - “ r ” will flash on the Multi-Copy/Error Indicator when the thermal transfer film has run out.
 - The screen will move to home position and stop.



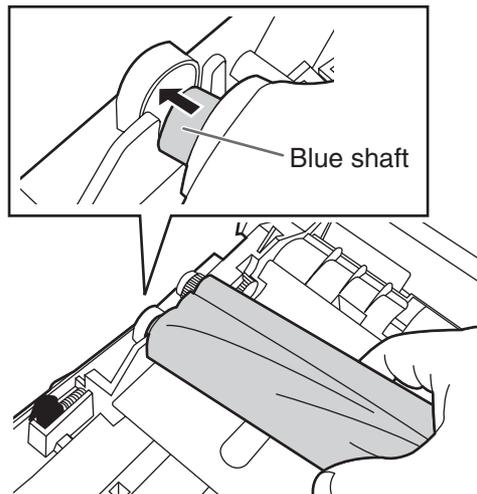
- 2 Push down the printer open lever and open the printer door.



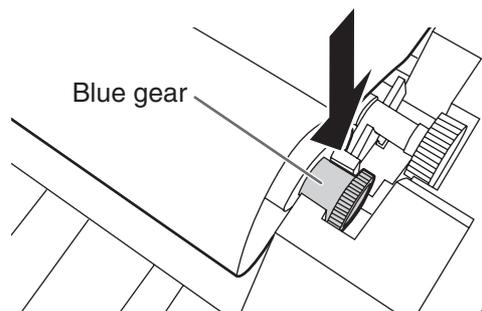
- 3 Install the thermal transfer film.
 - 1) Set the thermal transfer film, with the blue gear in front, on the right.



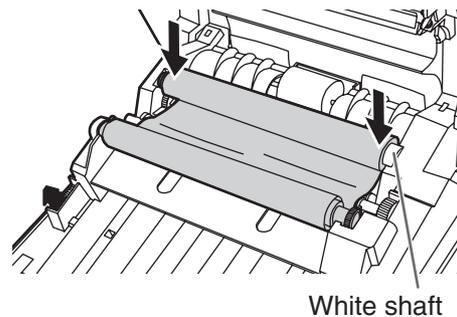
- 2) Insert the blue shaft into the front left hole.



- 3) Place the blue gear on the front right groove.

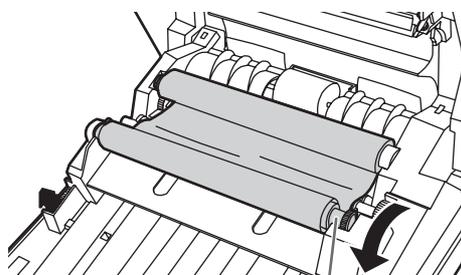


- 4) Place the white shaft on both sides of the back grooves.



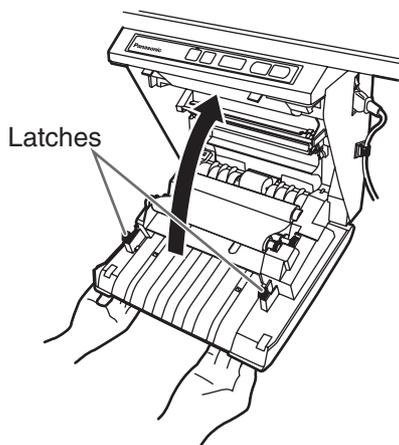
4 Tighten the film, then close the printer door.

- 1) Rotate the blue gear in the direction of the arrow to take up the slack on the film.



Blue gear

- If a slack remains, perform step 3-2) through 4-1) again.
- 2) Securely close the printer door by using both hands until a click is heard.
- “P” flashing on the Multi-Copy/Error Indicator will go out.



Note

- If “P” is still flashing after closing the printer door, make sure that the thermal transfer film has been installed properly and tightened.
- The printer door should be closed to make copies properly. Confirm both latches are locked.

Loading Copy Paper

It is possible to load up to 40 sheets of A4 (Letter*) size copy paper [assuming a paper weight of 80 g/m²]. Note that only A4 (Letter*) size paper may be used. When the unit is first used or when “P” flashes on the Multi-Copy/Error Indicator to indicate that the unit is out of paper, load copy paper as described below.

* Letter size is for U.S.A. and Canada models.

Notes on Loading Copy Paper

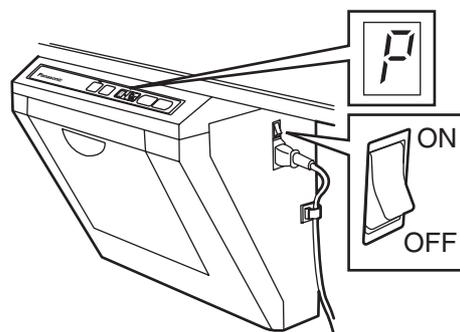
Follow the guidelines below to ensure smooth and accurate printing by the unit.

- Only use A4 (Letter) size copy paper having a weight of 60 g/m² to 90 g/m² as the copy paper for this unit.
- Do not simultaneously load paper of varying type and thickness as this may result in paper jams.
- Before adding copy paper, be sure to remove all the copy paper remaining inside the unit's paper cover. (Note that copy paper will slightly resist being removed, but may be pulled out without problems.) After removing the copy paper, stack the removed paper together with the new paper, fan it thoroughly, square it and reload.

DO NOT USE THE FOLLOWING TYPES OF PAPER

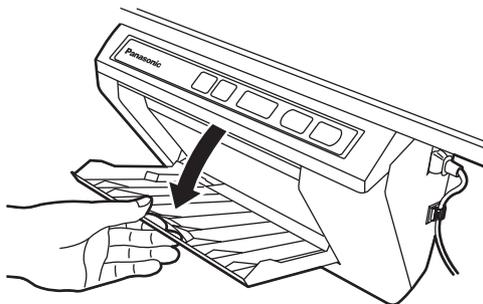
- Extremely smooth or glossy paper
- Coated paper
- Thermal paper
- Paper that is printed on one side
- Wrinkled paper, creased paper, etc.

- 1 Set the power switch to on (I).
 - “P” will flash on the Multi-Copy/Error Indicator when copy paper has run out.
 - The screen will move to home position and stop.

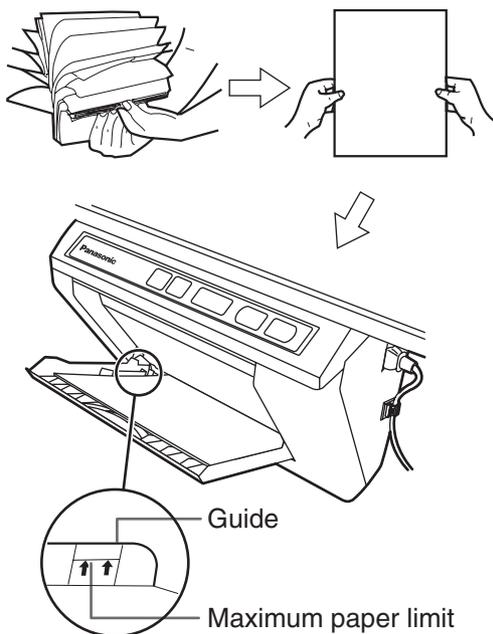


Loading Copy Paper

- 2** Pull the paper cover forward as shown in the figure.



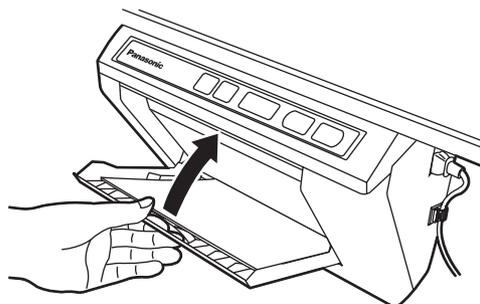
- 3** To prevent paper jams such as those caused by multiple sheets feeding at once, fan the paper thoroughly, square it, align it with the guide inside, and insert as far as it will go.



Note

- Only use A4 (Letter*) size copying paper having a weight of 60 g/m² to 90 g/m² as the copy paper for this unit.
* Letter size is for U.S.A. and Canada models.
- Do not stack more copy paper in the unit than the maximum paper limit indicated by the guide (see the above figure) as this may result in paper jams. [Note that the unit can hold about 40 sheets of paper having a weight of 80 g/m².]

- 4** Close the paper cover until a click is heard.



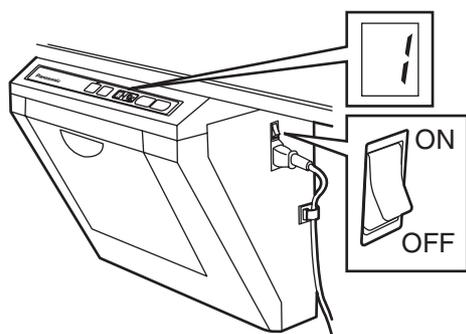
Note

- Close the paper cover, or the unit will not work properly.
- The paper cover should be closed to make copies properly. Confirm the both latches are locked.

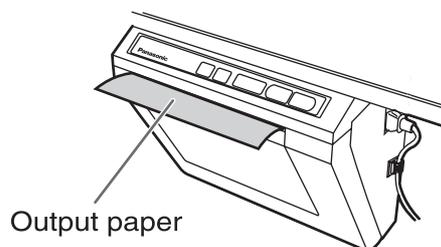
Making Copies

This section describes how to copy text and illustrations drawn on the screen.

- 1 Set the power switch to on (I).
 - “ I ” will light on the Multi-Copy/Error Indicator to indicate that the unit is ready to copy.
 - The screen will move to home position and stop.



- 2 Press the Copy Key  .
 - Text and illustrations on the screen will be copied and copies emerge from the output port.
 - The output port can hold up to 10 sheets of copy paper. (Note that exceeding the output port's capacity may result in paper jams.)
 - For details on making multiple copies, 2-screen copies and so on, see “**Copy types and procedures**” on this page.



Note

- Do not use paper that has been copied on one side by this printer as copy paper in this unit or in any other copiers or printers as this may result in dirty rollers, degradation of printing quality, paper jams, and streaks and smudges on output paper.
- Do not write on the back side of the output paper from this unit. The printed ink may be transferred underneath the paper.
- Text or images in shades of yellow will not copy.

■ Copy types and procedures

[A] Copying the front of the screen

- 1) Press  .

[B] Copying the back of the screen

- 1) Press  to move the screen to be copied to the front.
- 2) Press  .

[C] Making multiple copies (up to 9)

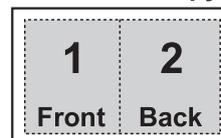
- 1) Select the number of copies (1 to 9) by pressing  as necessary.
 - 2) Press  .
- Press  to stop copying in mid-operation.

[D] Making 2-screen copies

Copying the front and back of the screen on a single sheet of paper

- 1) Press  .

2-Screen Copy



Replacing the Thermal Transfer Film

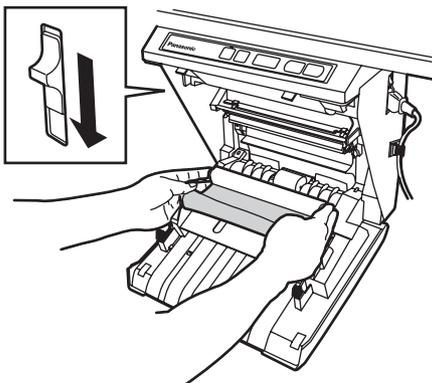
Replacing the Thermal Transfer Film

The unit is capable of producing about 15 more copies when the Contrast/Remaining Film Indicator begins to flash. The unit has run out of thermal transfer film and can no longer make copies when the Multi-Copy/Error Indicator flashes “ r ”. Separately available replacement film (UG-6001) may be purchased from the dealer where you purchased the unit. Thermal transfer film is replaced as follows.

Notes on Replacing Thermal Transfer Film

- Only use the designated product (UG-6001) from Panasonic as the replacement film. (Note that using another type of replacement film may result in degraded printing quality or damage to the unit.)
- Thermal transfer film is disposable. Dispose of used thermal transfer film as “burnable” or “non-recyclable” rubbish.
- A negative of the copied image will remain on the thermal transfer film. To protect the security of your information, we recommend cutting up the used thermal transfer film with scissors or shredder before disposing of it.

- 1** Push down the printer open lever to open the printer door, and remove the used film.



- 2** Refer to steps 3 and 4 in the section of “Installing the Thermal Transfer Film” on page 10.

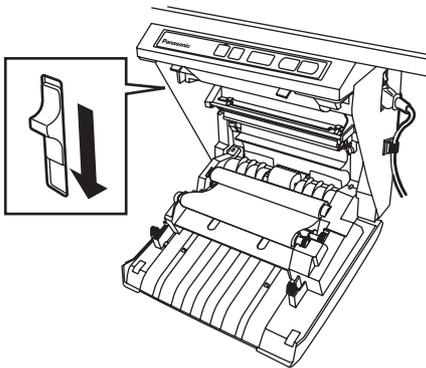
Note

- If “ r ” is still flashing after closing the printer door, make sure that the thermal transfer film has been installed properly and tightened.
- The printer door should be closed to make copies properly. Confirm both latches are locked.

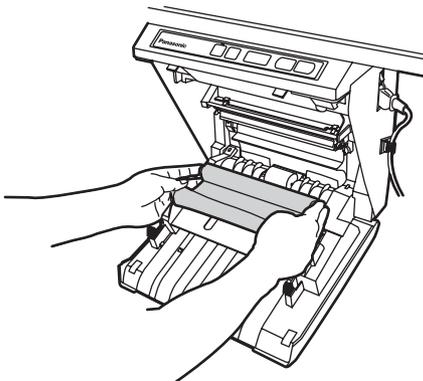
Paper Jams

Remove paper jams by the following procedure when copy paper does not come out of the output port or when “L” flashes on the Multi-Copy/Error Indicator.

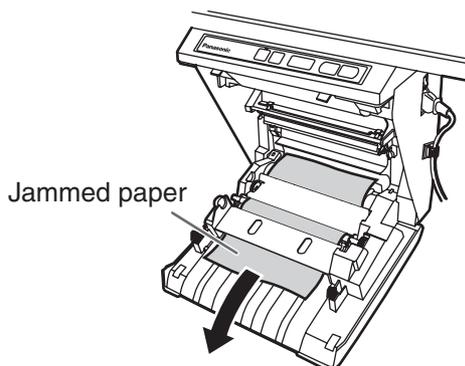
- 1 Push down the printer open lever to open the printer door.



- 2 Remove the thermal transfer film with both hands.



- 3 Remove the jammed paper.



- 4 Install the thermal transfer film.

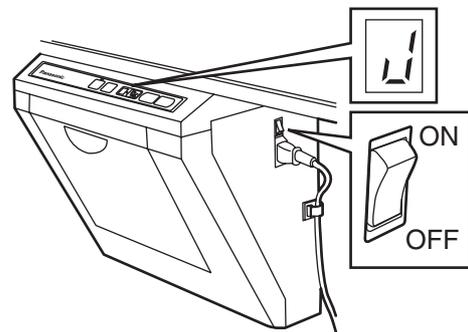
- Refer to steps 3 and 4 in the section of “Installing the Thermal Transfer Film” on page 10.
- “L” flashing on the Multi-Copy/Error Indicator will go out.

Note

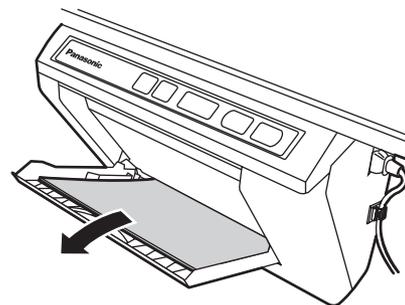
- If “L” is still flashing after closing the printer door, make sure that the thermal transfer film has been installed properly and tightened.
- The printer door should be closed to make copies properly. Confirm both latches are locked.

If the flashing “L” does not go out after the foregoing procedure has been performed; this may indicate that the paper feeder is not functioning properly. Reload the copy paper by following the steps given below.

- 1 Turn the power off.



- 2 Open the paper cover and remove all the copy paper remaining inside the unit's paper cover.

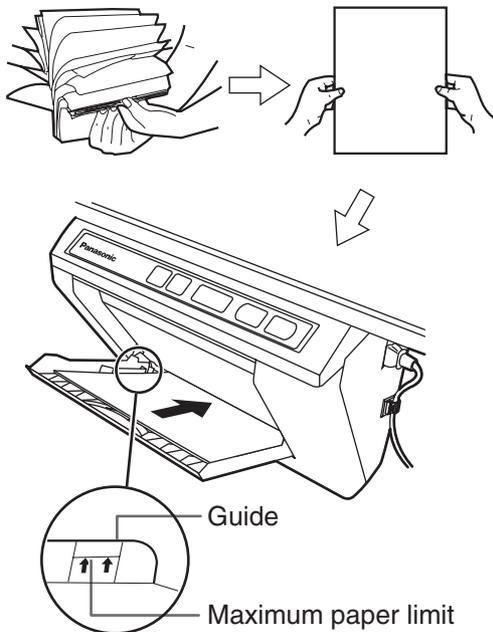


Note

- The copy paper will slightly resist being removed, but may be pulled out without problems.

Paper Jams

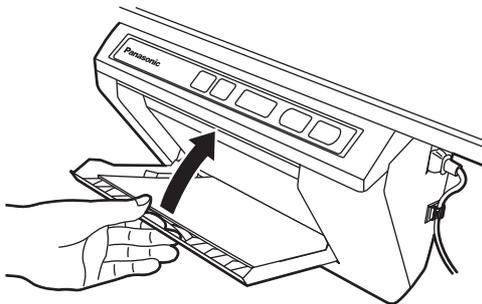
- 3** To prevent paper jams such as those caused by multiple sheets feeding at once, fan the paper thoroughly, square it, align it with the guide inside, and insert as far as it will go.



Note

- Do not stack more copy paper in the unit than the maximum paper limit indicated by the guide (see figure) as this may result in paper jams. [Note that the unit can hold about 40 sheets of paper having a weight of 80 g/m².]

- 4** Close the paper cover until a click is heard.

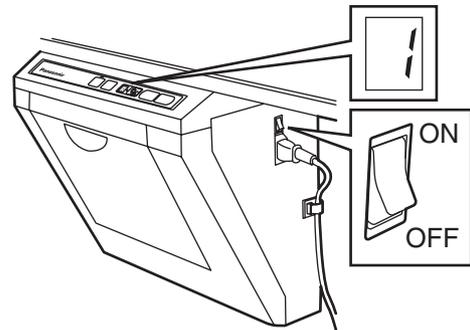


Note

- Close the paper cover, or the unit will not work properly.
- The paper cover should be closed to make copies properly. Confirm the both latches are locked.

- 5** Turn the power on.

- “!” will light on the Multi-Copy/Error Indicator to indicate that the unit is ready to copy.
- The screen will move to home position and stop.



Computer Interfacing

Drivers and software must be installed in your computer to use Board Image Capture, Quick Image Navigator, Panasonic-DMS, printer and TWAIN driver.

■ System requirements

Computer	IBM® PC/AT® or compatible machine with a CD-ROM drive
CPU	Pentium® II or higher processor
Interface	USB 2.0 or USB 1.1* ¹
OS	Windows® 98* ² / Windows Me* ³ / Windows 2000* ⁴ / Windows XP* ⁵ / Windows Vista®* ⁶ (64-bit editions are not supported.)
Memory	128 MB or more (Windows 98 / Windows Me) 256 MB or more (Windows 2000 / Windows XP / Windows Vista)
HD	At least 200 MB free space (except saving space for data files)

*¹ This electronic board does not function with Hi-Speed USB 2.0. Even if using a computer equipped with Hi-Speed USB 2.0, this electronic board functions with Full Speed USB 2.0.

*² Microsoft® Windows® 98 operating system (hereafter Windows 98)

*³ Microsoft® Windows® Millennium Edition operating system (hereafter Windows Me)

*⁴ Microsoft® Windows® 2000 operating system (hereafter Windows 2000)

*⁵ Microsoft® Windows® XP operating system (hereafter Windows XP)

*⁶ Microsoft® Windows Vista® operating system (hereafter Windows Vista)

- The system requirements above do not meet the recommended specifications of all operating systems and of the included software.

■ Contents of CD-ROM

The provided CD-ROM includes the following items.

- USB driver
- Printer driver
- TWAIN driver
- Board Image Capture
Allows you to scan hand-written text and diagrams on the Panaboard and save the scanned image as a PDF file.
- Electronic board operating instructions

Note

- The “menu” window contains links to “Quick Image Navigator”, “Panasonic-DMS” and “Adobe® Reader®”.

Notes when connecting the electronic board to a computer

- First install the USB, printer and TWAIN driver to your computer, then connect the electronic board to the computer (refer to “**Installing Drivers / Board Image Capture**” on page 18).
- If you connect the electronic board to a USB hub, it is not guaranteed to work.
- Do not connect two or more Panasonic electronic boards to a computer. It may cause the computer operation to become unstable.
- Use a shielded USB cable that is certified as logo by USB-IF.

Computer Interfacing

■ Installing Drivers / Board Image Capture

The USB, printer, TWAIN driver and Board Image Capture are installed in your computer by following procedures.

Note

- Do not yet connect a USB cable to the electronic board.

1 Power on your computer and start Windows*¹.

- Log on as an administrator for Windows 2000, Windows XP or Windows Vista.

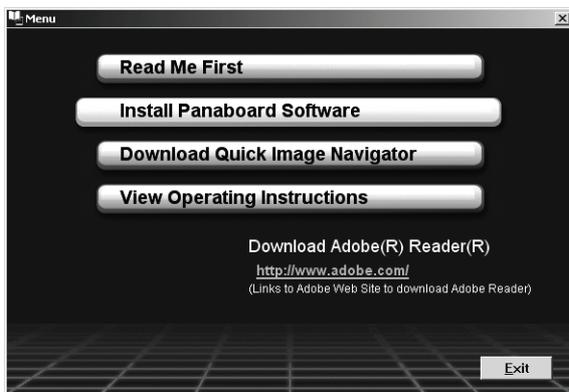
*¹ Microsoft® Windows® operating system (hereafter Windows)

2 Insert the CD-ROM into the CD-ROM drive. The Setup window appears automatically.

- Depending on the operating system or the settings that you are using, the Setup window may not appear automatically. In such a case, execute "Menu.exe" in the CD-ROM from the Explorer.
- If the Autoplay dialog box appears in Windows Vista, click "Run Menu.exe".

3 When "Welcome" window appears, click [Next].

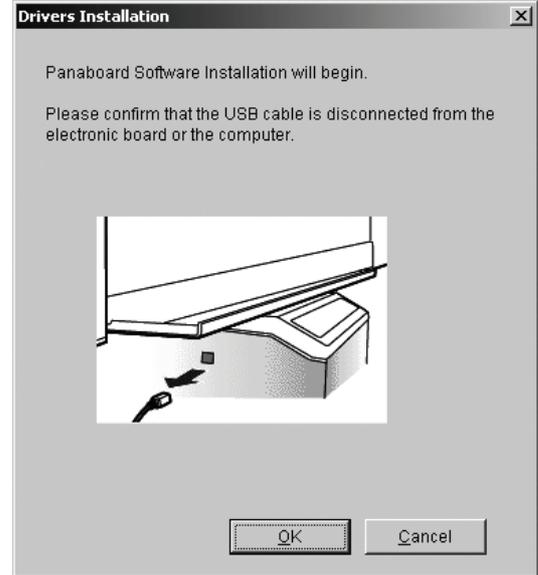
4 Click [Install Panaboard Software].



- If "User Account Control" window is displayed in Windows Vista, select [Continue] to continue the installation.
- To read the operating instructions in the provided CD-ROM, the Adobe Reader or Acrobat® Reader must be installed in your computer. It can be downloaded from the Adobe's Web site if Internet is available.

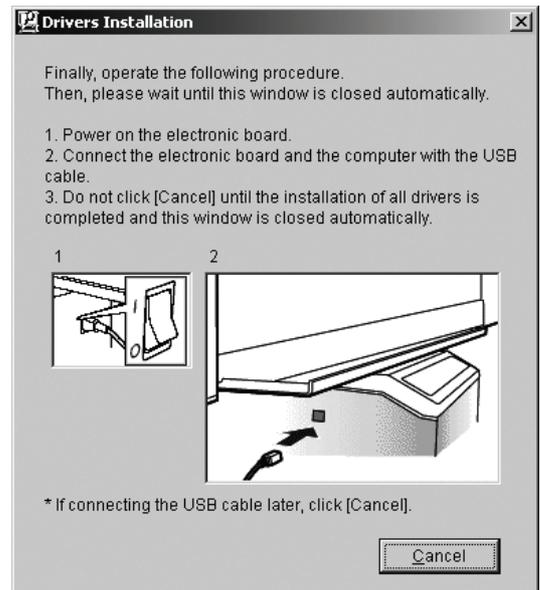
5 Read "End-User License Agreement" carefully and click [Yes].

6 When the following window appears, check that the electronic board is not connected to your computer and click [OK].



- If "Windows can't verify the publisher of this driver software" is displayed in Windows Vista, select "Install this driver software anyway" to continue the installation.
- For Windows 98 or Windows Me, a floppy disk or CD-ROM for installing the operating system may be required.
- If the screen prompts to restart Windows, restart Windows.

7 When the following window appears after files are copied, power the electronic board on, and connect a USB cable from the electronic board to your computer.



- 8** Follow the on-screen instructions if the wizard windows appear.
- If the wizard window is displayed to select the file (##.inf) for the printer driver in Windows XP, select “windows\inf\oem##.inf”.
 - If the wizard window is displayed to connect to the Windows Update in Windows XP SP2, select [No].
 - If the warning dialog is displayed in Windows 2000 / Windows XP, select [Yes] or [Continue Anyway] to continue the installation. In Windows Vista, no warning window is displayed and installation will continue.
 - The new hardware wizard windows may be displayed several times depending on the operating system.
 - For Windows 98 or Windows Me, a floppy disk or CD-ROM for installing the operating system may be required.
- 9** When the installation is completed, click [OK].

Note

- If the Panaboard is powered on and connected to the computer with a USB cable when [Exit] is clicked after the installation is completed, the Board Image Capture software will automatically start in Windows 2000 / Windows XP / Windows Vista. (For further details, refer to “**Scanning with the Board Image Capture**” on page 20.)

■ Installing Quick Image Navigator / Panasonic-DMS

After confirming your operating system, install the software.

For Windows 2000 / Windows XP / Windows Vista:
Quick Image Navigator

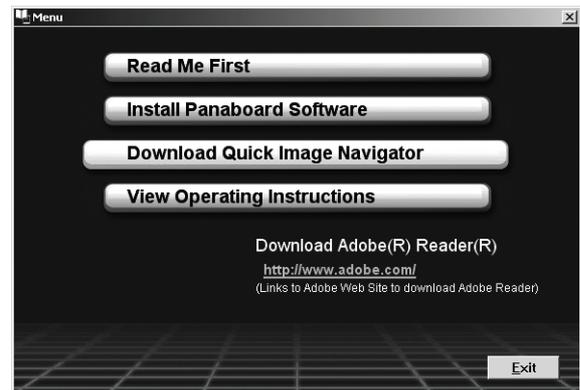
For Windows 98 / Windows Me: Panasonic-DMS
If Panasonic-DMS is already installed, you do not need to uninstall it.

- 1** Power on your computer and start Windows.
- Log on as an administrator for Windows 2000, Windows XP or Windows Vista.
- 2** Insert the CD-ROM into the CD-ROM drive. The Setup window appears automatically.
- Depending on the operating system or the settings that you are using, the Setup

window may not appear automatically. In such a case, double-click “Menu.exe” in the CD-ROM from the Explorer.

- If the Autoplay dialog box appears in Windows Vista, click “Run Menu.exe”.

- 3** When “**Welcome**” window appears, click [Next].
- 4** Click [Download Quick Image Navigator].



- To download Quick Image Navigator and Panasonic-DMS, your computer must be able to access the Internet.

- 5** Download the desired software from the appropriate download web site, then double-click the downloaded installer.
- 6** Follow the on-screen instructions when messages appear.
- 7** When the setup process is completed, restart Windows.
- For information about Quick Image Navigator or Panasonic-DMS, refer to the corresponding operating instructions, which can be downloaded from the web site.
 - To read the Quick Image Navigator operating instructions or the Panasonic-DMS operating instructions, Adobe Reader or Acrobat Reader must be installed on your computer.

■ Removing Drivers / Board Image Capture / Quick Image Navigator

If you need to remove the USB driver, printer driver, TWAIN driver, Board Image Capture and Quick Image Navigator, perform the following steps.

Computer Interfacing

- 1 Power on your computer and start Windows.
 - Log on as an administrator for Windows 2000, Windows XP or Windows Vista.
- 2 In the **Control Panel**, double-click **Add/Remove Programs** (Windows XP: **Add or Remove Programs**, Windows Vista: **Uninstall a program**).
- 3 Select the software you want to remove, then remove it.
 - To remove the USB and TWAIN driver, select **Panaboard UB5-7 Driver**.
To remove Board Image Capture, select **Panasonic Board Image Capture**.
To remove Quick Image Navigator, select **Panasonic Quick Image Navigator**.
- 4 Follows the instructions on the screen.
- 5 After uninstalling, restart your computer.

■ Removing Panasonic-DMS

If you need to remove Panasonic-DMS, perform the following steps.

- 1 Power on your computer and start Windows.
- 2 Click [Start], move the pointer to **Programs–Panasonic–Panasonic Document Management System–Uninstall**.
- 3 Click [OK].
- 4 After uninstalling, restart your computer.

■ Scanning with the Board Image Capture

Board Image Capture allows you to scan handwritten text and diagrams on the Panaboard and save the scanned image as a PDF file.

- 1 Power on the Panaboard.
- 2 Power on your computer and start Windows.
- 3 Connect your computer and Panaboard with the USB cable.

- Board Image Capture automatically starts, then the Panaboard Operation Panel appears.

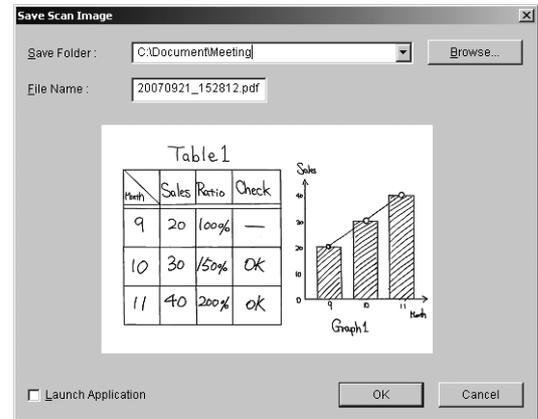


Note

- If the Panaboard Operation Panel does not appear, check the USB cable connection or the status of the unit.

- 4 Click the  (Scan) button or the  (2-Screen Scan) button.

- When scanning is completed, the Save Scan Image dialog box appears.



- 5 Specify the folder where you want to save the file, enter the file name, then click [OK].

- When the Launch Application check box is checked, the scanned image will be displayed after the file is saved.
To display the scanned image successfully, Adobe Reader or Acrobat Reader must be installed on your computer.

Note

- The last 5 folders used are displayed in the Save Folder dropdown list.

- 6 Click [Close] on the Panaboard Operation Panel window to end the session.

Note

- Board Image Capture cannot be started while the Panaboard Operation Panel is displayed using Quick Image Navigator or Panasonic-DMS. To start Board Image Capture, click [**Close**] in the Panaboard Operation Panel window, then start Board Image Capture.
- To stop Board Image Capture from starting automatically when the Panaboard is connected, follow the steps below:
 - 1) Connect your computer and Panaboard with the USB cable.
 - 2) Click [**Start**], move the pointer to **Settings–Control Panel**, then double-click **Scanners and Cameras**.
 - For Windows XP, click [**Start**] and move the pointer to **Control Panel**.
 - For Windows Vista, click [**Start**] and move the pointer to **Control Panel**, then click **Hardware and Sound**.
 - 3) Double-click **Panaboard-UB5 USB Device Driver** and check the **Disable device events** check box in the **Events** tab.

To start Board Image Capture, click [**Start**], then move the pointer to **Programs–Panasonic–Board Image Capture–Board Image Capture**. (For Windows XP / Windows Vista, **All Programs** is displayed instead of **Programs**.)

■ Scanning with the Quick Image Navigator / Panasonic-DMS

You can scan images on the screen to your computer by operating Quick Image Navigator or Panasonic-DMS.

- 1 Click [**Start**], move the pointer to **Programs–Panasonic–Panasonic Document Management System–Quick Image Navigator** (for Quick Image Navigator) or **Document Manager** (for Panasonic-DMS). (For Windows XP / Windows Vista, **All Programs** instead of **Programs**.)
- 2 For Quick Image Navigator: From the **File** menu, click **Environment Setup...**, click **TWAIN** tab, then click **Select TWAIN-compliant scanning device...**.
For Panasonic-DMS: Click the **File** menu, then click **Select source...**
- 3 Select **Panaboard UB5-7 USB TWAIN Driver** and click [**Select**].

- 4 For Quick Image Navigator: From the **File** menu, click **Acquire Image... - To Import Folder...** (or **To Current Folder...**), or click the (scanner) icon on the Toolbar.
For Panasonic-DMS: Click the **File** menu, then click **Acquire Image...**, or click the (scanner) icon on the Toolbar.
 - The Panaboard Operation Panel appears.



Note

- When the Panaboard Operation Panel is not displayed, check the USB cable connection or the condition of the electronic board.

- 5 Click the  (Scan) button or the  (2-Screen Scan) button.
 - Scanning starts and the scanned image will be displayed on the screen of the computer. It is also possible to start scanning using the  (Copy Key) or  (2-Screen Copy Key) on the electronic board.
- 6 Click [**Close**] on the Panaboard Operation Panel to finish scanning.
 - For more information about Quick Image Navigator, refer to the Quick Image Navigator operating instructions.
 - For more information about Document Manager, refer to the Panasonic-DMS operating instructions.

Note

- Dragging the Panaboard Operation Panel using the mouse or activating other software programs during scanning may cause scanning troubles.

Computer Interfacing

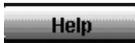
■ Panaboard Operation Panel

It is possible to perform the same operations as with the electronic board control panel (page 9) from the following Panaboard Operation buttons.

Note

- While the Panaboard Operation Panel is displayed, the Copy Key and 2-Screen Copy Key on the electronic board control panel are used for scanning images into the computer.

Panel	Name	Description
	Contrast/ Remaining Film Indicator	<p>This lamp indicator notifies the user when the time to replace the thermal transfer film is approaching (estimated) and of the contrast used during scanning or copying.</p> <p>Indicator off: Normal scanning or copying contrast Indicator on: Darker than normal scanning or copying contrast</p> <p>Indicator flashing*: Almost time to replace the thermal transfer film (Note that only about 15 more sheets may be copied when this indicator starts flashing.)</p> <p>Replacement film (UG-6001) is separately available from the dealer where you purchased your unit.</p> <p>* The flashing indicator will go out after the power is turned off, or the printer has been opened and closed. (When copying is performed, this indicator will begin flashing again.)</p>
	Contrast Button	Each time this button is pressed, the unit will alternate between normal and dark contrast modes (Normal/Dark).
	2-Screen Scan Button	This button scans the front and back of the screen on a single page.
	Multi-Copy/ Error Indicator	<p>This indicator displays the number of copies to be made. The display changes each time the Multi-Copy/Stop Button is pressed.</p> <p>Example: 1 → 2 → ... → 9 → 1 → ...</p> <p>When an error occurs, a flashing symbol will appear in this display to indicate the error status. (See page 27.)</p>
	Multi-Copy/Stop Button	<p>When making multiple copies, press this button until the desired number of copies is displayed on the Multi-Copy/Error Indicator. This button can also be pressed to stop copying while executing multiple copies.</p> <ul style="list-style-type: none"> • The display changes as shown below each time the screen is copied. After reaching 0, the display will reset to 1. Example: 5 → 4 → 3 → 2 → 1 → 0 → 1 (Number is counted down.) <p>* If scanning, the setting 1 to 9 for the number of copies is ignored.</p>
	Scan Button	This button scans the screen.
	Advance Button	Clicking this button advances the screen from right to left.

Panel	Name	Description
	2-Screen Copy Button	This button causes the front and back of the screen to be copied on a single sheet of paper.
	Copy Button	This button causes the screen to be copied.
	Status Box	<p>The status box displays the status of the TWAIN driver and the electronic board.</p> <p>Stand by: The electronic board is stand by. Both of the Panaboard Operation Panel and the electronic board control panel are operational.</p> <p>Rotating: The electronic board is rotating the screen.</p> <p>Copying: The electronic board is copying the screen.</p> <p>Scanning: The electronic board is now scanning the images on the screen.</p> <p>Converting: Indicates that the image data is being converted so that the computer will be able to display the scanned data.</p> <p>Busy: The electronic board is processing jobs.</p> <p>Error: An error has occurred with the electronic board.</p>
	About Button	Click to display information about the TWAIN driver.
	Help Button	Click to display help information.
	Close Button	Click to close the Panaboard Operation Panel.

■ Printing

To print documents from the computer to the printer, select the Print menu of the application software and select the printer name set when installing.

The standard printer name is “Panaboard-UB5 USB Printer (A4/Letter)*”.

* A4 or Letter changes with the models.

Note

- The Multi-Copy/Error Indicator flashes when printing. After printing, all the panel keys are disabled until the Multi-Copy/Error Indicator lights.
- You cannot stop printing after printing starts. Do not attempt to stop printing.
- Do not turn off the power of the electronic board or unplug the USB cable before printing finishes. It may cause the computer operation to become unstable.
- A maximum 9 copies are available.
- The output port can hold up to 10 sheets of copied paper. (Note that exceeding the output port’s capacity may result in paper jams.)
- The Contrast Key is not effective for adjusting the contrast of print.
- When printing almost black pages continuously uniform colour density and light line streaks may appear. In such a case, try again after waiting a while.
- When the unit falls in abnormal condition during printing, printing jobs (jobs in the spooler) may be lost. In such a case, print again.

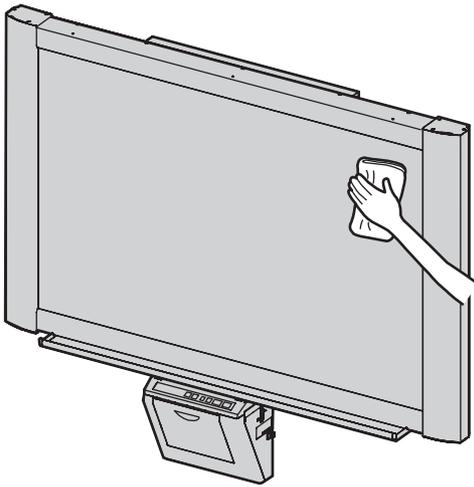
Daily Care and Maintenance

Daily Care and Maintenance

Always turn off the power switch and unplug the power plug when cleaning outside and inside the unit.

■ Cleaning the screen and the unit

Gently wipe the screen film and unit with a water-dampened cloth that has been thoroughly wrung.

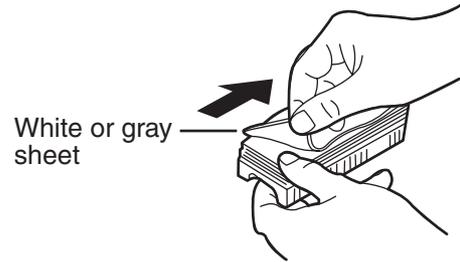


Note

- Use a neutral kitchen cleaner diluted with water for hard-to-clean stains. If you accidentally write on the screen with an oil-based marker, wipe with a small amount of ethyl alcohol.
- Do not use thinner, benzine or cleaners containing abrasives as this may result in discoloration.
- Do not wipe the screen film with a dry cloth as this may generate a static charge.

■ Caring for the eraser

When the erasing surface of the eraser becomes dirty, hold down the sheet under the top sheet with your finger and peel off the dirty sheet (white or gray sheet) by pulling in the direction of the arrow.



Note

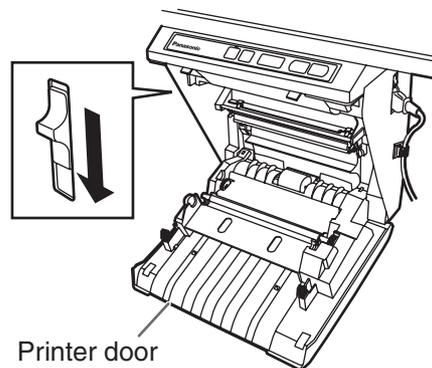
- Be sure to peel off only one sheet; white or gray sheet of the eraser.
- When the eraser becomes thin, make sure that the corners of the eraser do not strike the screen during erasing as this may damage the screen.

■ Cleaning the printer head, platen roller and pick-up roller

If black streaks appear on the copy, clean the printer head and the platen roller.

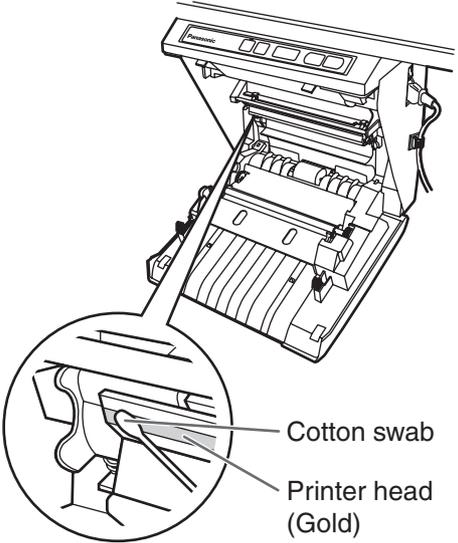
If paper jams occur frequently, clean the pick-up roller.

- 1 Push down the printer open lever and open the printer door.



2 Clean the Printer Head

Dampen the tip of a cotton swab in ethyl alcohol and gently wipe the printer head.

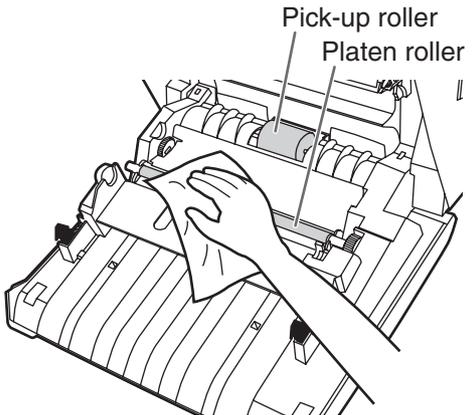


Note

- Never touch the printer head or the surrounding area with your hands as this may disable copying.

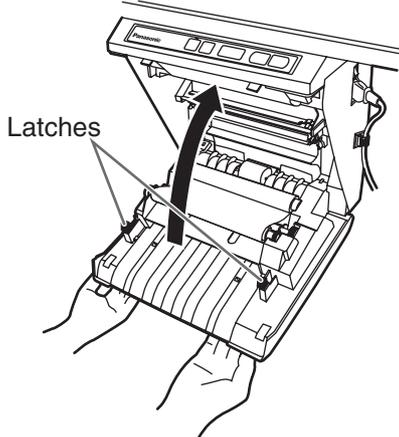
3 Clean the Platen Roller and the Pick-up Roller

Remove the thermal transfer film with both hands and carefully wipe any dirt or stains off the platen roller and pick-up roller.



- For details on removing the thermal transfer film, see page 14.
- Dampen a soft cloth with neutral kitchen cleaner diluted in water, wring the cloth thoroughly, and wipe the entire surface of the rollers while rotating them. If this does not remove all dirt, wipe with a cloth dampened with ethyl alcohol.

4 Install the thermal transfer film in its original position and close the printer door.



- For details on installing the thermal transfer film, see pages 10.
- Close the printer door firmly until a click is heard.

Note

- If "r" is still flashing after closing the printer door, make sure that the thermal transfer film has been installed properly and tightened.
- The printer door should be closed to make copies properly. Confirm both latches are locked.

Troubleshooting

Troubleshooting

Treat problems according to the information given in the table below. If problems still persist, call your dealer for service.

Symptom	Care and Remedy	See Page
Power switch is on but the indicator is off.	Check that the power plug is securely plugged in. (If the indicator still does not light, turn the power off and on again.)	–
Copied copy paper will not come out.	The unit is out of copy paper or thermal transfer film. (The Error Indicator flashes “P” or “r”.) → Insert copy paper or replace the thermal transfer film.	11 14
	The printer door is open. (The Error Indicator flashes “d”.) → Close the printer door firmly until a click is heard.	11
	The paper cover is open. → Close the paper cover firmly until a click is heard.	12
	Paper is jammed in the printer. (The Error Indicator flashes “J”.) → Open the printer door and remove the jammed paper.	15
	The platen roller and pick-up roller are dirty. → Open the printer door and wipe the platen roller and the pick-up roller to clean them.	24
Nothing is printed on the paper or copies are faint or blurred.	The writing on the screen is too thin or light. → Make thicker, darker lines or change to a new marker.	–
	The printer door is slightly open. → Close the printer door firmly until a click is heard.	11
Black streaks or blank (unprinted) spots appear on the copy (copy paper is dirty).	The printer head or platen roller is dirty. → Open the printer door and clean any dirt off the printer head and platen roller.	24
	The thermal transfer film is wrinkled because it was set in place without removing excess slack. → Rewind the used portion of the thermal transfer film to remove the excess slack, then reattach it.	10
A black or white horizontal line appears, or the page prints in black or blank.	The unit is in strong sunlight or strong lighting. → Change the direction of the screen or block the light.	–
The screen does not advance when the Copy or Advance Key is pressed.	Static electricity was generated when the screen film was wiped. → Turn off the power and slowly move the screen by hand.	–
Contrast/Remaining Film Indicator flashes.	The time to replace the thermal transfer film is approaching. (Only about 15 more sheets may be copied.) → Prepare a new replacement film (UG-6001).	14
When connecting a USB cable after installing the driver, the warning message is displayed to require the Panaboard UB5-7 Driver Disk.	The necessary file is not found in Windows 98. → Click the location’s box and select the path “UB5-7\UsbDrv\Win98-Me” in the pull down menu.	–
The software installed before is deleted from the Programs menu or cannot be used after installing the Panasonic-DMS.	After the existing Panasonic-DMS software is uninstalled, the new Panasonic-DMS is installed. → Install the new Panasonic-DMS again as follows. 1. Uninstall the current Panasonic-DMS. 2. Install the old Panasonic-DMS. 3. Install the new Panasonic-DMS in the same folder with the old one.	19-20

Symptom	Care and Remedy	See Page
Panasonic Document Management System menu is remained in the Programs menu even if Panasonic-DMS is uninstalled.	The old Panasonic-DMS is not uninstalled if the old version of the Panasonic-DMS has been installed before installing the new one. → Uninstall the old Panasonic-DMS from the Add / Remove Programs of the Control Panel. (Refer to “Removing Drivers / Board Image Capture / Quick Image Navigator” on page 19 and remove Panasonic-DMS instead of Panasonic UB5-7 Driver.)	19
The USB driver or printer driver does not work properly immediately after the installation of the software.	The Panaboard has not been registered in [Control Panel]–[Scanners and Cameras] and [Printers]. → Run “UB5-7\Uninstall\UB5-7Uninst.exe” in the CD-ROM to uninstall the drivers from the computer. Then, install the drivers.	18
The computer does not recognize the electronic board.	Check that the electronic board is in the condition that enables operation or that the USB cable is connected properly.	–
	The electronic board is connected via a USB hub. → Do not connect via a USB hub.	–

■ Meanings of error codes

The following table describes the meaning of each of the symbols which may flash in the Multi-Copy/Error Indicator.

Indication	Cause	Remedy	See Page
 (Error)	Data transfer error	Connect the USB cable securely.	17
 (Screen)	The screen will not move.	Turn off the power and slowly move the screen by hand.	–
 (door)	The printer door is not closed securely.	Close the printer door securely.	11
 (Jam)	Paper jam	Open the printer door and remove the jammed paper.	15
 (ribbon)	The thermal transfer film is slack, has run out or is not installed.	Remove the slack from the thermal transfer film, replace or install the thermal transfer film.	10 14
 (Paper)	Out of paper	Load copy paper.	11
 (Scanner Failure)	The scanner or screen is in strong sunlight or strong lighting.	Change the direction of the screen or block the light.	–

If other indications such as “H” appear, call your dealer.

Specifications

Specifications

	Model No.	UB-5325	UB-5825
General	Power supply	Refer to the name plate on the printer	
	Power consumption (Operational)	Refer to the name plate on the printer	
	External dimensions (Height × Width × Depth, without stand)	1396 mm × 1550 mm × 230 mm	1396 mm × 1912 mm × 230 mm
	Mass (without stand)	36.0 kg	38.5 kg
	Ambient operating conditions	Temperature: 10–35° C (50–95° F) Humidity: 30–80% RH	
	Ambient storage conditions	Temperature: -20–60° C (-4–140° F) Humidity: 15–80% RH	
	Writing implements	Dry erase felt-tipped markers (black, red, and blue)	
	PC interface	USB 1.1	
Input Block	Panel dimensions (Height × Width)	900 mm × 1400 mm (1664 mm diagonal)	900 mm × 1762 mm (1978 mm diagonal)
	Panel surfaces	2	
	Panel advance system	Endless scroll type	
	Copying area (Height × Width)	850 mm × 1330 mm	850 mm × 1692 mm
	Scanning system	Image sensors	
	Scanning resolution (Height × Width)	A4: 1.6 x 1.7 dots/mm Letter: 1.7 x 1.6 dots/mm	A4: 1.6 x 1.3 dots/mm Letter: 1.7 x 1.2 dots/mm
Output Block	Printing system	Fusion thermal transfer type	
	Printing resolution	8 dots/mm	
	Copy paper	Standard or recycled paper (60 - 90 g/m ²)	
	Copy paper size	A4/Letter* ¹	
	Copy colour	Black	
	Contrast adjustment	Two levels: Normal/Dark	
	2-screen compressed copying	Yes	
	Time required for copying	15 s/sheet	
	Continuous copies	1 to 9 sheets	
Paper empty indication	Yes		

■ Option and Separately available

Option	Stand: KX-B061
	Wall-mounting Kit: KX-B063
Separately Available	Replacement film: UG-6001 (Set of 2 rolls [50 m])
	Markers: KX-B031 (set of 10 black markers), KX-B032 (set of 10 red markers), KX-B033 (set of 10 blue markers)
	Erasers: KX-B042 (set of 6 erasers)
	Marker and eraser set: KX-B035 (contains one black, one red, and one blue markers and one eraser)

*¹ Letter size is for U.S.A. and Canada models.