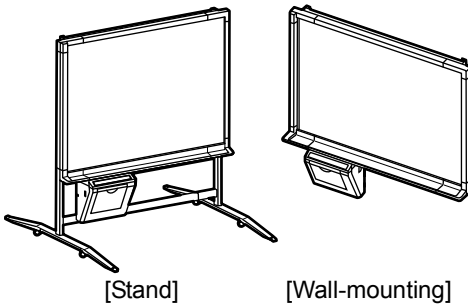


## Operating Instructions

### Electronic Board (Panaboard)

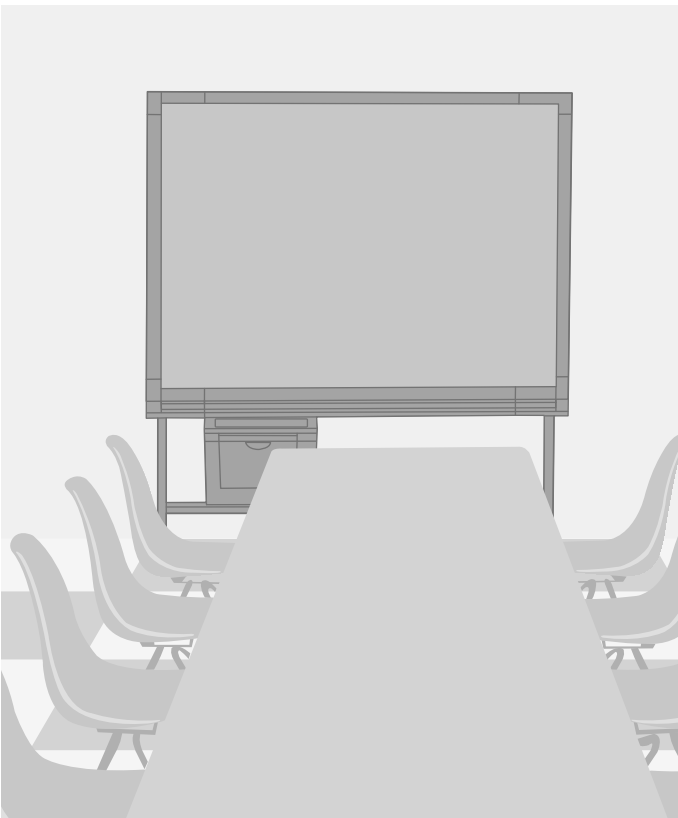


[Stand]

[Wall-mounting]

The unit in this illustration is UB-5335.  
Stand is sold separately.

Model No. UB-5335  
UB-5835  
UB-5365  
UB-5865



- Before operating this unit, please read these instructions carefully and keep them for future reference.
- Please refer to attached Installation Manual.  
Installation performed by non-authorized individuals could cause safety-related problems with the operation of this equipment.

**For U.S.A. only:**

- To locate the closest authorized dealer in your area, please call 1-800-449-8989.

# Introduction

---

Thank you for purchasing the Panasonic Electronic Board.

**For optimum performance and safety, please read these instructions carefully.**

## ■ Feature Highlights

Models UB-5335, UB-5835, UB-5365 and UB-5865 are film board type electronic boards. The UB-5335 and UB-5365 are the standard type-size models, and the UB-5835 and UB-5865 are the wide type-size models. The screen uses film, enabling easy switching between the front and back of the screen and use of the following functions.

Both the UB-5365 and UB-5865 have the metallic type of screen frame.

## ■ Printing

Allows scanned black-and-white hand-written text/diagrams to be printed from the built-in printer.

## Storing on a USB Flash Memory Device

Allows scanned black-and-white hand-written text/diagrams to be stored onto a USB flash memory device.\*1

\*1 USB flash memory devices equipped with features such as a security function or hub function cannot be used with this unit.

### Note

- For information regarding available USB flash memory devices, refer to the following site:  
UB-5335 / UB-5835: [http://panasonic.net/pcc/support/eboard/ub-5335\\_info.html](http://panasonic.net/pcc/support/eboard/ub-5335_info.html)  
UB-5365 / UB-5865: [http://panasonic.net/pcc/support/eboard/ub-5365\\_info.html](http://panasonic.net/pcc/support/eboard/ub-5365_info.html)

## Computer Interfacing

The USB Mass Storage Device allows you to copy scanned black-and-white hand-written text/diagrams when a computer is connected. It is not necessary to install special drivers or software to your computer. It is possible to save a maximum of 10 scanned image files to the electronic board.

## ■ Trademarks

- Microsoft, Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- IBM is a trademark of International Business Machines Corporation in the United States, other countries, or both.
- All other trademarks identified herein are the property of their respective owners.
- 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.

## ■ Exemption of Liability

Panasonic System Networks Co., Ltd. is not responsible for accidents or injuries caused by, but not limited to, the following:

1. Altering the device or improper installation construction.
2. Using the device for purposes beyond its intended use.
3. Earthquake, fire, flood, tidal wave, hurricane, lightning or other natural phenomena.
4. Natural aging of the building or similar phenomena.

### Note

- The illustrations shown in these instructions are based on a UB-5335.

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# For Your Safety

To prevent severe injury and loss of life, read this section carefully before using the unit to ensure proper and safe operation of your unit.

- This section explains the graphic symbols used in this manual.

 <b>WARNING</b>	Denotes a potential hazard that could result in serious injury or death.
 <b>CAUTION</b>	Denotes hazards that could result in minor injury or damage to the unit.
   	These symbols are used to alert operators to a specific operating procedure that must not be performed.
  	These symbols are used to alert operators to a specific operating procedure that must be emphasized in order to operate the unit safely.

## **WARNING**

### Power and Ground Connection



The power source voltage of this unit is listed on the nameplate. Only plug the unit into an AC outlet with the proper voltage.

If you use a cord with an unspecified current rating, the unit or plug may emit smoke or become hot to the touch.



When you operate this product, the power outlet on the wall should be near the product and easily accessible.



To ensure safe operation the power cord supplied must be inserted into a standard three-prong AC outlet which is effectively grounded (earthed) through the normal wiring.



The fact that the equipment operates satisfactorily does not imply that the power point is grounded (earthed) and that the installation is completely safe. For your safety, if in any doubt about the effective grounding (earthing) of the power point, consult a qualified electrician.



If the plug cannot be inserted into the AC outlet, contact a licensed electrician to replace the AC outlet with a properly grounded (earthed) one.



Do not defeat the grounding (earthing) plug (ex. do not use a conversion plug).



Plug the power cord firmly into an AC outlet. Otherwise, it can cause fire or electric shock.



Do not pull, bend, rest objects on, or chafe the power cord and plug. Damage to the power cord or plug can cause fire or electric shock.



Do not attempt to repair the power cord or plug. If the power cord or plug is damaged or frayed, contact an authorized service representative for a replacement.



Ensure that the plug connection is free of dust. In a damp environment, a contaminated connector can draw a significant amount of current that can generate heat and eventually cause fire if left unattended over an extended period of time.



Never touch the plug with wet hands. Danger of electric shock exists.



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



When disconnecting the unit, grasp the plug instead of the cord. Pulling on a cord forcibly can damage it and cause fire or electric shock.



During thunderstorms, do not touch the unit and plug. It may cause an electric shock.



Do not use damaged plugs or warped outlets. Otherwise, it may cause fire, electric shock, or short circuit.

## Installation and Relocation



Have the unit installed, removed and disposed of only by qualified service personnel.



When the unit will no longer be used, in order to prevent it from falling, do not leave the unit installed, but request qualified service personnel to remove the unit. If the unit falls, it can cause injury.

## Operating Safeguards



If metal fragments or water gets into the unit, unplug the unit immediately. Contact your dealer for service. Operating the contaminated unit can cause fire or electric shock.



Never open or remove unit covers that are screwed with screws unless specifically instructed in the "Operating Instructions". A high-voltage component can cause electric shock.



Do not alter the unit or modify any parts. Alteration or modification can cause fire or electric shock.



Do not insert foreign objects into the unit. Otherwise, it may cause fire or electric shock.



### CHOKING HAZARD

Keep the marker's cap, battery or USB flash memory device out of reach of children to prevent choking.

### Battery



Use only the specified type of battery. Using the incorrect type of battery can result in overheating/burning or leakage of battery acid.



Make sure that the battery is installed with the correct polarity as indicated on the battery holder. Incorrectly installed batteries may burst or leak, resulting in injuries.



Do not use the damaged batteries. Using damaged batteries may result in leaking.



Do not charge, short, heat, break or throw in a fire, as it may result in the battery leaking, generating heat, or bursting.



When disposing of the battery, cover the battery contacts with insulation (ex. tape). Direct contact with other batteries may result in leaking, fire, or explosion.



Do not solder the battery, as it may result in the battery leaking, generating heat, or bursting.



Remove empty batteries immediately to avoid battery fluid leakage. Avoid contact of battery fluid with eyes, skin or clothing, as this may result in irritation or injury. In these cases, do not rub the affected area, and rinse thoroughly with clean water.



Dispose of used batteries according to the instructions.

### CAUTION

#### Power



When the unit is not used over an extended period of time, unplug it. If an unused unit is left connected to a power source for a long period, degraded insulation may cause electric shock, current leakage or fire.



The unit should be used only with the power cord enclosed with the unit.

#### Installation and Relocation



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



Do not place the unit in a hot humid or dusty environment. Prolonged exposure to these adverse conditions may cause fire or electric shock.



To prevent fire or shock hazard, do not expose this unit to rain or any type of moisture.

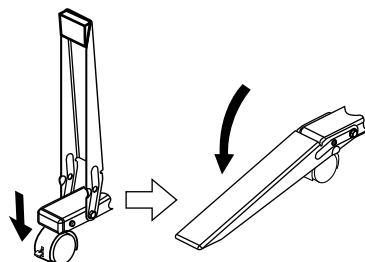


When moving the unit, be sure to unplug the power cord from the AC outlet. If the unit is moved with the power cord attached, it can cause damage to the cord which could result in fire or electric shock.



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

Locking the casters  
(Push to lock)



Move this unit with two persons. Otherwise, this unit may fall down and cause injury.

## Operating Safeguards



If the unit is fallen down or damaged, unplug the power cord. Otherwise, it may cause fire or electric shock.



Do not put drinks, other liquids or heavy items on the tray or screen. Accidental spillage of liquid into the unit may cause severe damage. If this occurs, unplug the power cord and contact your dealer for service.



Refrain from lifting, leaning against or dangling from the unit. Doing so may incline the unit at an angle, topple it or remove it from the wall, resulting in injury.



When using the stand, be sure to watch your step so that you do not bump into or trip over the fall-prevention extension legs. The label of precautions is attached to the stand UE-608005 (sold separately).



When using marker pens for long periods, ensure good ventilation. Otherwise, you may feel unwell from the odors of their inks.



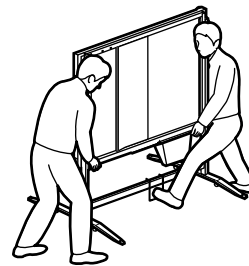
Do not dispose the marker in fire, even if it is used up. Otherwise, you may feel unwell from the odor of the ink.



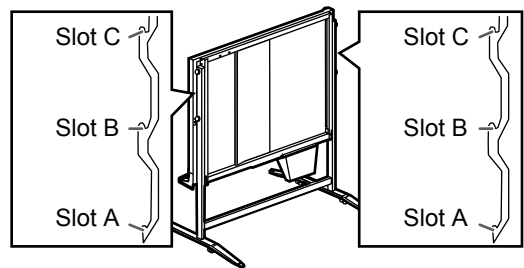
Do not take hold of the tray when adjusting the screen height.



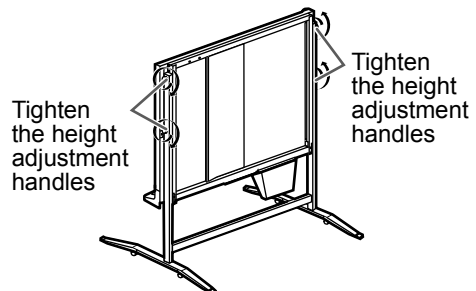
Adjust the screen height with two persons after installation.



Confirm both sides of the screen are hung in the same height slots.



Be sure to tighten the height adjustment handles firmly after adjusting the level of the screen.





## Battery



When the unit is not used over an extended period of time, take the batteries out of the unit. Otherwise, the batteries may leak. Do not use the leaked batteries.

### Safety Information (For United Kingdom only)

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 PREMISES, 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.

#### How to replace the fuse:



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

### Precautions

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

#### About Using the Battery

If a battery is used improperly, the battery may leak, causing corrosion of the unit, or it may burst. To prevent this, always follow the precaution given below.

- Always insert battery with its polarity properly oriented.
- If the battery has run out, remove it immediately and dispose of it according to local regulations. Leaving drained battery may result in leakage.
- Do not disassemble battery or place it in a fire.
- Do not short battery.

#### About Disposing of the Battery

##### For Taiwan (台灣)



廢電池請回收

##### For U.S.A

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material - special handling may apply.

See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate).

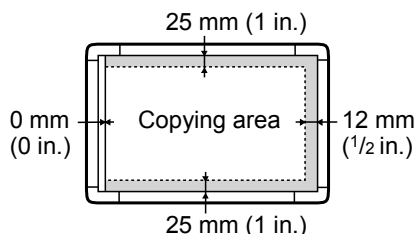
# Precautions

## ■ Installation

- 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 drop below 10 °C (50 °F) or may change suddenly as this may disable the unit's ability to make copies.

## ■ Screen Film

- 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 erase with an overly dirty eraser.
- 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 attach chart paper to the screen film for copying as this may result in damage to the unit.



## ■ Markers and Erasers

- To maintain erasing quality, use only the included or designated markers and erasers (see page 37).  
**Use of accessories other than those included or designated (such as commercially available oil-based markers) may damage the screen film or result in hard-to-erase markings.**
- Be sure to replace the cap on markers after use, and store horizontally.
- Overshaking or dropping the marker may cause the ink to overflow.
- Do not use the markers for purposes other than writing or drawing. There is a possibility of damage.
- Do not leave the markers in locations subject to high temperatures. The ink may leak.

## ■ Thermal Transfer Film

- 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 (164 ft.). 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.**  
**The supplied thermal transfer film roll is short, and the number of possible copies will differ from that of replacement film rolls. We suggest that you stock replacement film rolls.**

## Precautions

---

### **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.

When using USB flash memory devices or computers, carefully read the notes in the operating instructions.

#### **Please observe carefully the following precaution:**

- When storing data on a USB flash memory device, check on another computer or device to make sure the stored data has been properly saved before erasing text or diagrams written on screen film.
- 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.

### **Please take the following precautions regarding the deletion of classified data, when discarding the USB flash memory device or giving the USB flash memory device to another person.**

Using basic operations such as “format” or “delete” on a computer may not completely erase the data from the USB flash memory device.

To guarantee that the data you wish to erase will no longer exist, we recommend that you physically destroy the USB flash memory device or use a file deleting software to erase the data.

The data that is stored on a USB flash memory device is the sole responsibility of you, the customer.

**The included power cord is for use with this unit only. Do not use it with other devices.**

## ■ Illegal Duplication

### **It is unlawful to make duplication of certain documents.**

Duplicating certain documents may be illegal in your country/area. Penalties of fines and/or imprisonment may be imposed on those found guilty. The following are examples of items that may be illegal to duplicate in your country/area.

- Currency
- Bank notes and checks
- Bank and government bonds, and securities
- Passports, licenses, official or private documents, identification cards, and the like
- Copyright materials, or trademarks without the consent of the owner
- Postage stamps, and other negotiable instruments

This list is not inclusive, and no liability is assumed for either its completeness or accuracy.

In case of doubt, contact your legal counsel.

**Notice:** Install your machine near a supervised area to prevent illegal duplication from being made.

## ■ Federal Communications Commission Requirements (For UB-5335 and UB-5835 only)

### For United States Only

#### Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**FCC Warning:** To assure continued FCC compliance, the user must use only shielded interface cable and the provided power supply cord. Also, any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

## ■ For FRG Users (For Germany Only)

**Note:** Machine noise information regulation - 3.GPSGV, the maximum sound pressure level is 70 dB(A) or less, in conformity with EN ISO 7779.

This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflexions at visual display workplaces this device must not be placed in the direct field of view.

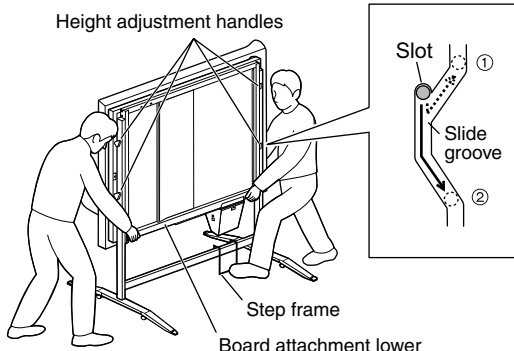
## Precautions

### Warning Labels

The following labels have been affixed to the unit to ensure that the unit will be used safely. Read their precautions carefully to ensure safe use.

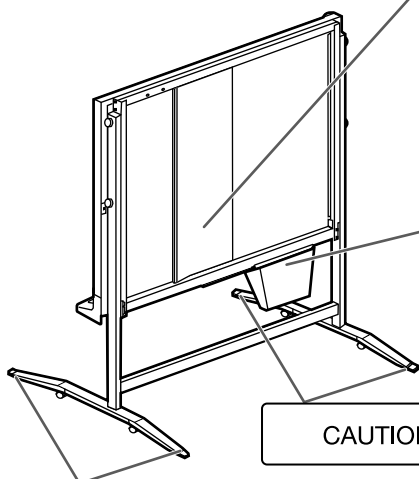
#### Screen Height Adjustment

1. Hook the step frame.
2. Loosen the height adjustment handles.
3. Hold the board attachment lower and lift.
4. Slide along the slide groove and hang the screen in the desired slots.  
① : Reduce the height of the electronic board  
② : Increase the height of the electronic board
5. Tighten the height adjustment handles.



#### CAUTION

- ❗ The screen height must be adjusted by two people.
- ❗ Confirm both sides of the screen are hung in the same height slots.
- ❗ Make sure to tighten the height adjustment handles after adjusting the screen height.



**WARNING:** TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**ATTENTION:** NE PAS ENLEVER LE BOITIER, RISQUE DE CHOCES ELECTRIQUES. CERTAINES PIECES DETACHEES NE SONT PAS INTERCHANGEABLES. EN CAS DE PROBLEME, FAIRE APPEL A UN TECHNICIEN QUALIFIE.

**ACHTUNG:** GERÄTEDECKEL NICHT ABNEHMEN, UM ELEKTRISCHE SCHLÄGE ZU VERMEIDEN. ES SIND KEINE VOM ANWENDER ZU WECHSELNDEN TEILE EINGEBAUT. DAS GERÄT DARF NUR VON GESCHULTEM SERVICE-FACHPERSONAL GEÖFFNET WERDEN.

CAUTION: WATCH YOUR STEP

CAUTION: WATCH YOUR STEP

# Included Accessories

Check that all of the following items are included with your electronic board.  
In the event that an item is missing, please contact your dealer.

## Accessories

<input checked="" type="checkbox"/> Operating Instructions (this document).....	1
<input type="checkbox"/> Installation Manual.....	1
<input type="checkbox"/> Power Cord (Approx. 3 m [9 ft. 10 1/8 in.].....)	1
<input type="checkbox"/> A4 (Letter* <sup>1</sup> ) size copy paper.....	For testing the printer at installation
<input type="checkbox"/> Warranty Card* <sup>2</sup> .....	1
<input type="checkbox"/> USB Cable* <sup>3</sup> (Approx. 5 m [16 ft. 4 7/8 in.].....)	1

## <Consumables>

<input type="checkbox"/> Thermal transfer film.....	1
<input type="checkbox"/> Lithium battery (CR2032 type).....	1
<input type="checkbox"/> Markers (black).....	2
<input type="checkbox"/> Eraser.....	1

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

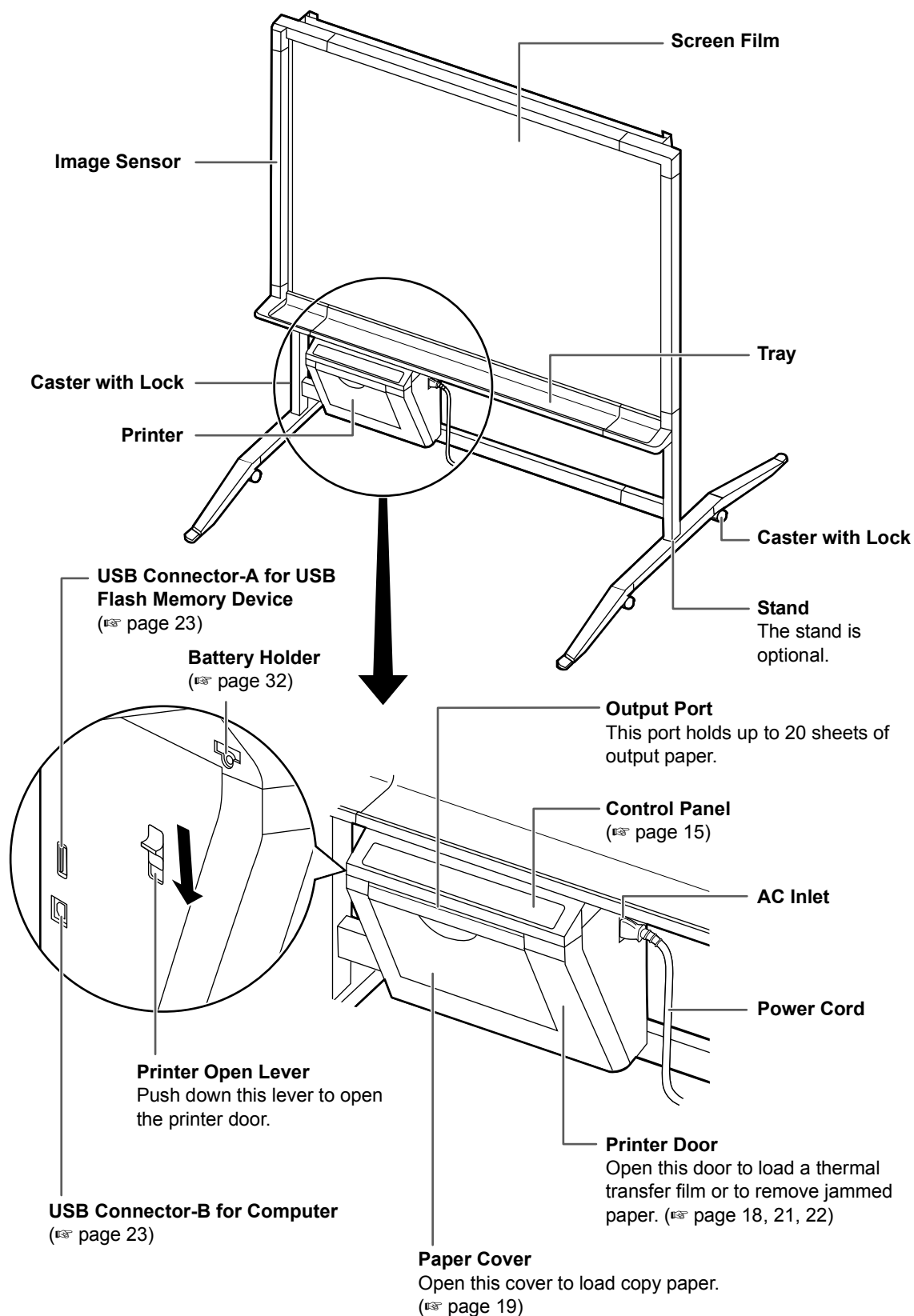
\*2 For U.S.A. and Australia only.

\*3 For UB-5365 and UB-5865 only.

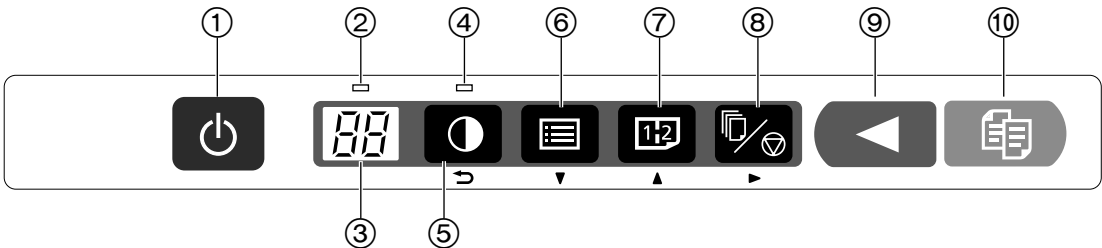
Use a commercially available USB cable for both the UB-5335 and UB-5835.

- Consumables are available separately. For model numbers of separately available items, see page 37.
- A lithium battery is embedded in the unit. If the current time is reset when the unit is turned on by pressing the Power Key, replace the lithium battery with the same type of commercially available battery.  
For lithium battery replacement procedures, see page 32.















# Part Names and Functions



■ Control panel








1

No.	Panel	Name	Description
①		Power Key	Each time this key is pressed, the unit will alternate between power on and off. When  is pressed to turn on the power, "  " appears in the Display Window; after this, "  " appears if the USB flash memory is connected, "  " appears if a computer is connected or "  " appears if nothing is connected, and the unit will switch to ready mode. The current time must be set when using the unit for the first time. "  !" is displayed first. (☞ page 30)
②		Remaining Film Indicator	This lamp indicator notifies the user when the time to replace the thermal transfer film is approaching (estimated). (☞ page 21) <ul style="list-style-type: none"><li>Indicator off: Printing is now possible.</li><li>Indicator flashing*: Almost time to replace the thermal transfer film <b>(Note that only about 15 more sheets may be copied when this indicator starts flashing.)</b> Replacement film (☞ page 37) is separately available from the dealer where you purchased your unit.</li></ul> <b>* The flashing indicator will go out after the power is turned off and the printer has been opened and closed. (When copying is performed, this indicator will begin flashing again.)</b>
③		Display Window	<ul style="list-style-type: none"><li>Printer output: This window displays the number of copies to be made. The display changes each time  is pressed. Example: 1→2→...→9→1→...</li><li>USB flash memory device output: "" is displayed.</li><li>Computer output: "" is displayed.</li><li>When an error occurs: A symbol flashes indicating the error status (☞ pages 34 and 35).</li><li>When the digits in the Display Window are flashing, it means that there is printer-ready data.</li></ul>
④		Contrast Indicator	This lamp indicator notifies the user the printing contrast used during copying. <ul style="list-style-type: none"><li>Indicator off: Standard contrast</li><li>Indicator on: Darker than standard contrast</li></ul>
⑤		Contrast Key	Each time this key is pressed, the unit will alternate between normal and dark contrast modes (Normal/Dark).
			This key is used to cancel error indicators U23 to U26 and U31 to U33 (☞ page 35). In setting mode: Returns to ready mode. (☞ page 28)

Before You Start

## Part Names and Functions

No.	Panel	Name	Description
⑥		<b>Menu Key</b>	Press to change the basic settings of this unit. (Enter setting mode) (☞ page 28)
			In setting mode: Selects items or values to set. (☞ page 28)
⑦		<b>2-Screen Copy Key</b>	This key causes the front and back of the screen to be copied on a single sheet of paper. (☞ page 20)
			In setting mode: Selects items or values to set. (☞ page 28)
⑧		<b>Multi-Copy/ Stop Key</b>	Set the total number of copies to be made using the printer. Keep pressing the key until the desired number of copies appears in the Display Window. (☞ page 20)
			This key can also be pressed while copies are being made to stop the copying process.
			In setting mode: Switch between setup of each item. (☞ page 28)
⑨		<b>Advance Key</b>	The screen film will advance from right to left, and it will switch from the front to the back or vice versa.
⑩		<b>Copy Key</b>	<p>The front of the screen film will be copied.</p> <ul style="list-style-type: none"> <li>• Printer output: The display indication changes while multiple copies are being made as shown below. After reaching “1/1”, the display will reset to “1/1”. Example: 5→4→3→2→1→0→1 (When multi-copy function is used, the total number of copies is decremented by one each time a copy is made.)</li> <li>• USB flash memory device output: “1/1” will change to “1/1”, then back to “1/1”.</li> <li>• Computer output: “1/1” will change to “1/1”, then back to “1/1”.</li> </ul>
			<p>When a printer error has occurred during coping, first release the error, and then resume printing.</p> <ul style="list-style-type: none"> <li>• If the copy paper has run out while using multi-copy function, load the copy paper, and press the Copy Key again. The remaining copies will now be printed.</li> <li>• Release the printer error U11 to U14 (☞ page 34) which occurred during printing, and press the Copy Key again to resume printing.</li> </ul>

Power operation mode and setting mode

Mode	Display Window	Description
Active Mode	Number lighted Display flashes	The Copy Key or 2-Screen Copy Key has been pressed and the unit is scanning.
Ready Mode	Display lights	The Power Key on the control panel has been pressed and the power is on. The unit is on standby. Scans and setup can be performed.
Off Mode	— (Blank)	The Power Key on the control panel has not been pressed and the unit is not on. If the electronic board is left in the ready mode or in the setting mode, it will automatically switch to the off mode after about 1 hour. When the computer is connected or while the Remaining Film Indicator flashes, the electronic board will not automatically switch to the off mode.

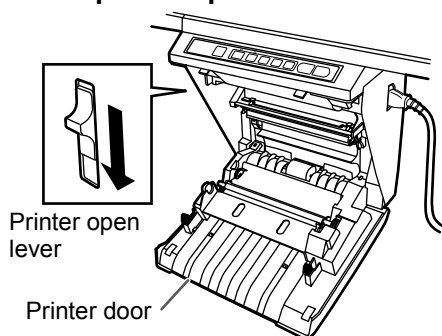
# Before Using

## Installing the Thermal Transfer Film

### 1 Insert the power cord into the AC outlet and press the Power Key .

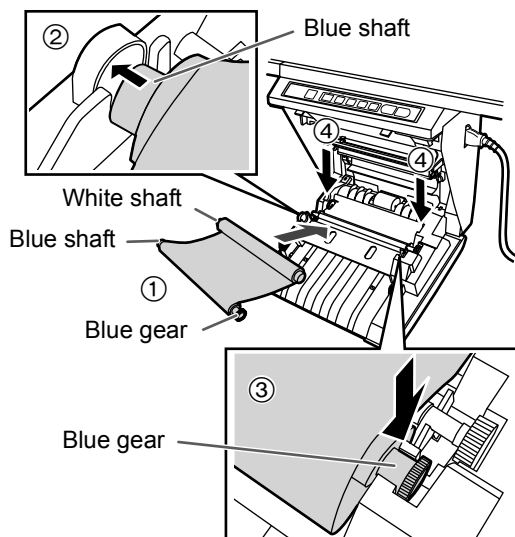
- If the screen is not in the home position, the screen will move to home position and stop.
- If a 2-digit number appears in the Display Window, it is necessary to set the current time. (See step 4 on page 30)
- “U ↔ L” will flash on the Display Window when the thermal transfer film has run out.

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



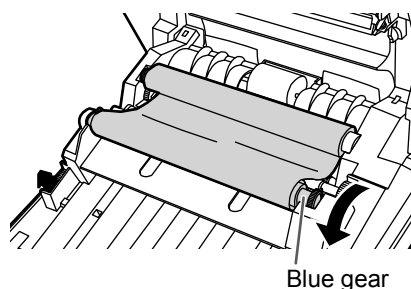
### 3 Install the thermal transfer film.

- 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.

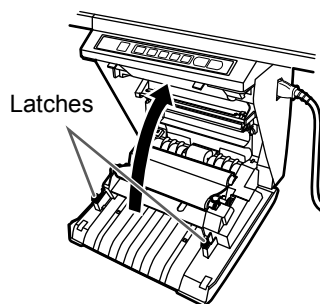


### 4 Tighten the film, then close the printer door.

- ① Rotate the blue gear in the direction of the arrow to take up the slack on the film.
  - If there is some slack, the thermal transfer film will wrinkle, and blank (unprinted) spots or lines will appear on the copy paper.



- ② Securely close the printer door until a click is heard.
  - “U ↔ L” flashing on the Display Window will go out.





#### Notice

- If “U ↔ 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.

#### Note

- The supplied thermal transfer film roll is short, and the number of possible copies will differ from that of replacement film rolls. We suggest that you stock replacement film rolls.

## 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/m<sup>2</sup>). Note that only A4 (Letter\*) size paper may be used. When the unit is first used or when “ ↔ ” flashes on the Display Window to indicate that the unit is out of paper, load copy paper as described below.

### 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 to 90 g/m<sup>2</sup> 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. (DOING SO MAY RESULT IN PAPER JAMS.)

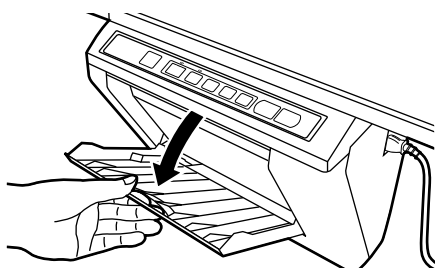
- Extremely smooth or glossy paper
- Coated paper
- Thermal paper
- Paper that is printed on one side
- Wrinkled paper, creased paper

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

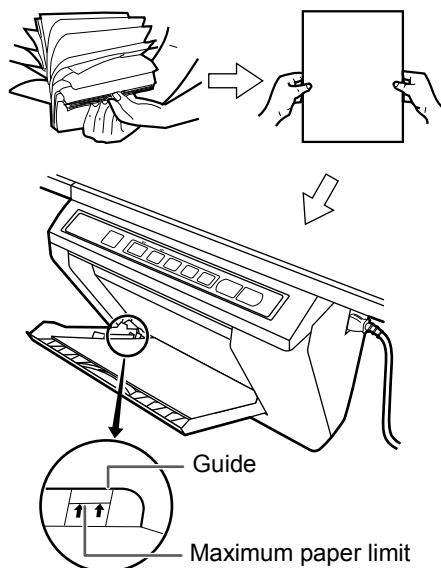
## 1 Insert the power cord into the AC outlet and press the Power Key .

- If the screen is not in the home position, the screen will move to home position and stop.
- “ ↔ ” will flash on the Display Window when copy paper has run out.

## 2 Pull the paper cover forward as shown.



## 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.

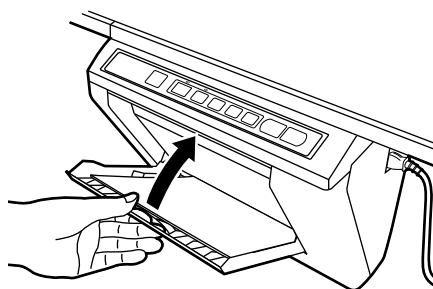


### Notice

- Only use A4 (Letter\*) size copying paper having a weight of 60 to 90 g/m<sup>2</sup> 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 figure above) as this may result in paper jams. (Note that the unit can hold about 40 sheets of paper having a weight of 80 g/m<sup>2</sup>.)

## 4 Close the paper cover until a click is heard.

- “” will light in the Display Window.



### Notice

- The paper cover should be closed to make copies properly. Confirm the both latches are locked.

# Scanning

It is possible to scan text and diagrams written on the screen film, and then output to make multiple copies with the printer or save as image data on a USB flash memory device or computer.

If multiple output devices are connected to this unit at the same time, the output destination will be selected in the following priority:

1. Computer
2. USB flash memory device
3. Built-in printer

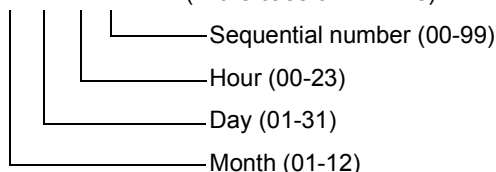
## Notice

- Do not install the unit in places subject to direct sunlight or strong lighting. Scanned images may appear blank or darkened.

## Note

- When saving scanned image data to a USB flash memory device or computer, either PDF or TIFF can be selected as the file format.  
(☞ “Setting file format” on page 29)
- Images output to a USB flash memory device are saved in following folder:  
For UB-5335: “UB-5335”  
For UB-5835: “UB-5835”  
For UB-5365: “UB-5365”  
For UB-5865: “UB-5865”
- Images output to a USB flash memory device or a computer are saved as following name:

MMDDHHxx.PDF (in the case of PDF file)



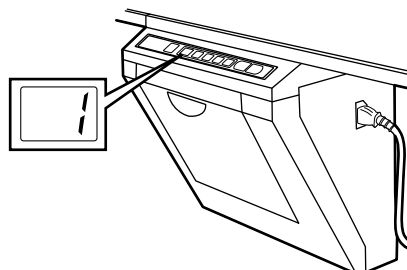
MMDDHHxx.TIF (in the case of TIFF file)

- For information on checked USB flash memory devices, refer to the following site.  
UB-5335 / UB-5835: [http://panasonic.net/pcc/support/eboard/ub-5335\\_info.html](http://panasonic.net/pcc/support/eboard/ub-5335_info.html)  
UB-5365 / UB-5865: [http://panasonic.net/pcc/support/eboard/ub-5365\\_info.html](http://panasonic.net/pcc/support/eboard/ub-5365_info.html)
- If the unit is turned on by pressing the Power Key on the control panel when the screen is not in the home position, the screen will automatically move to the home position and stop.
- To scan the back of the screen film, press the Advance Key to move to the front, then press the Copy Key to begin scanning.

## Making Copies

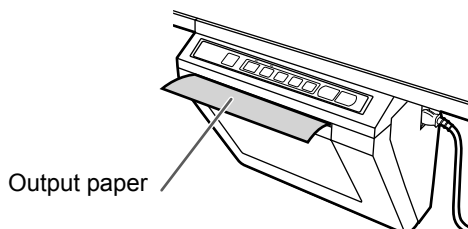
This section describes how to copy text and diagrams drawn on the screen.

### 1 Insert the power cord into the AC outlet and press the Power Key .



- If the screen is not in the home position, the screen will move to home position and stop.
- “ / ” will light on the Display Window to indicate that the unit is ready to copy.
- To make multiple copies, use the Multi-Copy/Stop Key and set the desired number of copies. (Up to 9 prints can be set.)

### 2 Press the Copy Key .



- Text and diagrams on the screen will be copied and copies emerge from the output port.
- The output port can hold up to 20 sheets of copy paper. (Note that exceeding the output port's capacity may result in paper jams.)
- Pressing the 2-Screen Copy Key will print the front and back of the screen film side by side on one page.

## Notice

- 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. (Doing so may result in loss in printing quality, in paper jams, or in damage to other devices.)
- Do not write on the output paper from this unit with the printed side down. The ink on the printed side will be copied on the surface underneath the output paper.

## Note

- In some cases, texts and diagrams in green or yellowish-green colors cannot be copied.

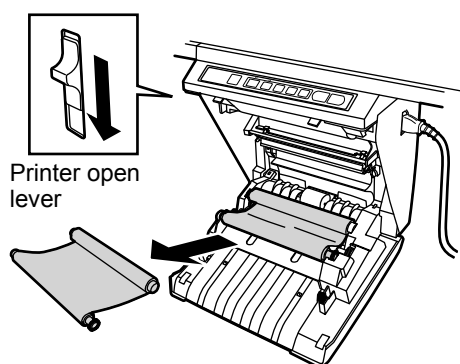
## Replacing the Thermal Transfer Film

The unit is capable of producing about 15 more copies when the Remaining Film Indicator begins to flash. The unit has run out of thermal transfer film and can no longer make copies when the Display Window flashes "L1 ⇔ L2". Separately available replacement film 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) as the replacement film. (Note that using another type of replacement film may result in a loss in printing quality or in 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.
- When replacing the thermal transfer film, clean the film gear installation part.

- 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 18.**

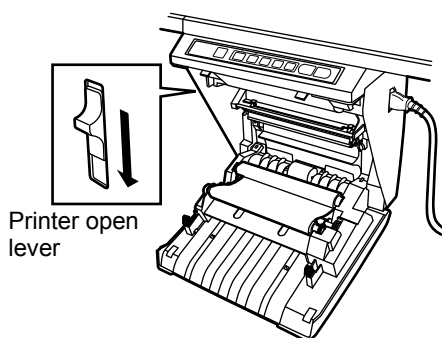
### Notice

- If "L1 ⇔ L2" 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.

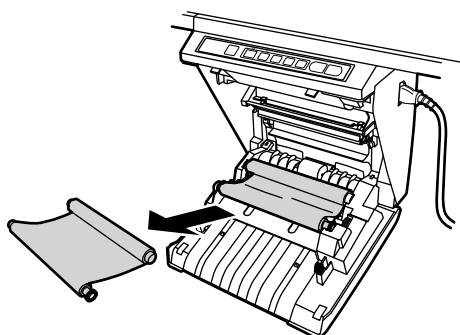
### Paper Jams

Remove paper jams by the following procedure when copy paper does not come out of the output port or when “ $\text{U} \rightleftharpoons \text{I}$ ” flashes on the Display Window.

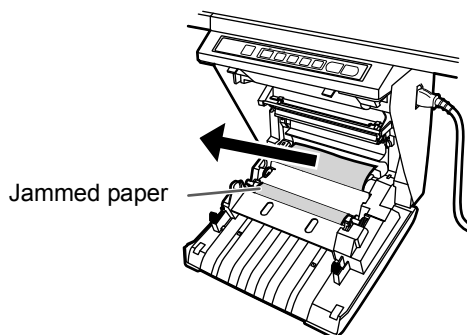
- 1 Push down the printer open lever to open the printer door.**



- 2 Remove the thermal transfer film.**



- 3 Remove the jammed paper.**




- 4 Install the thermal transfer film, and then close the printer door.**

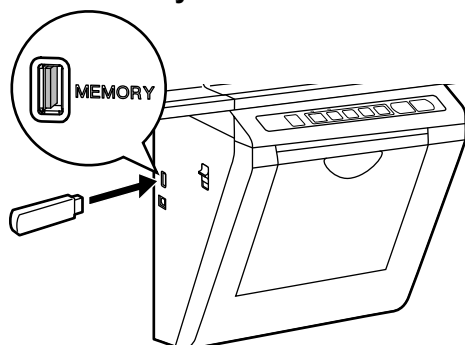
- Refer to steps 3 and 4 in the section of “Installing the Thermal Transfer Film” on page 18.
- “ $\text{U} \rightleftharpoons \text{I}$ ” flashing on the Display Window will go out and “ $\text{I}$ ” will flash.


#### Notice

- If “ $\text{U} \rightleftharpoons \text{I}$ ” flashes 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 “ $\text{U} \rightleftharpoons \text{I}$ ” does not go out after the foregoing procedure has been performed; this may indicate that the paper feeder is not functioning properly. Refer to page 19 to reset the copy paper. If you press the Copy Key a second time while “ $\text{I}$ ” is flashing on the Display Window, printing will start again.

## Storing images on a USB flash memory device

- 1 Insert the power cord into the AC outlet and press the Power Key .
- 2 Connect the USB flash memory device to USB Connector-A for USB Flash Memory Device.






- When the USB flash memory device is connected, “” will flash in the Display Window. When the USB flash memory device is recognized, the flashing will turn to a continuous indication.


### Note

- You cannot use a USB flash memory device that is equipped with certain features such as a security function or hub function.

- 3 Press the Copy Key .

- The unit starts scanning and “” will flash in the Display Window.  
“” will be displayed when scanning is finished, and then change to “”.

### Notice

- Do not remove the USB flash memory device until the “” switches from flashing to a continuous indication.

- 4 Remove the USB flash memory device from the unit.
- 5 Confirm that the USB flash memory device has correctly recorded the scanned data.
- 6 Erase the text and diagrams from the screen film.


## Scanning to a computer

### System Requirements

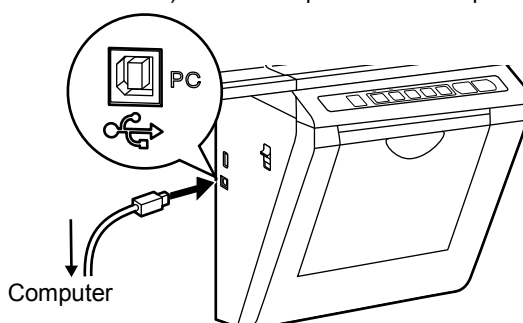
Computer	IBM® PC/AT or compatible machine
Interface	USB 2.0 / USB 1.1*1
OS	Windows® XP*2 (Service Pack 3 or later) Windows Vista®*3 Windows® 7*4 Windows® 8*5


- \*1 This unit does not function with Hi-Speed USB 2.0. Even if using a computer equipped with Hi-Speed USB 2.0, this unit functions with Full Speed USB 2.0. (This unit will not run at the rated speed of Hi-Speed USB 2.0.)
- \*2 Microsoft® Windows® XP operating system (hereafter Windows XP)
- \*3 Microsoft® Windows Vista® operating system (hereafter Windows Vista)
- \*4 Microsoft® Windows® 7 operating system (hereafter Windows 7)
- \*5 Microsoft® Windows® 8 operating system (hereafter Windows 8)

### Connecting to a computer

- 1 Insert the power cord into the AC outlet and press the Power Key .
- 2 Connect the electronic board to a computer using the USB cable.

- Electronic board: Plug the B connector (smaller connector) into the electronic board's USB port.  
Computer: Plug the A connector (larger connector) into a USB port on the computer.



- When the electronic board is connected to the computer, “” will flash in the Display Window. When the computer is recognized properly, the flashing will turn to a continuous indication.
- The computer recognizes the electronic board as a Removable Disk and the drive is displayed in the Windows Explorer window.

### Notice

- The use of a USB hub is not recommended. We cannot guarantee that the unit will work properly.
- Do not connect two or more Panasonic electronic boards to a computer. It may cause the computer operation to become unstable.

## ■ Scanning to a computer

### 1 Press the Copy Key .

- The unit starts scanning and “P” will flash in the Display Window. “C” will be displayed when scanning is finished, and then change to “P”.

### Notice

- Do not remove the USB cable until the scanned image file has been completed copied to the computer. The scanned image files will be deleted if the USB cable is removed.

### 2 Open the Removable Disk displayed on the computer screen, and click [Refresh] from the [View] in the Windows Explorer window.

- With Windows XP, the scanned image file will be displayed.
- With Windows Vista, Windows 7 and Windows 8, click on the [Refresh] button.

### 3 Copy the image file in the Removable Disk onto the computer's desktop or into a folder.

- It is possible to save a maximum of 10 scanned image files to the electronic board's removable disk.


If an 11th image file is scanned with the electronic board, the first image file will be deleted.

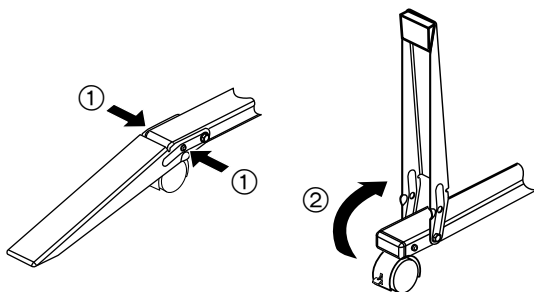
### 4 After opening and checking the scanned image files on the computer screen, erase the screen film surface using the eraser.

- Follow the procedure below for removing a USB cable connected to a computer.
  - 1 Right-click the icon for safely removing the hardware in the taskbar notification area in the bottom-right corner of the display, and then click the **Safely Remove** menu.
  - 2 When the list of devices is displayed, click on the device to be removed, click the [Stop] button, and then click [OK] on the displayed window.
  - 3 Close the window.
  - 4 Remove the USB cable connected to the computer from the electronic board.
- For information on saving files on a computer, refer to page 20.

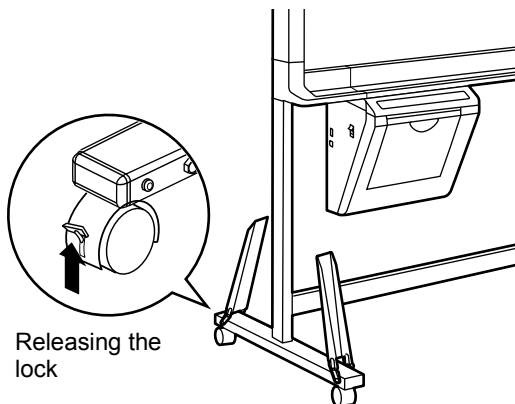
# Moving the Electronic Board

## For using the optional stand

- 1 Press the Power Key**  to turn off the power.
- 2 Disconnect the power cord.**
  - Make sure if there are any other devices connected to the unit. If so, disconnect them.
- 3 Release the lock ① and fold back the fall-prevention extension legs ② as follows:**



- 4 Release the caster locks.**

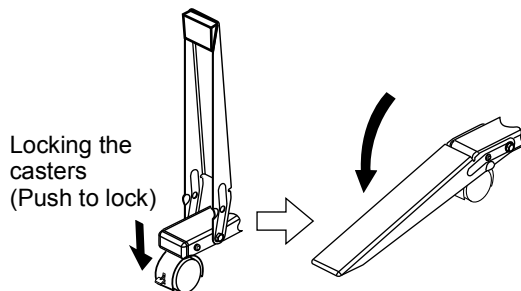


- 5 Move the electronic board with 2 people, avoid banging or shaking the board.**

### Notice

- Do not drag or step on the power cord.

- 6 Lock the casters and set the fall-prevention extension legs.**

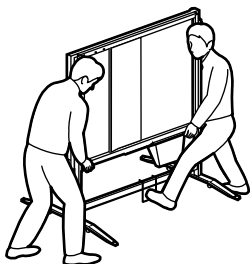


1

# Screen Height Adjustment

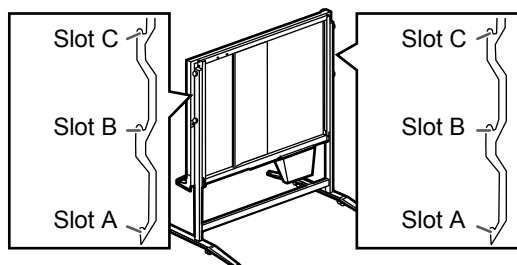
## CAUTION

Adjust the screen height with two persons after installation.

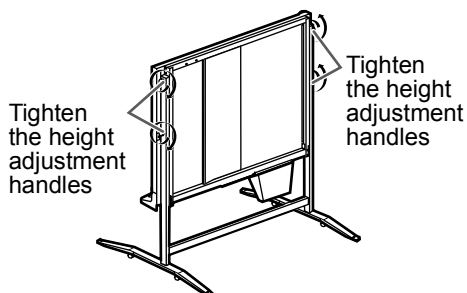


Do not take hold of the tray when adjusting the screen height.

Confirm both sides of the screen are hung in the same height slots.



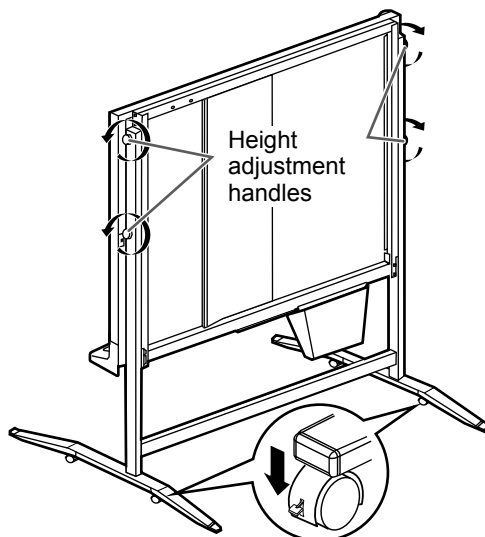
Be sure to tighten the height adjustment handles firmly after adjusting the level of the screen.



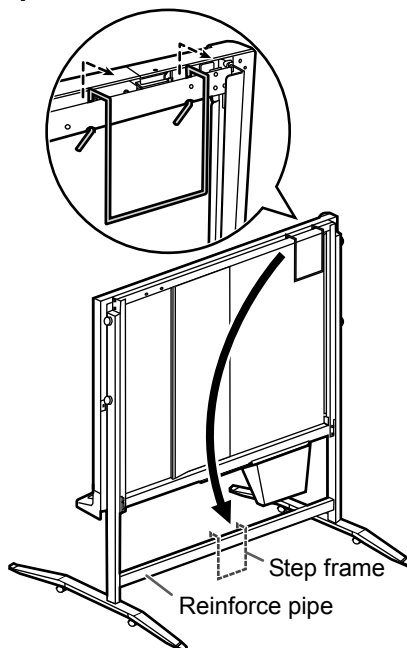
## For using the optional stand

The screen can be adjusted at 3 levels except for the lowest level. The lowest level of the board attachment frame is designed for installation of the screen, so the printer cannot be attached at this level. Adjust the level of the screen unit as follows.

- 1 Confirm that the casters are locked, and loosen the height adjustment handles.

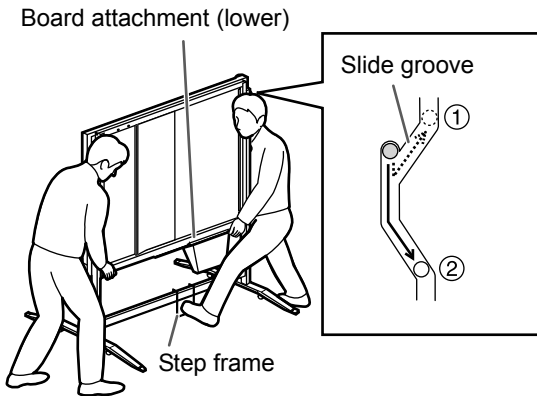


- 2 Hang the step frame on the reinforce pipe.



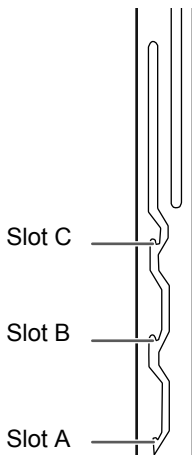
## 3 Lift the board attachment (lower) by stepping on the step frame.

- Slide along the slide groove.
  - ①: Reduce the height of the electronic board
  - ②: Increase the height of the electronic board

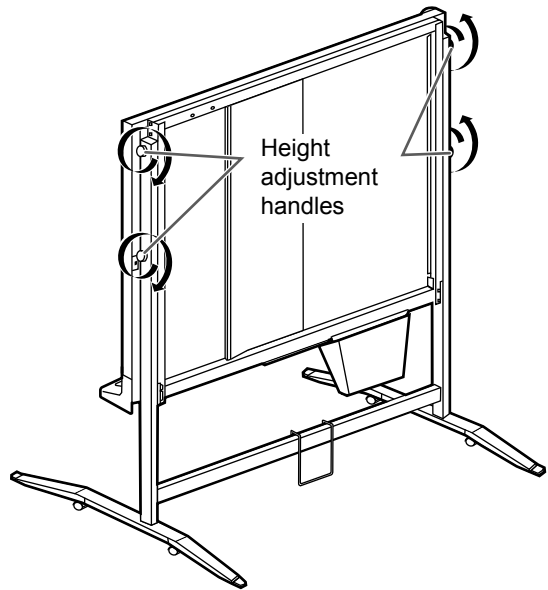


## 4 Hang the screen in the desired slots of the slide plates.

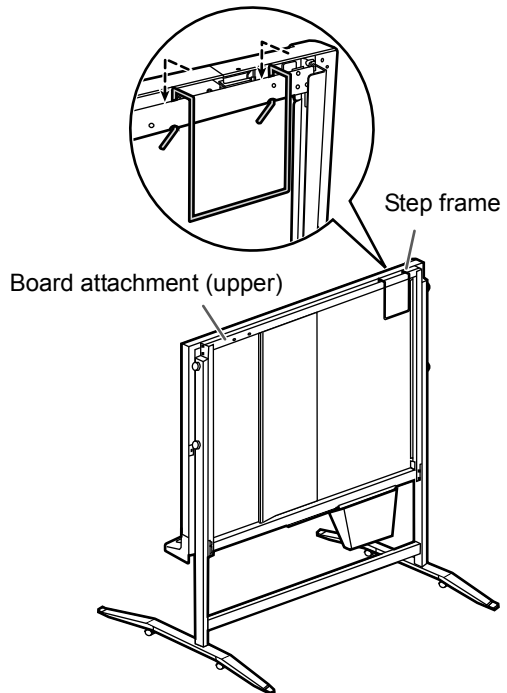
Slot	UB-5335 / UB-5835 Screen Height	UB-5365 / UB-5865 Screen Height
Slot A	2,000 mm (6 ft. 6 <sup>3</sup> / <sub>4</sub> in.)	2,025 mm (6 ft. 7 <sup>3</sup> / <sub>4</sub> in.)
Slot B	1,875 mm (6 ft. 1 <sup>13</sup> / <sub>16</sub> in.)	1,900 mm (6 ft. 2 <sup>13</sup> / <sub>16</sub> in.)
Slot C	1,750 mm (5 ft. 8 <sup>7</sup> / <sub>8</sub> in.)	1,775 mm (5 ft. 9 <sup>7</sup> / <sub>8</sub> in.)



## 5 Tighten the height adjustment handles.



## 6 Store the step frame by hanging it on the board attachment (upper).




# Setting the Unit

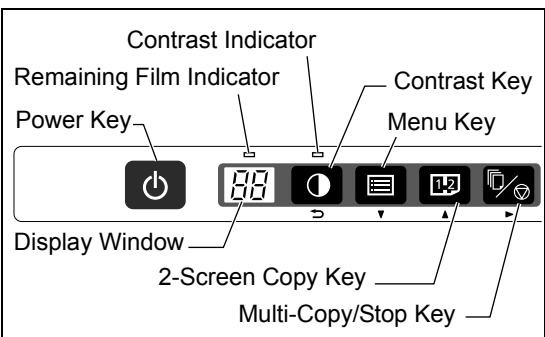
The various functions in this unit can be set on the control panel.

## Note


- In “Setting the Unit” section (pages 28–30), procedures are explained using symbols on the control panel, instead of key names.

## Basic settings






Before configuring settings, press  to turn on the power.



### 1 Press .

- The unit will switch to setting mode, and “” is displayed in the Display Window.

### 2 Press or to select the item to set.


Display Window	Items	Set values (bold values are defaults)
	Scanning time display	<b>Off</b> / On
	File format	<b>PDF</b> / TIFF
	Current time	Set the year, month, day, hour, minute
	Auto power-off setting	<b>The power turns off automatically</b> / Turn off the power using the Power Key
	Output size*	<b>Enlarged vertically</b> / Same size



\* Only UB-5835 and UB-5865 can be used.

## Note

- For information on setting the current time, refer to page 30.

### 3 Press to change the settings.

- Each time  is pressed the setting is switched, and the display on the Display Window changes.

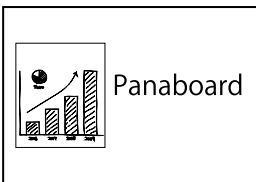
E.g. Do not display scanning time:   
Display scanning time: 

### 4 Press .

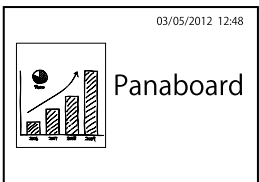
- The unit will return to ready mode.

## Setting for scanning time display

It is possible to select whether the time that an image is scanned is displayed on the image.




[Off]






[On]

### 1 Press .

- The unit will switch to setting mode, and “” is displayed in the Display Window.

### 2 Press to change the settings.

- Each time  is pressed the setting is switched, and the display on the Display Window changes.

Display Window	Settings
	Scanning time display: Off
	Scanning time display: On

### 3 Press .

- The unit will return to ready mode.

Setting file format

It is possible to select the file format for outputting images to a USB flash memory device or computer.

- 1 Press .
  - The unit will switch to setting mode, and "H0" is displayed in the Display Window.
- 2 Press or to select "b0".
- 3 Press to change the settings.
  - Each time is pressed the setting is switched, and the display on the Display Window changes.

Display Window	Settings
b0	File format: PDF
bo	File format: TIFF

- 4 Press .
  - The unit will return to ready mode.

Auto power-off setting

Set the operation to be performed when the power is turned off.

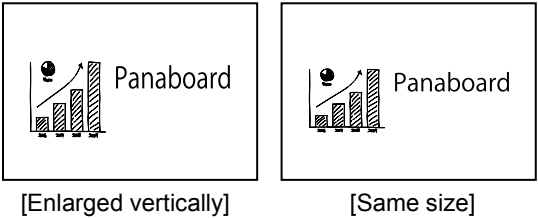
- 1 Press .
  - The unit will switch to setting mode, and "H0" is displayed in the Display Window.
- 2 Press or to select "d0".
- 3 Press to change the settings.
  - Each time is pressed the setting is switched, and the display on the Display Window changes.

Display Window	Settings
d0	If the electronic board is not used for about an hour, its power will be automatically turned off.
do	Turn off the power using the Power Key.

- 4 Press .
  - The unit will return to ready mode.

Setting output size

It is possible to set the output size of the scanned image to be enlarged vertically or be the same size as the original.



- 1 Press .
  - The unit will switch to setting mode, and "H0" is displayed in the Display Window.
- 2 Press or to select "E0".
- 3 Press to change the settings.
  - Each time is pressed the setting is switched, and the display on the Display Window changes.

Display Window	Settings
E0	Output size: Enlarged vertically
Eo	Output size: Same size

- 4 Press .
  - The unit will return to ready mode.

**Note**

- The output size can be set only with the UB-5835 and UB-5865. It is not displayed with the UB-5335 and UB-5365.
- When you copy the screen by pressing the 2-Screen Copy Key, the output size of scanned images is always copied as "Enlarged vertically".

### Setting the current time

It is possible to set the current time for the unit clock.

#### Note

- The time and date are set using the following procedure (for example, in the order month, day, year, hour, minute). The setting sequence will be different depending on country/area. The status of the Remaining Film and Contrast Indicators will show which item is being set.

#### 1 Press .

- The unit will switch to setting mode, and "12" is displayed in the Display Window.

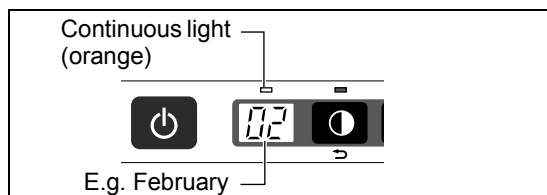
#### 2 Press or to select "1".

#### 3 Press .

- The "month" value is displayed in the Display Window.

#### 4 Press or to set the "month".

- When the "month" is set, the Remaining Film Indicator will be on.

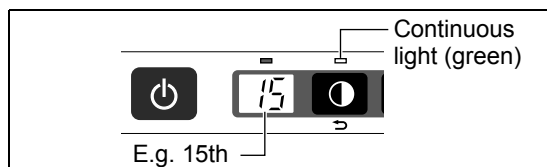


#### ➔ Press .

- The "day" value is displayed in the Display Window.

#### 5 Press or to set the "day".

- When the "day" is set, the Contrast Indicator will be on.

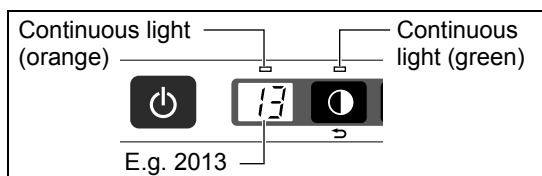


#### ➔ Press .

- The "year" value (last two digits of the Western calendar) is displayed in the Display Window.

#### 6 Press or to set the "year" (last two digits of the Western calendar).

- When the "year" is set, the Remaining Film Indicator and Contrast Indicator will be on.

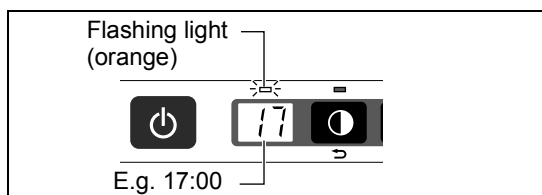


#### ➔ Press .

- The "hour" value is displayed in the Display Window.

#### 7 Press or to set the "hour".

- When the "hour" is set, the Remaining Film Indicator will flash.

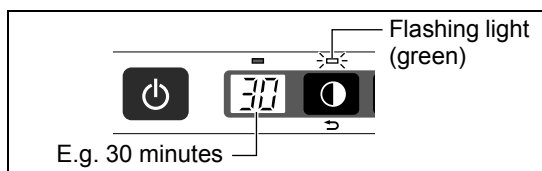


#### ➔ Press .

- The "minute" value is displayed in the Display Window.

#### 8 Press or to set the "minute".

- When the "minute" is set, the Contrast Indicator will flash.






#### ➔ Press .

- After the time has been set and the set time has been displayed in the setting sequence, the Display Window returns to showing "12".

#### 9 Press .

- The unit will return to ready mode.

#### Note

- Pressing  during current time setup (steps 4 to 8) will cancel the previous operations and return the unit to the time prior to setup.
- If you press and hold  or , the number will change in increments of 10.

# Daily Care and Maintenance

Always 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. Use a soft brush or similar tool to remove dust caught in the tray.

### Notice

- Use a neutral kitchen cleaner diluted with water for hard-to-clean stains. After using kitchen cleaner, wipe off the cleaner completely with water.
- If a commercially available oil-based marker is accidentally used on the board, achieve adequate ventilation, then wipe it off with a small amount of ethyl alcohol.
- Do not use thinner, benzine or cleaners containing abrasives or surfactants, as this may result in discoloration or difficulty of erasing.
- Do not wipe the screen film with a dry cloth. (Doing so can generate a static charge and cause the unit to malfunction.)

## Caring for the eraser

When the erasing surface of the eraser has become dirty, and it is hard to remove the dirt, hold down the sheet under the top sheet with your finger, and peel off the dirty sheet (white or gray sheet) by pulling it in the direction of the arrow.



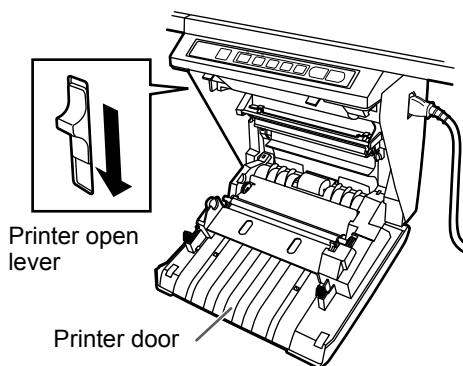
### Notice

- 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 thermal printer head, platen roller and pick-up roller

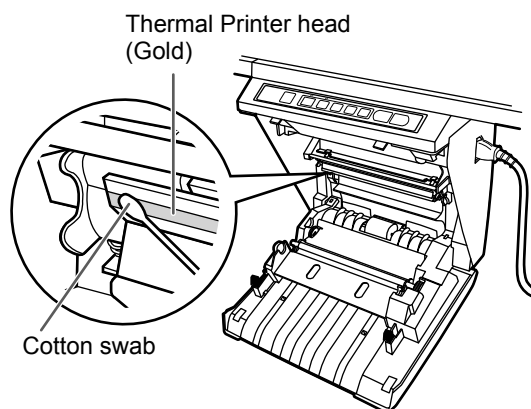
If black streaks appear on the copy, clean the thermal printer head and the platen roller. If paper jams occur frequently, clean the pick-up roller.

- 1 Remove the copy paper, and push down the printer open lever to open the printer door.**



- 2 Clean the Thermal Printer Head**

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



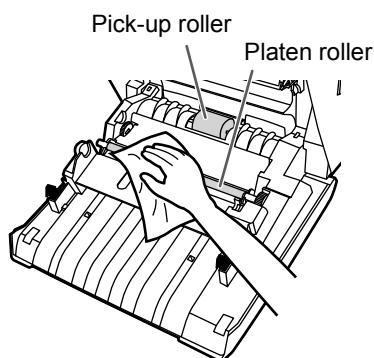
### Notice

- Never touch the thermal printer head directly with your hands. (Doing so may disable copying.)

### 3 Clean the Platen Roller and the Pick-up Roller

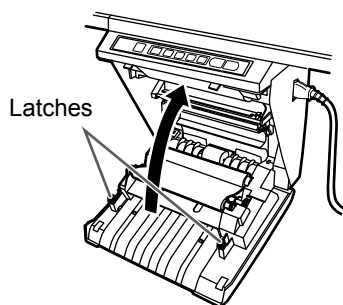
**Remove the thermal transfer film and carefully wipe any dirt or stains off the platen roller and pick-up roller.**

- For details on removing the thermal transfer film, see page 21.
- 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, close the printer door, and load the copy paper.

- For details on installing the thermal transfer film, see page 18.
- Close the printer door firmly until the latches on both sides of the printer make a clicking sound.



#### Notice

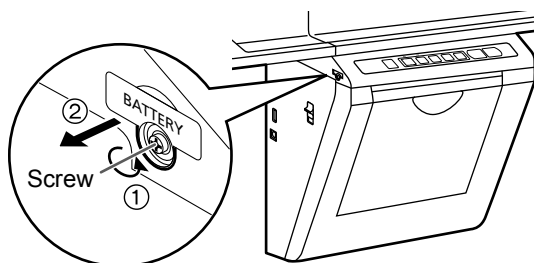
- If "L" ↔ "R" flashes after closing the printer door, make sure that the thermal transfer film has been installed properly and tightened.
- The printer door should be closed to make copies properly. Confirm both latches are locked.

### Replacing the Battery for the unit clock

When the clock battery has been drained, the time setup menu is displayed each time the unit's power is turned on.

Replace the battery as follows and set the current time (see page 30).

#### 1 Loosen the screw attached to the left side of the Control Panel ①, then remove the battery holder ②.

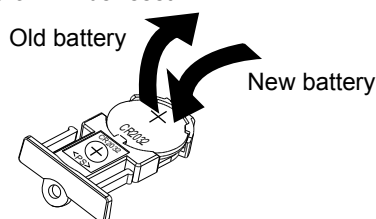


#### Notice

- Do not loosen any other screws.

#### 2 Remove the old battery and install the new one with the positive (+) terminal upward.

- Always use "CR2032" batteries and be sure that the battery is inserted as indicated on the battery holder. If the direction is wrong, the time which was set when the power was turned off will be reset.



#### 3 Set the battery holder with the battery side upward and retighten the screw in step 1.

#### 4 Set the current time. (see page 30)

- If a 2-digit number appears in the Display Window, refer to steps 4 and on in the section of "Setting the current time" to set the current time.

#### Notice

- Dispose of expired battery quickly, by covering the terminals in tape and following the disposal regulations in your country/area.

# Troubleshooting

When experiencing problems, please refer to the table below for possible solutions. If the problem persists, contact your dealer.

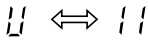

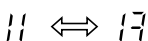
Symptom	Possible cause and solution	See page
The Display Window does not light up even when the Power Key is pressed.	Confirm that the power plug is securely plugged in. (If the Display Window still does not light up, remove the plug, wait 2 seconds or more, then insert it again.)	–
It is difficult to erase text/diagrams written on the screen film.	<ul style="list-style-type: none"> <li>Wipe the screen film with a water dampened-cloth that has been thoroughly wrung. If it does not erase easily with water, wipe it off with a small amount of ethyl alcohol.</li> <li>Write letters and lines slowly. Letters and lines written fast cannot be erased as easily.</li> <li>Erase text/diagrams after the ink has dried completely.</li> <li>Do not use cleaners that contain a surface active agent.</li> </ul>	–
Some text or certain parts of a diagram cannot be scanned.	The letter is written outside the scannable area. → Write the letters inside the scannable area.	9
Copied copy paper will not come out.	The unit is out of copy paper or thermal transfer film. (The Display Window flashes “ $\frac{1}{1}$ ⇔ $\frac{1}{1}$ ” or “ $\frac{1}{1}$ ⇔ $\frac{1}{2}$ ”.) → Insert copy paper or replace the thermal transfer film. Copying is resumed when the Copy Key is pressed.	19 21
	The printer door is open. (The Display Window flashes “ $\frac{1}{1}$ ⇔ $\frac{1}{4}$ ”.) → Close the printer door firmly until a click is heard. Copying is resumed when the Copy Key is pressed.	18
	The paper cover is open. → Close the paper cover firmly until a click is heard.	19
	Paper is jammed in the printer. (The Display Window flashes “ $\frac{1}{1}$ ⇔ $\frac{1}{3}$ ”.) → Open the printer door and remove the jammed paper. Copying is resumed when the Copy Key is pressed.	22
	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.	31
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.	18
Black streaks or blank (unprinted) spots appear on the copy (copy paper is dirty).	The thermal printer head or platen roller is dirty. → Open the printer door and clean any dirt off the thermal printer head and platen roller.	31
	The thermal transfer film is wrinkled because it was set in place without removing excess slack. → Remove the excess slack, then reattach it.	18
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 unit or block the light.	–
The scanned image cannot be printed with a built-in printer.	A USB flash memory device is connected. → Remove the USB flash memory device.	20
	A computer is connected. → Remove the computer connection.	

## Troubleshooting

Symptom	Possible cause and solution	See page
The screen does not advance when the Copy Key or Advance Key is pressed.	Static electricity was generated when the screen film was wiped. → Unplug the unit, then manually move the screen film slowly to the left.	–
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).	21
The USB flash memory device is not recognized.	USB flash memory devices equipped with features such as a security function or hub function cannot be used with this unit. → For information on conditions that make USB flash memory devices incompatible with the unit and a list of checked USB flash memory devices, refer to the following site. UB-5335 / UB-5835: <a href="http://panasonic.net/pcc/support/eboard/ub-5335_info.html">http://panasonic.net/pcc/support/eboard/ub-5335_info.html</a> UB-5365 / UB-5865: <a href="http://panasonic.net/pcc/support/eboard/ub-5365_info.html">http://panasonic.net/pcc/support/eboard/ub-5365_info.html</a>	23
	The USB flash memory device is connected via a USB hub. → Do not connect via a USB hub.	–
It takes a long time for the unit to recognize the USB flash memory device.	The USB flash memory device has not been used since it was formatted using FAT32. → Once a file has been written, subsequent operations will be performed much more quickly.	–
The computer does not recognize this unit.	Confirm that the USB cable is properly connected on both sides or put the unit into standby mode.	23
	This unit is connected via a USB hub. → Do not connect via a USB hub.	–
	The USB cable connected to the unit is damaged. → Replace with another USB cable, and check the connections.	23
The image file is not displayed after copying to a computer.	With Windows XP, open the Removable Disk displayed on the computer screen, and click [Refresh] from the [View] in the Windows Explorer window. With Windows Vista, Windows 7 and Windows 8, click on the [Refresh] button.	24

## Error Codes

If the following symbols flash on the Display Window, carry out the respective solution provided in the table below.

Error Code	Possible cause and solution	See page
	Out of paper → Load copy paper.	19
	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.	18 21
	Paper jam → Open the printer door and remove the jammed paper.	22

Error Code	Possible cause and solution	See page
$U \rightleftharpoons 14$	The printer door is not closed securely. → Close the printer door securely.	18
$U \rightleftharpoons 21$	Unsupported USB flash memory device is connected. → You cannot use a USB flash memory device that is equipped with certain features such as a security function or hub function.	—
$U \rightleftharpoons 21$	The USB flash memory device connected has been formatted using the unsupported FAT16 format. → Format the USB flash memory device using FAT32 format on a computer. All data on the USB flash memory device is lost when the USB flash memory device is formatted.	—
$U \rightleftharpoons 22$	Write-protection is set on the USB flash memory device. → Cancel the write-protection.	—
$U \rightleftharpoons 22$	The following folders for storing images on the USB flash memory device are set to “read only”: UB-5335: “UB-5335”, UB-5835: “UB-5835”, UB-5365: “UB-5365”, UB-5865: “UB-5865” → Change folder property to writable using a computer.	—
$U \rightleftharpoons 23$	The maximum value allowed for a sequential number (99) of the file name has been reached. → Transfer the image files in the following folder on the USB flash memory device to another location.* UB-5335: “UB-5335”, UB-5835: “UB-5835”, UB-5365: “UB-5365”, UB-5865: “UB-5865”	20
$U \rightleftharpoons 24$	There is no available space in the USB flash memory device. → Increase the available space using a computer.*	—
$U \rightleftharpoons 24$	The available space in the USB flash memory device became full while scanning. → Increase the available space using a computer, then scan again.*	—
$U \rightleftharpoons 25$	USB flash memory device writing error occurred. → Check whether the USB flash memory device is written normally using a computer.*	—
$U \rightleftharpoons 26$	USB flash memory device was removed while scanning. → Connect the USB flash memory device, then scan again.*	—
$U \rightleftharpoons 26$	The USB cable connecting the computer and the unit was removed while scanning. → Connect the USB cable for computer securely, then scan again.*	23
$U \rightleftharpoons 31$	The screen will not move. → Remove any chart paper attached to the screen and slowly move the screen by hand.*	—
$U \rightleftharpoons 32$	The image sensor or screen is in strong sunlight or strong lighting. → Change the direction of the unit or block the light.*	—
$U \rightleftharpoons 33$	There is writing outside of the copying area on the screen film, or the area is dirty. → After advancing, manually move the screen film 20 cm (7 7/8 in.) to the right from the position at which it stopped, then erase or clean off the writing on the entire screen shown. (Both the front and back)*	9

- If any error indicator from “F1” to “F9” appears, contact the dealer from which the unit was purchased.
- \* If “ $U \rightleftharpoons 23$ ” to “ $U \rightleftharpoons 26$ ” or “ $U \rightleftharpoons 31$ ” to “ $U \rightleftharpoons 33$ ” is displayed, press the Contrast Key, release the error and then take the necessary remedial action.

# Specifications

	Model No.	UB-5335	UB-5835	UB-5365	UB-5865
General	Power supply	AC 100 V–120 V/AC 220 V–240 V, 50 Hz/60 Hz			
	Power consumption	1.4 A/0.7 A			
	External dimensions (Height×Width× Depth, without stand)	1,334 mm× 1,372 mm× 212 mm (4 ft. 4 1/2 in. ×4 ft. 6 in. ×8 11/32 in.)	1,334 mm× 1,735 mm× 212 mm (4 ft. 4 1/2 in. ×5 ft. 8 5/16 in. ×8 11/32 in.)	1,372 mm× 1,465 mm× 212 mm (4 ft. 6 1/32 in. ×4 ft. 9 11/16 in. ×8 11/32 in.)	1,372 mm× 1,828 mm× 212 mm (4 ft. 6 1/32 in. ×5 ft. 11 31/32 in. ×8 11/32 in.)
	Mass (without stand/ with board attachment)	25 kg (55.1 lbs.)	27 kg (59.5 lbs.)	29 kg (63.9 lbs.)	32 kg (70.5 lbs.)
	Ambient operating conditions	Temperature: 10 °C – 35 °C (50 °F – 95 °F) Humidity: 30 % – 80 %			
	Battery for clock	Lithium coin battery (CR2032) × 1			
	Writing implements	Dry erase felt-tipped markers (black) (Included)			
Input Block	Panel dimensions (Height×Width)	900 mm× 1,262 mm (2 ft. 11 7/16 in. ×4 ft. 1 11/16 in.)	900 mm× 1,625 mm (2 ft. 11 7/16 in. ×5 ft. 3 31/32 in.)	900 mm× 1,262 mm (2 ft. 11 7/16 in. ×4 ft. 1 11/16 in.)	900 mm× 1,625 mm (2 ft. 11 7/16 in. ×5 ft. 3 31/32 in.)
	Panel surfaces	2			
	Panel advance system	Endless scroll type			
	Copying area (Height×Width)	850 mm× 1,250 mm (2 ft. 9 15/32 in. ×4 ft. 1 7/32 in.)	850 mm× 1,613 mm (2 ft. 9 15/32 in. ×5 ft. 3 1/2 in.)	850 mm× 1,250 mm (2 ft. 9 15/32 in. ×4 ft. 1 7/32 in.)	850 mm× 1,613 mm (2 ft. 9 15/32 in. ×5 ft. 3 1/2 in.)
	Scanning system	Contact image sensor array method			
Printer Output Block	Printing system	Fusion thermal transfer type			
	Copy paper	Standard or recycled paper			
	Copy paper size	A4/Letter*			
	Copy density	8 dots/mm			
	Copy color	Black			
	Contrast adjustment	Two levels: Normal/Dark			
	2-screen compressed copying	Yes			
	Time required for copying	20 s/sheet			
	Continuous copies	1 to 9 sheets			
	Paper empty indication	Yes			

	Model No.	UB-5335	UB-5835	UB-5365	UB-5865
USB Flash Memory Device Output Block	Interface	Full Speed USB 2.0			
	Support format	FAT (FAT16)/FAT32 format (Maximum capacity: 32 GB)			
	Store file format	PDF/TIFF			
PC Output Block	Interface	Full Speed USB 2.0			
	Supported operating systems	Windows® XP (Service Pack 3 or later) Windows Vista® Windows® 7 Windows® 8			
	Store file format	PDF/TIFF			

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

## Separately Available Items

Optional Device	Stand	UE-608005
Consumables	Replacement film	UG-6001 (set of 2 rolls [50 m (164 ft.)])
	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)

- To purchase separately available items, contact your dealer.
- Purchase commercially available batteries (CR2032).

## Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you 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.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

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

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



### Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

## Information on Disposal for India



For the purpose of recycling to facilitate effective utilization of resources, please return this product to a nearby authorized collection center, registered dismantler or recycler, or Panasonic service center when disposing of this product.

Please see the Panasonic website for further information on collection centers, etc.

<http://www.panasonic.co.in/wps/portal/home>

### Panasonic Corporation of North America

One Panasonic Way, Secaucus, New Jersey 07094

### Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario, L4W 2T3

### Panasonic Marketing Europe GmbH

Hagenauer Strasse 43, 65203 Wiesbaden, Germany

For information of Compliance with EU relevant Regulatory Directives, Contact to Authorised Representative:

Panasonic Testing Centre

Panasonic Marketing Europe GmbH

Winsbergring 15, 22525 Hamburg, Germany



(For EU only)

### Panasonic Corporation

Web Site: <http://www.panasonic.net/>