



RICOH Interactive Whiteboard D8400

Operating Instructions

Table of Contents

Disclaimer	2
1. Using the Remote control.....	3
Installing the batteries into the remote control	4
Removing the batteries from the remote control	4
Remote control usage tips	5
2. Connection	6
Connecting audio/video signals.....	6
Connecting the VGA input.....	6
Connecting the digital inputs	7
Connecting external speakers	8
Connecting multiple displays.....	9
3. Using the touch screen.....	10
Important instructions for using the touch screen	10
4. The On-Screen Display menu	12
On-Screen Display menu overview.....	12
Operations in the On-Screen Display menu	13
Picture menu	15
Sound menu	16
Screen menu.....	17
Setting menu.....	20
5. Product information.....	22
Specifications	22
List of Video Input Signals Supported by the Machine	24
List of PAP input signal combination supported by the Machine.....	26
Output signals	27
6. Troubleshooting.....	28

Disclaimer

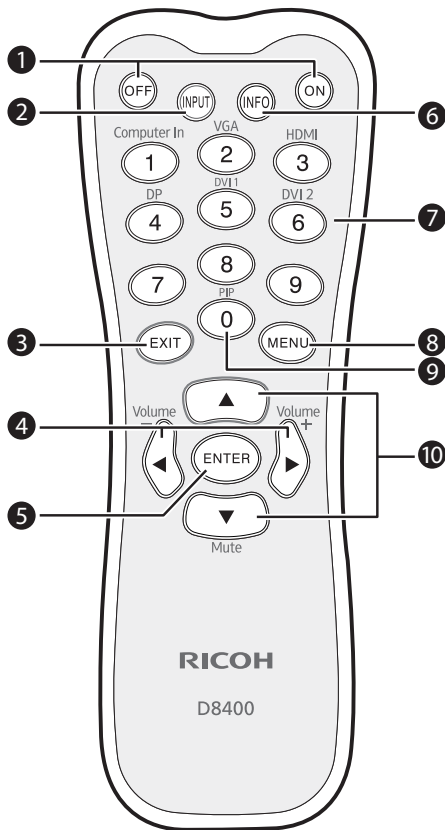
To the maximum extent permitted by applicable laws, in no event will the manufacturer be liable for any damages whatsoever arising out of failures of this machine, losses of the registered data, or the use of this product and operation manuals provided with it.

Make sure that you always copy or have backups of the data registered in this machine. Documents or data might be erased due to your operational errors or malfunctions of the machine.

1. Using the Remote control

Important

- Do not put the remote control in the direct heat, humidity, and avoid fire.
- Do not drop the remote control, as doing so may cause the remote control to malfunction.
- Confirm there is no object between the remote control and the remote control sensor of the product.
- When the remote control will not be used for an extended period, remove the batteries.



1 [ON]/[OFF]

Turns the machine on or off.

2 [INPUT]

Selects an input source.

3 [EXIT]

Returns to the previous menu or closes the On-Screen Display menu when the On-Screen Display menu is on.

4 [◀, Volume-]/[▶, Volume+]

- Scrolls through settings and options in the On-Screen Display menu.
- Turns down/up the volume.

5 [ENTER]

Confirms your selection or save changes.

6 [INFO]

Shows the current input source and resolution.

7 Input source buttons

Numeric buttons perform as input source buttons.

Note:

The **[Computer In]** is only available if the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display.

8 [MENU]

Opens or closes the On-Screen Display menu.

9 [PIP]

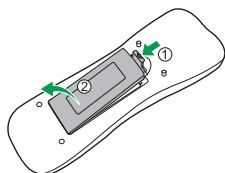
Turn on or off the PIP function.

10 [▲]/[▼, Mute]

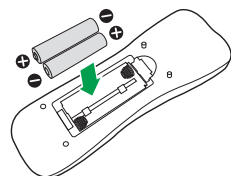
- Scrolls through settings and options in the On-Screen Display menu when the On-Screen Display menu is on.
- Turns on or off the mute function. Used to temporarily disable audio input on the machine.

Installing the batteries into the remote control

- When batteries fail to function, replace them immediately.
- There may be local restrictions on the disposal or recycling of batteries. Consult your local regulations or waste disposal provider.



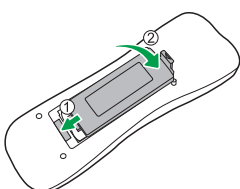
1. Open the remote control battery cover.



2. Insert the supplied batteries ensuring that the positive and negative marked battery terminals match the (+) and (-) marks in the battery compartment.

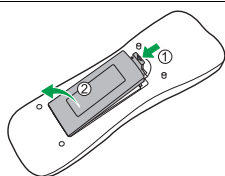
Note:

You should replace the supplied batteries as soon as possible.

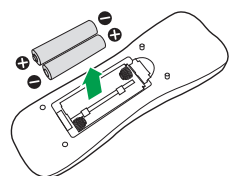


3. Refit the battery cover.

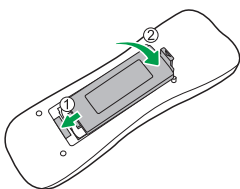
Removing the batteries from the remote control



1. Open the remote control battery cover.



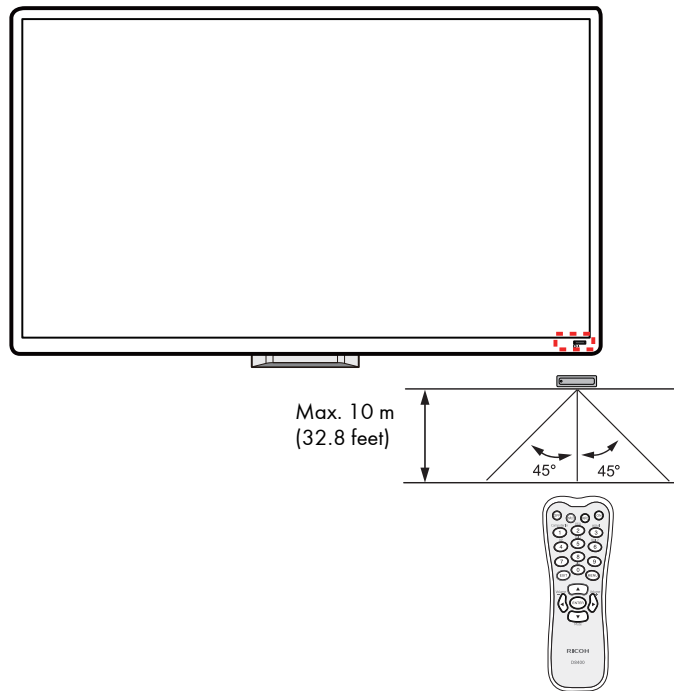
2. Remove the batteries.



3. Refit the battery cover.
-

Remote control usage tips

- Point and aim the top front of the remote control directly at the display's remote control sensor window when you press the buttons.
- Do not let the remote control become wet or place it in humid environments (like bathrooms).
- If the display's remote control sensor window is exposed to direct sunlight or strong light, the remote control may not operate properly. In this situation, change the light source, readjust the angle of the display or operate the remote control from a location closer to display's remote control sensor window.



2. Connection

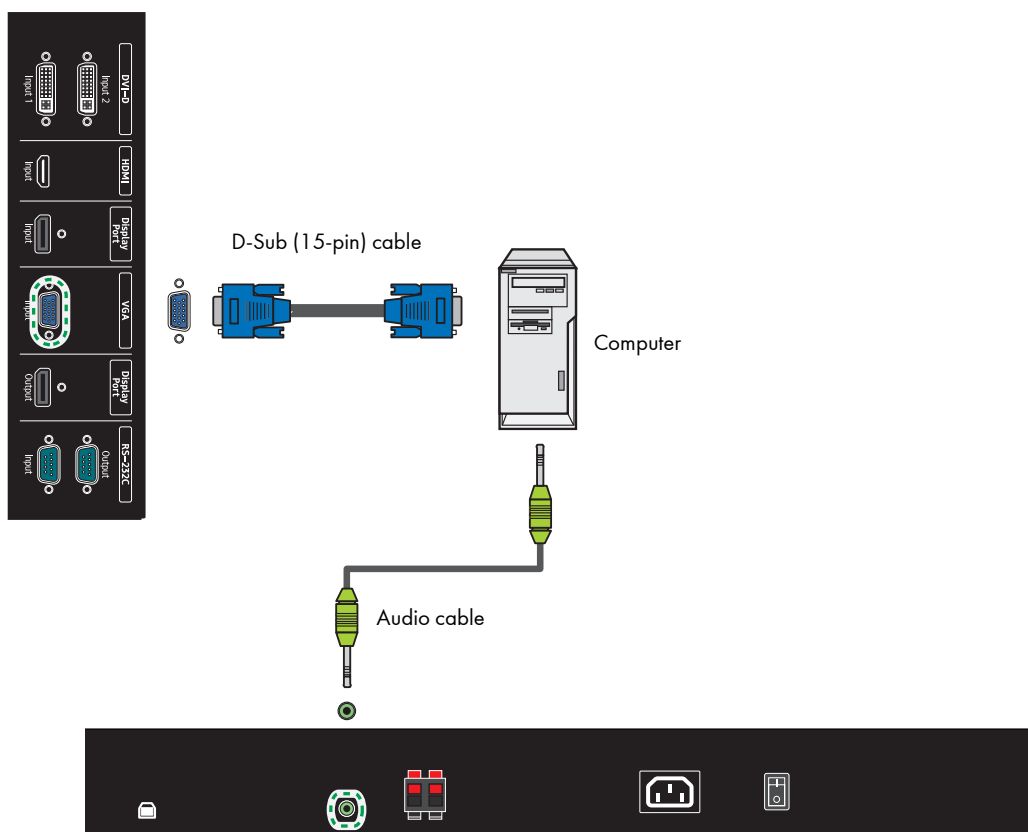
Connecting audio/video signals

Pay attention to the following notes when you connect cables:

- Please turn off all devices.
- Familiarize yourself with the audio/video ports on the machine and the devices you want to use. Be aware that incorrect connections may adversely affect picture quality or result in the picture not being displayed.
- Do not remove cables from the ports by pulling the cable itself. Always grasp and pull the connectors at the end of the cable.
- Ensure that all cables are fully inserted and firmly seated.

Connecting the VGA input

1. Connect the **VGA Input** jack on the display to the VGA output jack on a computer using a D-Sub (15-pin) cable.
2. Connect the computer's audio output jack to the **Audio Input (VGA/DVI)** jack on the machine using a suitable audio cable.
3. To view images from this input, press the **VGA** button on the remote control. To select an appropriate audio source, see ["Audio Source" on page 16](#) for details.

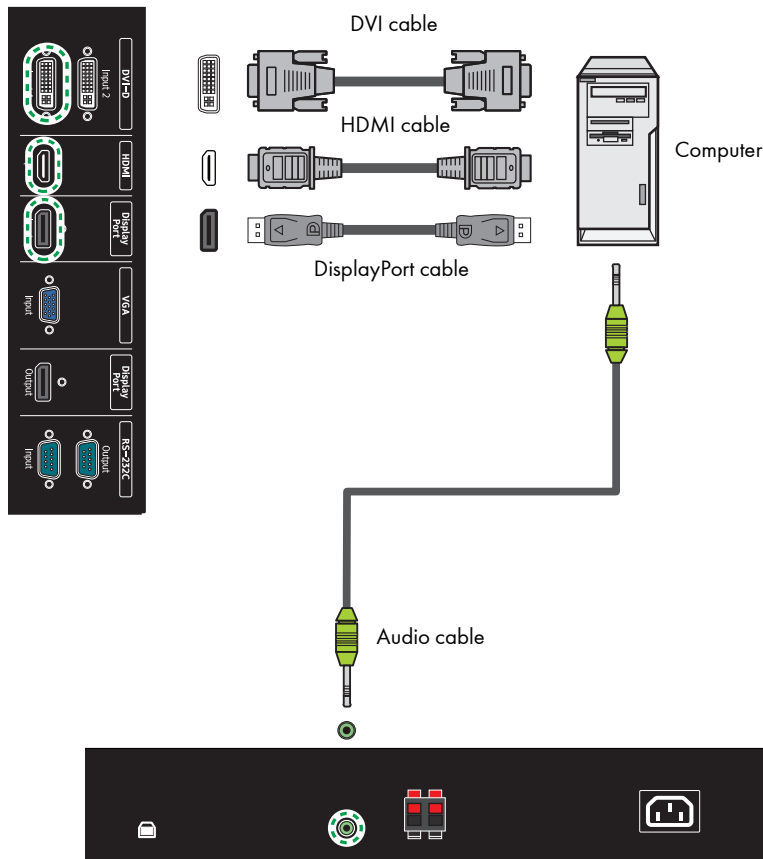


Note

The audio cable is not supplied and should be purchased separately.

Connecting the digital inputs

1. Connect the HDMI output jack of a computer or A/V device (such as a VCR or DVD player) to the **HDMI Input** jack on the machine using an HDMI cable. If the device has a DisplayPort output jack, connect it to the **DisplayPort Input** jack on the machine using a DisplayPort cable.
If the device has a DVI-D output jack, connect it to the **DVI-D Input 1** or **DVI-D Input 2** jack on the machine using a DVI cable.
2. If the DVI-D connection is used, connect the audio output jack of the device to the **Audio Input (VGA/DVI)** jack on the machine using a suitable audio cable. This audio connection is not required for the HDMI or DisplayPort connection.
3. To view video image from this input, press the **HDMI**, **DP**, **DVI 1** or **DVI 2** button on the remote control. To select an appropriate audio source, see ["Audio Source" on page 16](#) for details.

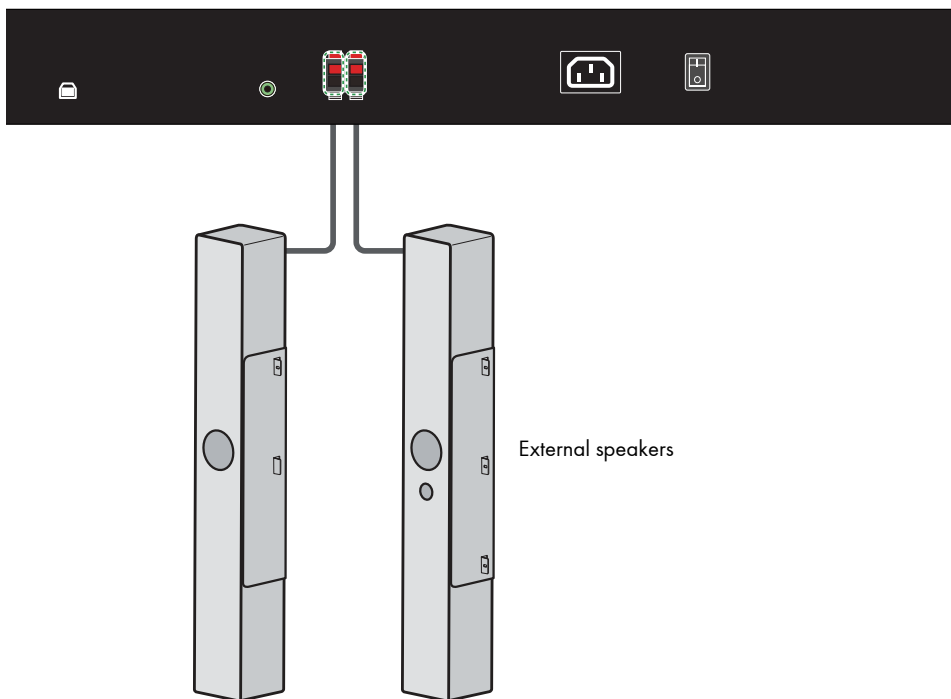


Note

The cables are not supplied and should be purchased separately.

Connecting external speakers

The built-in amplifier on the machine allows you to output audio signals through external speakers. Connect external speakers to the **Speaker R(8Ω)12W/Speaker L(8Ω)12W** jacks on the machine.



Note

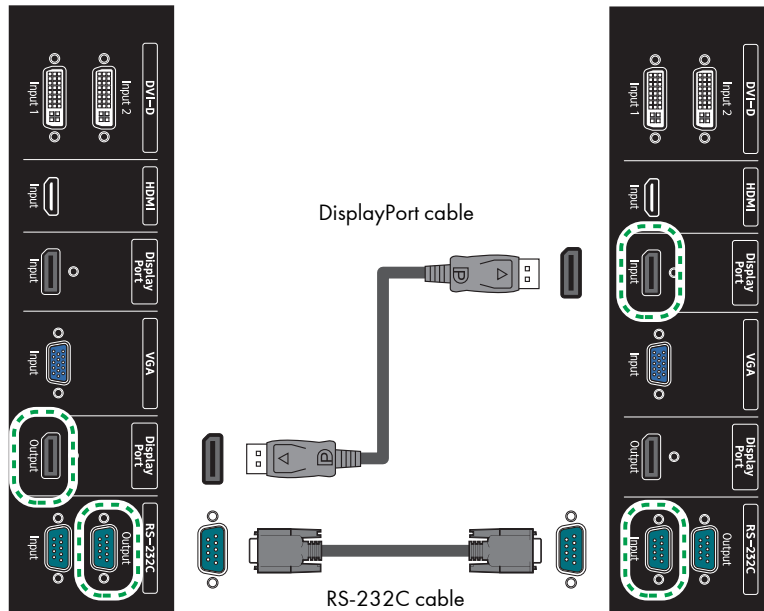
- When connecting external speakers, use speakers that support 8Ω output.
- You can use the remote control or the control panel on the machine to adjust the volume.
- When using external speakers, set **Speaker** in the **Sound** menu to **External**.

Connecting multiple displays

You can connect multiple displays serially (daisy chain) to a computer for management. The number of displays you can connect serially depends on the resolution of the input signal you use.

The first display

Additional display



Note

- The RS-232C cable and DisplayPort cable are not supplied and should be purchased separately.
- This RS-232C daisy chain application requires an RS-232C port equipped computer.
- Use RS-232C serial cross cables for daisy chain application.
- The video signals input to the **DisplayPort Input** jack are output from the **DisplayPort Output** jack.

3. Using the touch screen

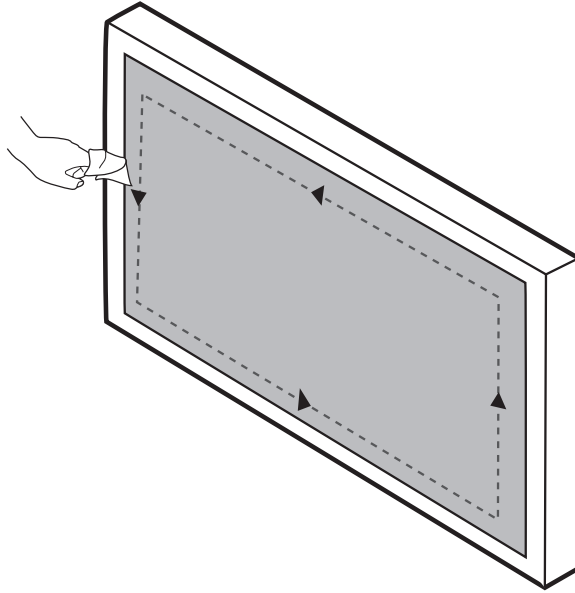
When the **USB Type-B For Touch** jack of the machine is connected to the USB port of a computer using the supplied USB cable, you can operate the Windows PC or Mac, just as you would with a mouse, using touch operations with your finger.

For supported operating systems, see "[Specifications](#)" on [page 22](#).

Important instructions for using the touch screen

- To use the touch operations, connect the USB port (**USB Type-B For Touch**) on the lower back side of the machine to the USB port of the computer using the supplied USB cable.
- Depending on the operating system, multi-point touch operations may also be supported in addition to single-point touch operations.
- For details on multi-point touch operations, see the Windows PC's operating manual and other similar documents.
- When connecting a Mac to the machine, settings may need to be made using an exclusive application. Download the exclusive application from the Ricoh website on the Internet.
<http://www.ricoh.com/>
- Touch operation behavior may differ depending on the application. See the application's operating manual.
- When a controller designed compliant with OPS (Open Pluggable Specification) standard is connected to the machine, the USB port (**USB Type-B For Touch**) on the lower back side of the machine is disabled. The touch screen functions are controlled by the connected controller. When using the touch screen function on a PC connected to the **USB Type-B For Touch** port on the lower back side of the machine while a controller is connected, set the **Touch Control Setting** in the **Setting** menu to **USB**.
For details on touch operations when a controller is connected, see the controller's operating manual.
- When the machine and another monitor are connected to the Windows PC at the same time, the touch entry signals may become mixed up. (For example, the cursor on the other monitor may move when the touch screen of the machine is touched.)
 - With the machine connected to the Windows PC, set up "Tablet PC Settings" for Windows.
- Please clean the frame when there is sign of malfunction on the touch screen.
 - Before you clean the screen, make sure the machine is turned off, and unplug the power cord.
 - Remove dust or dirt from the screen and the infrared plastic filter periodically. It is suggested using a small amount of alcohol to clean the infrared plastic filter.
 - To avoid damage to the screen, never use any type of abrasive materials to wipe the screen.
 - Use a neutral detergent to clean the touch screen. Avoid using detergents with erosive substance, such as banana oil or ammonia.

- Moisten a clean soft, lint-free cloth with a neutral detergent and then clean the touch screen.



- Do not spray a detergent on the screen surface or the body directly. It may result in a short circuit to the touch screen.
- Keep the touch screen out of direct sunlight or spotlights.

Windows is a registered trademark of Microsoft Corporation in the United States and other countries.
Mac OS is a trademark or registered trademark of Apple Inc., in the United States and other countries.

4. The On-Screen Display menu

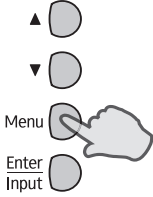
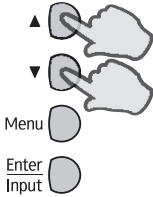
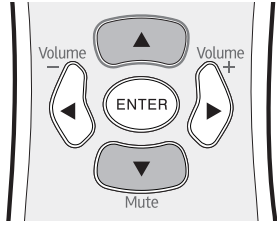
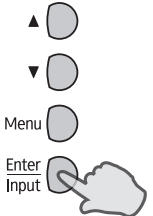
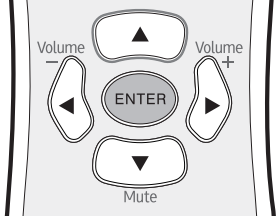
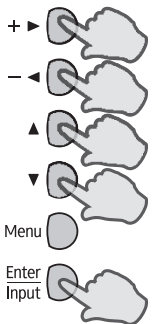
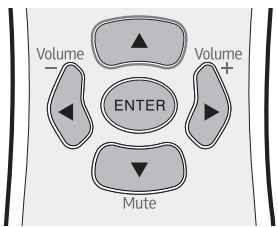
On-Screen Display menu overview

Menu name	Options/functions	See page
Picture	• Picture Mode • Backlight • Contrast • Brightness • Chroma • Phase • Sharpness • Color Temp. • Reset	15
Sound	• Treble • Bass • Balance • Volume • Mute • Speaker • Audio Source • Reset	16
Screen	• PAP Setting • Aspect • Adjust Screen • Touch Feature	17
Setting	• Language • Power Save • Control Setting • Touch Control Setting • Set Monitor ID • Advanced • Information • All Reset	20

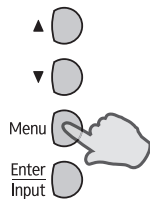
Note

- Some options are only available when a certain input signal source is selected.

Operations in the On-Screen Display menu

Using the control panel buttons	Using the remote control
1. Press [Menu] to open the On-Screen Display menu. 	1. Press [MENU] to open the On-Screen Display menu. 
2. In the On-Screen Display menu, press [▲] or [▼] to select an item. 	2. Press [▲] or [▼] to select an item. 
3. Press [Enter/Input] to confirm selections 	3. Press [ENTER] to confirm selections. 
4. Press [▲] or [▼] to select a feature and press [- ◀] or [▶ +] to adjust settings. Press [Enter/Input] to save changes. 	4. Press [▲] and [▼] to select a feature and press [◀] or [▶] to adjust settings. Press [ENTER] to confirm changes. 

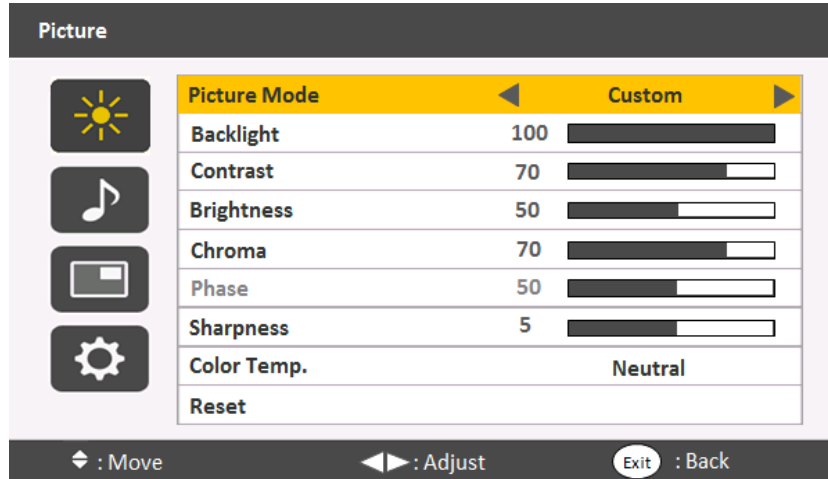
5. Press [**Menu**] to return to the previous item. Press [**Menu**] several times to return to the On-Screen Display menu, and press [**Menu**] again to close the On-Screen Display menu.



5. Press [**MENU**] to close the On-Screen Display menu.

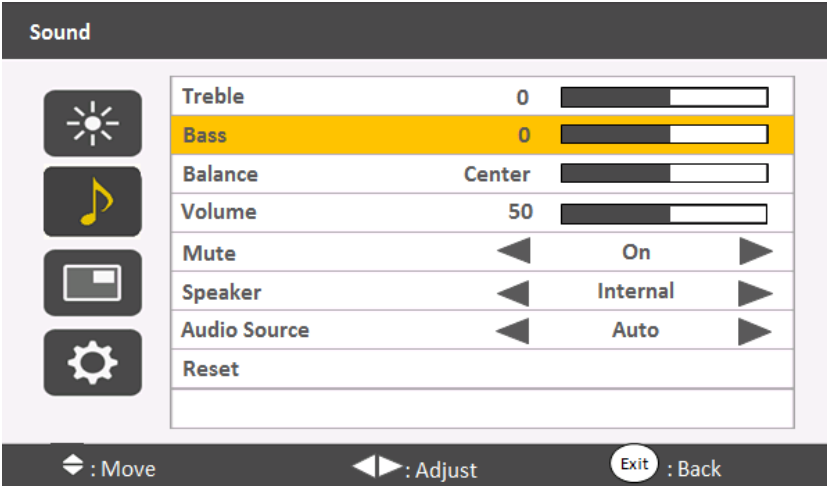


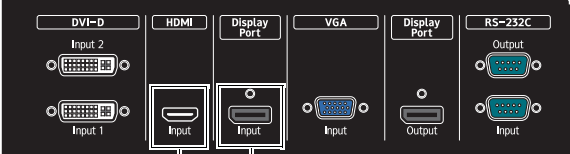
Picture menu



Name	Description
Picture Mode	Sets the display mode. • Standard: This is the standard setting. • Vivid: Displays the image so it is brighter and more vivid. • Cinema: Setting for viewing videos and movies. • Custom: Sets a combination of Picture Modes. • Low Blue Light: Reduces the amount of blue light, which is harmful to the eyes.
Backlight	Adjusts the backlight intensity for the screen. Note This feature is not available if the Adaptive Contrast function is set to On.
Contrast	Adjusts the image contrast.
Brightness	Adjusts the image brightness.
Chroma	Adjusts the color intensity of the image.
Phase	Adjusts the image phase.
Sharpness	Adjusts the image sharpness.
Color Temp.	Adjusts the color temperature. • Cool: Displays images in a bluish tone. • Neutral: Displays images in a natural tone. • Warm: Displays images in a reddish tone. • Custom: The RGB values can each be adjusted. • Low Blue Light: Adjusts the tone to reduce the amount of blue light, which is harmful to the eyes.
Reset	Resets all settings in the Picture menu.

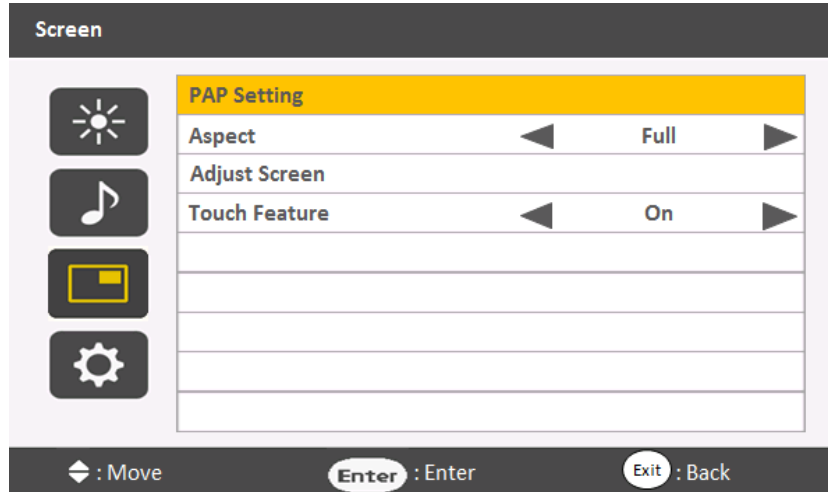
Sound menu



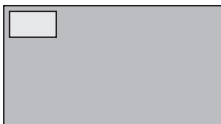
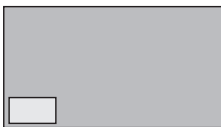
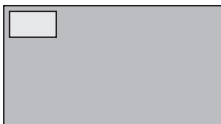
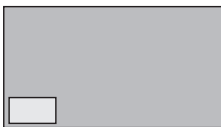
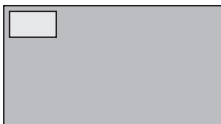
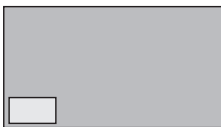
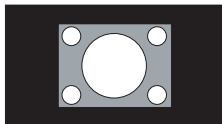
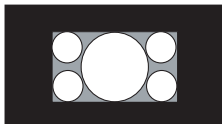
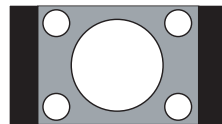
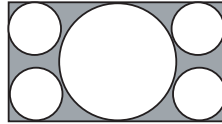
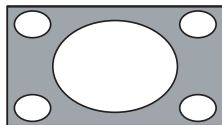
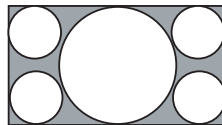
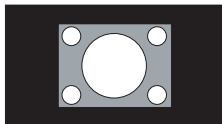
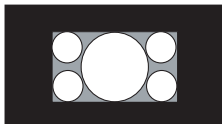
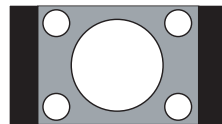
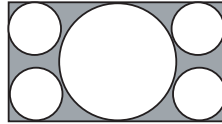
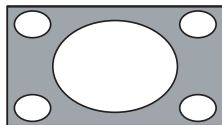
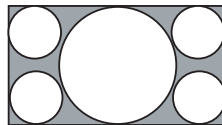
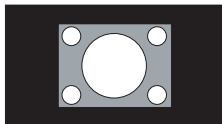
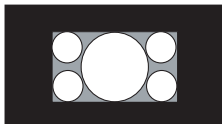
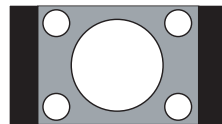
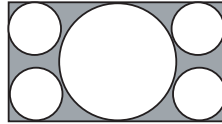
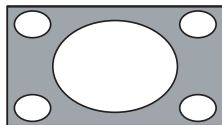
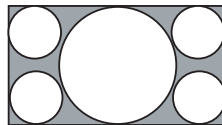
Name	Description
Treble	Adjusts the audio treble.
Bass	Adjusts the audio bass.
Balance	Adjusts the audio balance.
Volume	Turns down/up the volume.
Mute	Turns on or off the mute function.
Speaker	Sets the audio source. Internal: Selects the audio output source from the internal speakers. External: Selects the audio output source from the external speakers.
Audio Source	Select either the audio from the source of the image currently displayed or the audio from Audio Input.  HDMI DisplayPort  Audio Input
Reset	Resets all settings in the Sound menu.

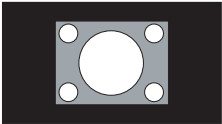
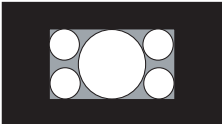
The **Computer In** is only available if the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display.

Screen menu

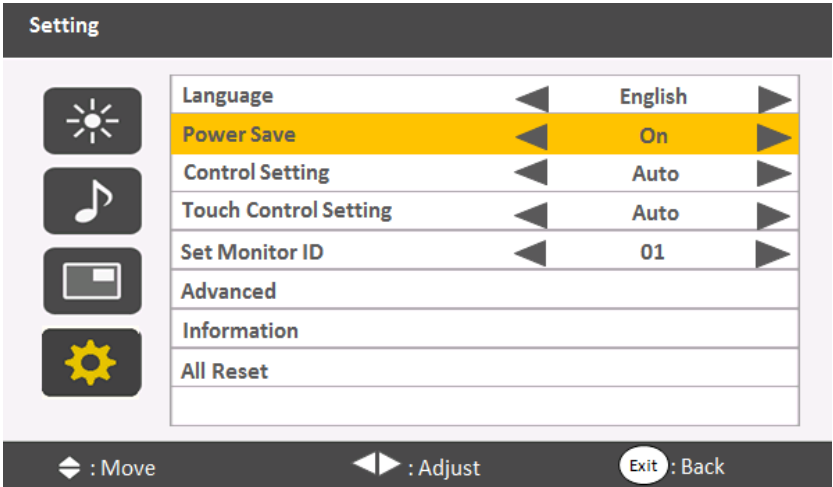


Name	Description																				
PAP Setting (Picture and Picture)	• PAP: Turns on or off the PIP (Picture in Picture) and PBP (Picture by Picture) functions.																				
	Note If the Touch Feature function is set to On , PIP will be disabled.																				
	• PAP Sub source: In PIP mode, selects the image source for the sub picture. In PBP mode, selects the image source for the right picture by default.																				
	• Swap: In PIP mode, swaps the main and sub pictures. In PBP mode, swaps the left and right pictures.																				
	• Picture Size: Changes the size of the sub picture.																				
	Note The aspect ratio of the sub picture is fixed as Normal .																				
	<table><tr><th colspan="3">PIP mode</th><th>PBP mode</th></tr><tr><td rowspan="5"></td><td colspan="2">Aspect Ratio</td><td rowspan="5">In PBP mode, the size of the sub picture cannot be changed.</td></tr><tr><td colspan="2">16:9</td></tr><tr><td>Width</td><td>Height</td></tr><tr><td>Small</td><td>960 540</td></tr><tr><td>Large</td><td>1728 972</td></tr><tr><td colspan="3">Unit: pixel</td><td></td></tr></table>	PIP mode			PBP mode		Aspect Ratio		In PBP mode, the size of the sub picture cannot be changed.	16:9		Width	Height	Small	960 540	Large	1728 972	Unit: pixel			
	PIP mode			PBP mode																	
		Aspect Ratio		In PBP mode, the size of the sub picture cannot be changed.																	
		16:9																			
Width		Height																			
Small		960 540																			
Large		1728 972																			
Unit: pixel																					

PAP Setting (Continued)	Picture Position: (PIP only) Changes the position of the sub picture. <table> <tr> <td> Upper Left  </td><td> Upper Right  </td></tr> <tr> <td> Lower Left  </td><td> Lower Right  </td></tr> </table> Note - See "List of PAP input signal combination supported by the Machine" on page 26 for more information on supported combinations. - When a controller designed compliant with OPS (Open Pluggable Specification) standard is connected to the machine, the PBP mode will be disabled.	Upper Left 	Upper Right 	Lower Left 	Lower Right 						
Upper Left 	Upper Right 										
Lower Left 	Lower Right 										
Aspect	Sets the picture's aspect ratio. Normal: Enlarges the picture to fill the screen in the vertical direction, keeping the same aspect ratio. A black frame may appear around the picture. Full: Enlarges the picture horizontally to fill the screen when the picture source is 4:3 (Standard definition). When the picture source is 16:9 (High definition), it displays in the same 16:9 aspect ratio. Real: Displays the picture in its original number of dots. <table> <tr> <th colspan="2">For video signal inputs</th></tr> <tr> <th>4:3 original source</th><th>16:9 original source</th></tr> <tr> <td></td><td></td></tr> <tr> <td> Normal  </td><td> Normal  </td></tr> <tr> <td> Full  </td><td> Full  </td></tr> </table>	For video signal inputs		4:3 original source	16:9 original source			Normal 	Normal 	Full 	Full 
For video signal inputs											
4:3 original source	16:9 original source										
											
Normal 	Normal 										
Full 	Full 										

Aspect (continued)	For PC signal input	
	Real 	Full 
Adjust Screen	• Auto Adjustment: Automatically optimizes image display for the VGA input. • Phase: Adjusts the phase of the VGA input image. • Clock Frequency: Adjusts the clock frequency of the VGA input image. • H. Position: Adjusts the horizontal position of the VGA input image. • V. Position: Adjusts the vertical position of the VGA input image.	
Touch Feature	When turned On, Aspect, PBP, and Overscan will be disabled to optimize touch performance. Note When the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display, Touch Feature is fixed to On.	

Setting menu



Name	Description
Language	Sets your preferred language for the On-Screen Display menu.
Power Save	Sets the machine to enter the power saving mode when there is no signal detected. • On: All source can enter the power saving mode and wake up the display. • Off: If no source is detected, the backlight will continue on. Note When the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display, Power Save is fixed to On.
Control Setting	• Auto: If the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display, sets the OPS controller to control the machine. If not, sets RS-232C terminal to control the machine. • RS-232C: Sets RS-232C terminal to control the machine. • Computer In: Sets the OPS (Open Pluggable Specification) controller to control the machine. Note The Computer In is only available if the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display.
Touch Control Setting	• Auto: If the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display, sets the OPS controller to control the touch feature. If not, sets the PC connected to USB Type-B For Touch port to control the touch feature. • USB: Sets the PC connected to USB Type-B For Touch port to control the touch feature. • Computer In: Sets OPS (Open Pluggable Specification) controller to control the touch feature. Note The Computer In is only available if the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display.

Set Monitor ID	Assigns an ID number for the current machine when multiple displays are connected. Note For use when under the RS-232C control mode.
Advanced	• Auto Search: If turned On, the display automatically detects available input sources. Note When the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display, Auto Search is fixed to On. • Auto Adjustment: Sets whether to optimize image display for each VGA input. • Overscan: Changes the display area of the image. When this function is enabled, 96% of the original size of the image will be displayed, and the rest of the areas surrounding the image will be cut off. - On: Enables the Overscan function for Video timing - Off: Disables the Overscan function. Note The Overscan function will become unavailable (grayed out) when: • The Touch Feature function in the Screen menu is turned on, or • The PAP function in the Screen menu is turned on. • OSD Info Box: When turned On, switching signal inputs, or changing timing, the display will show the current input source and resolution on-screen. Select Off to show the information box on-screen only when you press INFO on the remote control. • Adaptive Contrast: Turns the Adaptive Contrast function on or off. This feature enhances image contrast for dark scenes. • DisplayPort: Set to 1.1 when connecting a DisplayPort standard version 1.1 device to the DisplayPort Input jack. When connecting a DisplayPort standard version 1.2 device, select 1.2.
Information	Displays the following information of your machine. • Model Name • Operation Time • Software Version
All Reset	Returns all settings to factory default values.

5. Product information

Specifications

Item		Specifications
LCD panel	Backlight	LED
	Panel size	84"
	Pixel pitch (mm)	0.4845 x 0.4845
	Native resolution (pixels)	3840 x 2160
	Brightness (cd/m ²) (typical)	350
	Contrast (typical)	1400:1
	Response time (ms) (typical)	5 ms (grijs naar grijs)
	Panel Bit	10-bit
Touch	Technology	IR
	Resolution	32767 x 32767
	Maximum number of touches	10
	Touch Output	USB 2.0
	Supported Operating Systems	Multi-point touch: Windows 7 (Home Premium/Ultimate/Professional) Windows 8, Windows 8 Pro, Windows 8 Enterprise Windows 8.1, Windows 8.1 Pro, Windows 8.1 Enterprise
		Single-point touch: Windows 7 (Home Basic/Home Premium/Ultimate/Professional) Windows 8, Windows 8 Pro, Windows 8 Enterprise Windows 8.1, Windows 8.1 Pro, Windows 8.1 Enterprise Mac OS X (10.8/10.9/10.10)
Panel glass	Type	AG anti-glare glass
	Thickness	Approximately 4 mm
Input	Computer	VGA (D-Sub 15-pin), DVI-D
	Video	HDMI, DisplayPort
	Audio	Line-in (3.5 mm jack)
	Control	RS-232C (D-Sub 9-pin)
	USB	Type B (exclusively for the touch panel*)
Output	Computer	DisplayPort
	Audio	Speaker L/R
	Control	RS-232C (D-Sub 9-pin)
Audio	Audio W (Amp)	12 W x 2
	Internal speaker	12 W (8Ω) x 2

Power	Supply	100 - 240V AC, 50/60 Hz
	Consumption (While operating)	564 W
	Consumption (Standby)	Less than 0.5 W
Environment	Operating Temperature	0 - 32°C (32 - 89.6°F)
	Operating Humidity	10 - 80% (without condensation)
Mechanical	Weight	Less than 110 kg
	Dimensions (W x H x D)	
	- with pen tray	1935 × 1169 × 131 mm
	- without pen tray	1935 × 1134 × 131 mm
Feature	RS232 control daisy chain	
	ID setting	
	Sharpness enhancement	
	Dimming control (Adaptive Contrast)	
	Blue light reduction function	
	Picture in Picture (PIP)	
	Picture by Picture (PBP)	
	10-bit color processing	
	Operation Time	

Note Specifications and functions are subject to change without notice.

* **USB Type-B For Touch** port is exclusively for the touch panel. You can operate a computer using the touch panel of the machine by connecting the machine to the computer via USB. When a controller designed compliant with OPS (Open Pluggable Specification) standard is connected to the machine, the **USB Type-B For Touch** port is disabled. When using the **USB Type-B For Touch** port, set the **Touch Control Setting** in the **Setting** menu to **USB**.

List of Video Input Signals Supported by the Machine

Resolution	Input source			
	VGA	DVI 1/ DVI 2	DisplayPort	HDMI
640 x 480 @ 60Hz (VGA)	☐	☐	☐	☐
640 x 480 @ 72Hz	☐	☐	☐	☐
640 x 480 @ 75Hz	☐	☐	☐	☐
720 x 400 @ 70Hz	☐	☐	☐	☐
800 x 600 @ 60Hz (SVGA)	☐	☐	☐	☐
800 x 600 @ 75Hz	☐	☐	☐	☐
832 x 624 @ 75Hz	☐	☐	☐	☐
1024 x 768 @ 60Hz (XGA)	☐	☐	☐	☐
1024 x 768 @ 75Hz	☐	☐	☐	☐
1152 x 870 @ 75Hz	☐	☐	☐	☐
1280 x 768 @ 60Hz	☐	☐	☐	☐
1280 x 800 @ 60Hz	☐	☐	☐	☐
1280 x 720 @ 60Hz	☐	☐	☐	☐
1280 x 1024 @ 60Hz (SXGA)	☐	☐	☐	☐
1600 x 900 @ 60Hz	☐	☐	☐	☐
1680 x 1050 @ 60Hz (WSXGA)	☐	☐	☐	☐
1680 x 1050 @ 60Hz RB (WSXGA)	☐	☐	☐	☐
1920 x 1080 @ 60Hz (FHD)	☐	☐	☐	☐
720 x 480i (60Hz)				
720 x 576i (50Hz)				
720 x 480p (60Hz)		☐	☐	☐
720 x 576 (50Hz)		☐	☐	☐
1280 x 720p (25Hz)				
1280 x 720p (30Hz)				
1280 x 720p (50Hz)		☐	☐	☐
1280 x 720p (60Hz)		☐	☐	☐
1920 x 1080i (50Hz)				
1920 x 1080i (60Hz)				

Resolution	Input source			
	VGA	DVI 1/ DVI 2	DisplayPort	HDMI
1920 x 1080p (24Hz)		○	○	○
1920 x 1080p (25Hz)		○	○	○
1920 x 1080p (30Hz)		○	○	○
1920 x 1080p (50Hz)		○	○	○
1920 x 1080p (60Hz)		○	○	○
1920 x 1080p (24Psf)				
1920 x 1080p (25Psf)				
3840 x 2160p (30Hz)			○	○
3840 x 2160p (60Hz)			○	○

Note

- ○: supported
- Blank: not supported

List of PAP input signal combination supported by the Machine

		Main/Left picture signal source					
		VGA	DVI 1 1	DVI 1 2	HDMI	Display Port	Computer In *
Sub/Right picture signal source	VGA	○	○	○	○	○	○
	DVI 1 1	○	○	○	○	○	○
	DVI 1 2	○	○	○	○	○	○
	HDMI	○	○	○	○	○	○
	DisplayPort	○	○	○	○	○	○
	Computer In *	○	○	○	○	○	○

- Note**
- ○: supported
 - Blank: not supported

* The **Computer In** is only available if the controller designed compliant with OPS (Open Pluggable Specification) standard is connected to this display.

Output signals

The **DisplayPort Output** jack of the machine outputs the signals from the **DisplayPort Input** jack as they are. You can connect devices, and view the video or image displayed on the machine on the connected device.

Note

Depending on the connected device, the video or image may not be displayed on the device connected to the output terminal even if it is displayed on the machine's display.

6. Troubleshooting

Problem	Solution
No picture	Check the following: • Is the machine turned on? Check the power indicator of the display. • Is the signal source device turned on? Turn on the device and try again. • Are there any loose cable connections? Make sure that all cables are connected firmly. • Have you chosen an unsupported output resolution on the computer? Refer to "List of Video Input Signals Supported by the Machine" on page 24 to select a supported resolution and try again. • Have you chosen an unsupported output resolution on the DVD or Blu-ray disc player? Refer to "List of Video Input Signals Supported by the Machine" on page 24 to select a supported resolution and try again.
Only a monochrome image is displayed.	• Reconnect the cable. • Check that the correct cable is used.
• The display is too dark. • The display is too bright.	Press the [Menu] button on the right side of the display and adjust the brightness. For details about how to adjust the brightness, see "Picture menu" on page 15.
No sound	Check the following: • Have you turned on the mute function on the machine or the input source device? Turn off the mute function or increase the audio volume level and try again. • Are there any loose cable connections? Make sure that all cables are connected firmly. • Check that the correct audio source is selected. For details about how to select an input source, see "Sound menu" on page 16.

The computer input image looks strange	Check the following: • Have you chosen an unsupported output resolution on the computer? Refer to "List of Video Input Signals Supported by the Machine" on page 24 to select a supported resolution and try again. • Use the Auto Adjustment function (See "Adjust Screen" on page 19) to let the display automatically optimize the display of computer image. • If the result of the Auto Adjustment function is not satisfactory, use the Clock Frequency, Phase, H. Position and V. Position functions to manually adjust the image. • Reconnect the cable again, and then check that the cable is connected correctly. • Save changes to a file you are working on, and then quickly press and release the power button on the front side of the display. When the machine shuts down, press the power button again to restart the machine. If any of these actions do not fix the problem, contact your service representative.
The control panel buttons do not work	When a controller designed compliant with OPS (Open Pluggable Specification) standard is connected to the machine, the control panel buttons will not work until the controller is completely shut down. Wait until shutdown is complete.
The remote control does not work	• Check for incorrect battery orientation. • Check for dead batteries. • Check your distance and angle from the machine. • Check whether remote control is properly being pointed at the remote control sensor window of the display. • Check for any obstacle between the remote control and the remote control sensor window. • Check that the remote control sensor window is not under strong fluorescent lighting, or in direct sunlight. • Check for any devices (computer or personal digital assistant, PDA) nearby that transmit infrared signals which may cause interference to signal transmission between the remote control and the machine. Turn off the infrared function of these devices.
An abnormal sound is heard from the area surrounding the output/ input terminals on the back of the display	Quickly press and release the main power button on the back of the display. When the machine shuts down, press the main power button again to restart the machine. If any of these actions do not fix the problem, contact your service representative.

