

Instructions for Use



Color LCD Monitor

Important

Please read this "Instructions for Use", and "Installation Manual" (separate volume) carefully to familiarize yourself with safe and effective usage.

Please retain this manual for future reference.

• For monitor adjustment and settings, refer to the "Installation Manual".

SYMBOLS

This manual and this product use the symbols below. They denote critical information. Please read them carefully.

	Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.
	Failure to abide by the information in a CAUTION may result in moderate injury and/or property or product damage.
\triangle	Indicates a warning or caution. For example, 🖄 indicates an "electrical shock" hazard.
\bigcirc	Indicates a prohibited action. For example, 🕥 means "Do not disassemble".

This product has been adjusted specifically for use in the region to which it was originally shipped. If operated outside this region, the product may not perform as stated in the specifications.

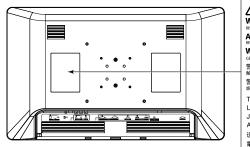
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PRECAUTIONS

IMPORTANT

- This product has been adjusted specifically for use in the region to which it was originally shipped. If the product is used outside the region, it may not operate as specified in the specifications.
- To ensure personal safety and proper maintenance, please carefully read this section and the caution statements on the monitor.

Location of the Caution Statements





Symbols on the unit

Symbol	This symbol indicates			
\bigcirc	Power Switch:	Press to turn the monitor's power off.		
\bigcirc	Power Switch:	Press to turn the monitor's power on.		
	Direct current			
Â	Alerting to electrical hazar	d		
	CAUTION	CAUTION		
\bigtriangledown	Potential equalization terminal			
X	WEEE marking:	Product must be disposed of separately; materials may be recycled.		
CE	CE marking:	EU conformity mark in accordance with the provisions of Council Directive and/or Regulation (EU).		
	Manufacturer			
	Date of manufacture			
RXonly	Caution: Federal law (USA) restricts this device to sale by or on the order of a licensed healthcare practitioner.			
EU Medical Device	Medical device in EU			
EU Importer	Importer in EU			
UK CA	Mark signifying compliance with UK regulations			
UK Responsible Person	UK Responsible Person			

Symbol	This symbol indicates
CH REP	Authorised representative in Switzerland
EC REP	Authorised representative in the European Community

If the unit begins to emit smoke, smells like something is burning, or makes strange noises, disconnect all power connections immediately and contact your local EIZO representative for advice.

Attempting to use a malfunctioning unit may result in fire, electric shock, or equipment damage.

Do not disassemble or modify the unit.

Opening the cabinet or modifying the unit may result in fire, electric shock, or burns.

Use multiple units or have a standby unit ready.

Prepare an appropriate countermeasure in case the monitor fails.

Do not turn the bushing to fix the AC adapter power cable.

Doing so may result in fire, electric shock, or equipment damage.

Refer all servicing to qualified service personnel.

Do not attempt to service this product yourself as opening or removing covers may result in fire, electric shock, or equipment damage.

Keep small objects or liquids away from the unit.

Small objects accidentally falling through the ventilation slots into the cabinet or spillage into the cabinet may result in fire, electric shock, or equipment damage. If an object or liquid falls/spills into the cabinet, unplug the unit immediately. Have the unit checked by a qualified service engineer before using it again.

Install the unit correctly on a sturdy and stable location using an arm or stand.

In accordance with the User Manual of each product, install it correctly on a sufficiently sturdy desk or wall. If the unit is installed incorrectly, it may drop or fall over, resulting in personal injury or equipment damage. If the unit falls, disconnect the power immediately and ask your local EIZO representative for advice. Do not continue using a damaged unit. Using a damaged unit may result in fire or electric shock.

Use the unit in an appropriate location.

- Otherwise, fire, electric shock, or equipment damage may result.
 - Do not place outdoors.
 - Do not place in any form of transportation (ships, aircraft, trains, automobiles, etc.).
 - Do not place in dusty or humid environments.
 - Do not place in locations where water may be splashed on the screen (bathrooms, kitchens, etc.)
 - Do not place in locations where smoke or steam come in direct contact with the screen.
 - Do not place near heat generating devices or humidifiers.
 - Do not place in locations where the product is subject to direct sunlight.
 - Do not place in environments with flammable gas.
 - Do not place in environments with corrosive gases (such as sulfur dioxide, hydrogen sulfide, nitrogen dioxide, chlorine, ammonia, ozone, etc.)
 - Do not place in environments with dust, components that accelerate corrosion in the atmosphere (such as sodium chloride and sulfur), conductive metals, etc.

To avoid danger of suffocation, keep the plastic packing bags away from babies and children.

Use the enclosed power cord and connect to the standard power outlet in your country.

Be sure to use within the rated voltage of the power cord. Otherwise, fire or electric shock may result. Power supply: 100-240Vac 50/60Hz









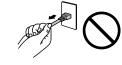
Use the enclosed AC adapter.

The enclosed AC adapter (AHM250PS48T) is for use with this product only. Do not use the AC adapter with other equipment. Do not use an AC adapter designed for other devices with this product.

Connecting to power sources that do not match the power ratings of the AC adapter may result in fire or electric shock.

To disconnect the power cord or adapter power cable, grasp the plug firmly and pull.

Tugging on the cord or cable may damage it and result in fire or electric / shock.



OK

The equipment must be connected to a grounded main outlet.

Failure to do so may result in fire or electric shock.

Use the correct voltage.

- The unit is designed for use with a specific voltage only. Connection to a voltage other than that specified in this "Instructions for Use" may cause fire, electric shock, or equipment damage. Power supply: 100-240Vac 50/60Hz
- Do not overload your power circuit, as this may result in fire or electric shock.

Handle the power cord and AC adapter with care.

Handle the power cord and AC adapter with care.

Do not place heavy objects on the power cord or AC adapter, or pull or tie the power cord. Using a damaged cord or AC adapter may result in fire or electric shock.

The operator should not touch the patient while touching the product.

This product has not been designed to be touched by patients.

Never touch the plug, AC adapter or power cord during a thunderstorm.

Touching them may result in electric shock.

Do not touch a damaged LCD panel directly with bare hands. Liquid crystal is poisonous. If any part of your skin comes in direct contact with the

panel, wash thoroughly. If liquid crystal enters your eyes or mouth, immediately flush with large amounts of water and seek medical attention.

Check the operational state before use.

- Begin use after ensuring that there are no problems with the displayed image.
- When rotating the display direction of the input image by 180° or flipping it horizontally, check the image and status icon before use.
- When using multiple units, begin use after ensuring that the images are displayed appropriately.

Securely fix cables / cords that have a fixing feature.

If they are not fixed securely, cables / cords may disconnect, and subsequently images may be cut off and your operations may be disrupted.

Handle with care when carrying the unit.

Disconnect the power cord and cables when moving the unit. Moving the unit with the power cord or cables attached is dangerous and may result in injury.

Carry or place the unit according to the correct specified methods.

• Monitors of size 30 inches and above are heavy. When unpacking and/or carrying the monitor, ensure at least two people are involved.

Dropping the unit may result in injury or equipment damage.

Do not block the ventilation slots on the cabinet.

- Do not place any objects on the ventilation slots.
- Do not install the unit in a place with poor ventilation or inadequate space.
- Do not use the unit laid down or upside down.

Blocking the ventilation slots prevents proper airflow and may result in fire, electric shock, or equipment damage.

Do not touch the plug or AC adapter with wet hands.

Doing so may result in electrical shock.

Use an easily accessible power outlet.

This is to facilitate disconnecting the power in case of a problem.

The AC adapter becomes hot during use.

- Do not touch the AC adapter while it is energized. Touching it may cause a low temperature burn.
- Do not cover or place anything on top of the AC adapter. Do not place the AC adapter on top of things that trap heat such as carpets, blankets, etc. Keep the AC adapter away from direct sunlight and heat sources. Failure to do so may result in fire.
- Before moving the monitor, be sure to turn off the power switch, disconnect the power plug from the power outlet, and wait until it has cooled completely.

Do not suspend the AC adapter in midair.

Using the adapter while it is hanging suspended may result in fire or electrical shock.

Do not place the AC adapter in a vertical orientation.

Otherwise, dust or water may enter the adapter and may result in fire or electrical shock.

Do not subject the unit and the AC adapter to any impact due to dropping them or any other causes.

Using the adapter after it has been subjected to impact may result in fire or electrical shock.

Do not subject the LCD panel to strong impact.

Otherwise, glass will break and may result in injury.





Periodically clean the area around the power plug and the ventilation slot of the monitor and the AC adapter.

Dust, water, or oil on the plug may result in fire.

Unplug the unit before cleaning it.

Cleaning the unit while it is plugged into a power outlet may result in electric shock.

If you plan to leave the unit unused for an extended period of time, disconnect the power plug from the wall socket after turning off the power switch for safety and power conservation.

For users in the territory of the EEA and Switzerland:

Any serious incident that has occurred in relation to the device should be reported to the Manufacturer and the Competent Authority of the Member State in which the user and/or patient is established.

About the Monitor

Indications for Use

This product is intended to be used to display medical images, such as endoscopic surgery images.

Attention

- This product is not intended for diagnostic purposes.
- This product should be set to horizontal view mode.
- This product may not be covered by warranty for uses other than those described in this manual.
- The specifications stipulated in this manual are only applicable when the enclosed power cord is used.
- Only use optional products manufactured or specified by us with this product.

Precautions for Use

- Parts (such as the LCD panel and the fan) may deteriorate over extended periods of time. Periodically check that they are operating normally.
- When the screen image is changed after displaying the same image for extended periods of time, an afterimage may appear. Use the screen saver or power save function to avoid displaying the same image for extended periods of time. An afterimage may appear even after a short period has elapsed depending on the displayed image. If this occurs, changing the image or leaving the power off for a few hours may solve the problem.
- If the monitor displays continuously over a long period of time, dark smudges or burn-in may appear. To maximize the life of the monitor, we recommend the monitor be turned off periodically.
- The backlight of the LCD panel has a fixed lifetime. When the screen becomes dark or begins to flicker, please contact your local EIZO representative.
- The screen may have defective pixels or a small number of light dots on the screen. This is due to the characteristics of the panel itself, and is not a malfunction of the product.
- Do not press on the panel or edge of the frame strongly, as this may result in display malfunctions, such as interference patterns, etc. If pressure is continuously applied to the panel surface, it may deteriorate or damage it. (If the pressure marks remain on the panel, leave the monitor with a black or white screen. The symptom may disappear.)
- Do not scratch or press on the panel with any sharp objects, as this may result in damage to the panel. Do not attempt to brush with tissues as this may scratch the panel.
- Condensation may form on the surface or interior of this product when it is brought into a cold room, when the temperature suddenly rises, or when it is moved from a cold room to a warm room. In that case, do not turn the monitor on. Instead wait until the dew condensation disappears, otherwise it may cause some damage to the monitor.
- It takes about 30 minutes for the monitor display to stabilize. Before using the monitor, wait 30 minutes or longer after the monitor power has been turned on or after the monitor has recovered from the power saving mode.

Cleaning

- Periodic cleaning is recommended to keep the monitor looking new and to prolong its operation lifetime.
- Gently wipe off any dirt on the cabinet or panel surface with a soft cloth soaked in a small amount of water or one of the chemicals listed below.

Chemicals that may be used for cleaning

Material name	Product name
Ethanol	Ethanol
Isopropyl alcohol	Isopropyl alcohol
Benzalkonium chloride	Welpas
Glutaral	Sterihyde
Glutaral	Cidex Plus28
Ammonia	Ammonia water
Hydrogen peroxide	Hydrogen peroxide solution
Alkyldiaminoethylglycine hydrochloride	Satenidin solution
Benzalkonium chloride	Zalkonin solution
Benzethonium chloride	Bezeton solution

Attention

- Do not use chemicals on a frequent basis. Chemicals such as alcohol and antiseptic solution may cause gloss variation, tarnishing, and fading of the cabinet or panel, and also quality deterioration of the image.
- Never use any thinner, benzene, wax, or abrasive cleaner, which may damage the cabinet or panel.
- Do not let chemicals come into direct contact with the monitor.

Cybersecurity warnings and responsibilities

- Firmware update should be performed through EIZO Corporation or its distributor.
- If EIZO Corporation or its distributor instructs to update the firmware, update it immediately.

Contents

PRECAUTIONS			
IMPORTANT			
About the Monitor9			
Indi	cations for Use9		
Pre	Precautions for Use9		
Clea	aning10		
Cyb	persecurity warnings and responsibilities10		
Conte	nts 11		
Chapt	er 1 Introduction12		
1-1.	Features12		
1-2.	Package Contents13		
1-3.	Controls and Functions13		
Chapt	er 2 Installation / Connection16		
2-1.	Before Installing the Product16		
	Installation Requirements16		
2-2.			
2-3.			
2-4.			
2-5.			
2-6.	5		
•	er 3 If No Image Is Displayed21		
Chapt	er 4 Specifications22		
4-1.			
4-2.	- · · · · · · · · · · · · · · · · · · ·		
4-3.			
Appen	ıdix25		
Mec	dical Standard 25		
EMO	C Information		
War	rning for Radio interference31		

Chapter 1 Introduction

1-1. Features

High-quality and high-resolution Ultra High Definition (UHD)

- The UHD LCD display allows for display of high-quality, high-resolution medical images.
- Equipped with front protection panel
- LED Backlight
- · Optical bonding for high visibility
- High luminosity

Supports multiple I/O

- SDI signal: 2 inputs / 1 output
 SDI 1 terminal: compatible with up to 12G-SDI (12G / 6G / 3G / HD) signals
 SDI 2 terminal: compatible with up to 3G-SDI (3G / HD) signals
 3G-SDI: compatible with Level B Dual-Link
- DVI signal: 1 input / 1 output
- DisplayPort signal: 1 input / 1 output Compatible with DisplayPort 1.2 SST (Single Stream Transport) UHD
 UDM signal: 1 input
- HDMI signal: 1 input
 UHD support

Həmi

Other functions

- Optimal presets (DisplayPort [sRGB], DisplayPort [BT.2020], HDMI [BT.2020], SDI [BT.2020])
- Dual screen display (PbyP and PinP)
 - Permits parallel display of two input images side by side.
- To allow a wide color gamut, a color gamut switch function is installed according to usage when a 4K signal is used.
- Display direction switching function
 The display direction of the input image can be switched.
 The image can be rotated 180° or flipped horizontally.
 Display the status icon according to the display direction (180°:), flipped horizontally:
).
- Gamma switch function
 Gamma function is installed according to usage.
 Simplified DICOM[®] image is supported.
- Color temperature switch function Color temperature switch function is installed according to usage.
- External remote function
- Allows for remote control via the RS-232C terminal.
- IP32 protection structure (Excluding the AC adapter)
- The IPx2 protection level is effective when the monitor is installed so it cannot be put at a slant.
- Auto Input Detection function Automatically switches to the available other input connector when no signals are detected from the selected input connector.

1-2. Package Contents

Check that all of the following items are included in the package.

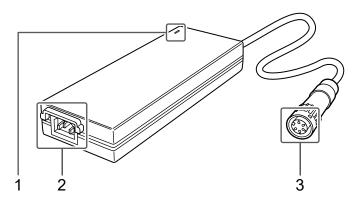
Note

- It is recommended that the box and packing materials be stored so that they can be used to move or transport this product.
 - Monitor body
 - Power cord
 - AC adapter (AHM250PS48T)
 - Cable cover (with screws)
 - Monitor attachment screw
 - (M4 × 12) × 4
 - (M6 × 15) × 4

- User's Manual CD
 - Instructions for Use
 - Installation Manual
 - Outline Dimensions
- Instructions for Use

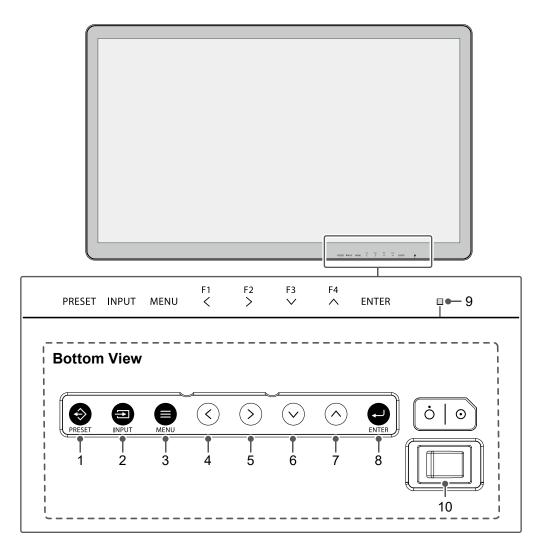
1-3. Controls and Functions

AC adapter



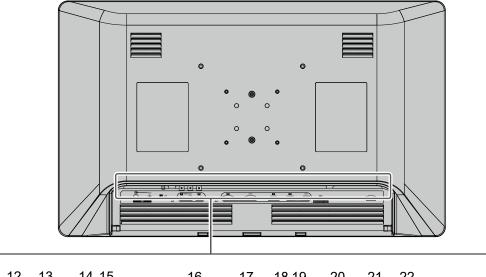
1. Main power indicator	Depending on the operation status of the main power supply, the indicator of the AC
	adapter turns on or off.
	Lit up: Power on, Not lit up: Power off
2. AC IN terminal	Connects the power cord.
3. DC OUT terminal	Connect to the DC IN terminal on the monitor.

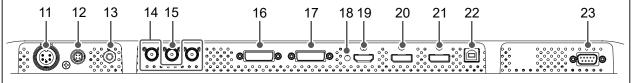
Front



1. 📀 (PRESET) button	Displays the preset menu.
2. 🗐 (INPUT) button	Displays the input select menu.
3. 🖨 (MENU) button	Displays the main menu.
4. 🔇 (F1) button	Executes the function assigned to this button. Select items in the menu screen.
5. (F2) button	
6. 🕑 (F3) button	
7. 🔿 (F4) button	
8. 🔁 (ENTER) button	Select items in the menu screen.
9. Power indicator	The indicator color differs depending on the monitor's operation status.
	Green: Normal operating mode, Orange: Power saving mode, Off: Power off
10. Power switch	Turns the power on or off.
	⊙: On,

Rear





11. DC IN terminal	Connects the DC OUT terminal of the AC adapter.
12. DC OUT terminal	Used to supply 5V power to a peripheral.
	Attention
	No device coming in contact with a patient may be connected to the DC OUT
	terminal.
12 Potential equalization	
13. Potential equalization terminal	This terminal ensures equal potential between the monitor and other devices.
	Connects equipotential plugs.
14. SDI 1 / 2 input terminals	Connect from devices with an SDI output terminal.
(BNC type)	SDI 1 is compatible with 12G / 6G / 3G / HD-SDI, and SDI 2 is compatible with
	3G / HD-SDI.
15. SDI output terminal	The signal into the SDI 1 input terminal is output as is.
(BNC type)	
16. DVI-D input terminal (DVI-D)	Connect from devices with DVI-D output.
17. DVI-D output terminal	The signal into the DVI-D input terminal is output as is.
(DVI-D)	
18. HDMI cable holder	Secures the HDMI cable that is connected to the monitor.
19. HDMI input terminal (HDMI)	Connect from devices with HDMI output.
20. DisplayPort input terminal	Connect from devices with DisplayPort output.
(DisplayPort)	
21. DisplayPort output terminal	The signal into the DisplayPort input terminal is output as is.
(DisplayPort)	
22. USB terminal (USB upstream	For maintenance. Cannot be used.
port, Type-B)	
23. RS-232C terminal	This product can be controlled by connecting an external device.
(D-Sub 9pin)	Input switching and various adjustments are possible from connected external
	devices.

Chapter 2 Installation / Connection

2-1. Before Installing the Product

Carefully read "PRECAUTIONS" (page 3) and always follow the instructions.

When installing this product, perform thorough operational testing (of the system, cables, arms, etc.) in the environment where the product will be used.

Installation Requirements

When installing the monitor, ensure that there is adequate space around the sides, back, top, and bottom of the monitor.

Attention

- Position the monitor so that there is no light to interfere with the screen.
- Do not use any materials or objects that will cover the monitor or the AC adapter.

2-2. Installing the Product

This product should be installed using an arm or stand.

Attention

- When installing, do so by carefully following the information in the User's Manual about the arm or stand.
- · Ensure the following and select components that comply with the VESA standards.
 - Clearance between the screw holes: 100 mm x 100 mm, 200 mm x 200 mm
- Strong enough to support the weight of the monitor unit (excluding the stand) and attachments such as cables.
- Use the supplied screws (M4 screws for 100 mm x 100 mm, M6 screws for 200 mm x 200 mm) when installing.
- Please follow the specifications for the screw tightening torque. If the tightening is not performed correctly, the attached part may be damaged, which may result in injury or equipment damage.
- When using an arm or stand, attach it to achieve the following tilt angles of the monitor.
- Up 45°, down 45°
- · Connect the cables after attaching an arm or stand.
- The monitor and other attached parts are heavy. Dropping them may result in injury or damage to equipment.
- Periodically check the tightness of the screws. If not sufficiently tight, the monitor may detach from the arm, which may result in injury or equipment damage.

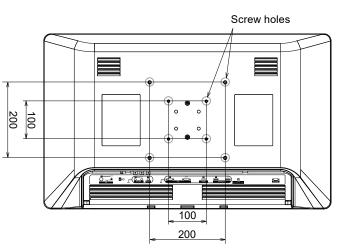
1. Attach the arm or stand to the back of the monitor by aligning the four screw holes and secure the arm or stand using the screws supplied with the monitor.

The type of screw and the tightening torque vary depending on the screw hole.

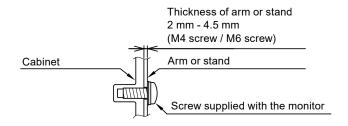
	•	Screw hole with 200 mm pitch (exterior) x 4 places
Screw type	M4 screws	M6 screws
Screw tightening	1.0 N⋅m to 1.4 N⋅m	1.5 N⋅m to 2.0 N⋅m
torque		
Required tools	Phillips-head screwdriver (No. 2)	

Rear

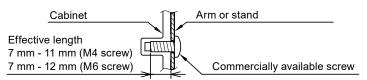
Unit: mm



Using the supplied screws



Using commercially available screws



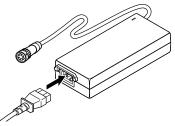
2-3. Connecting the Power Cord

Attention

- Turn off the monitor before connecting it.
- When removing the power cord, always remove the power plug from the power outlet first.

1. Connect the power cord to the AC IN terminal on the AC adapter.

Insert the power cord all the way to the back.

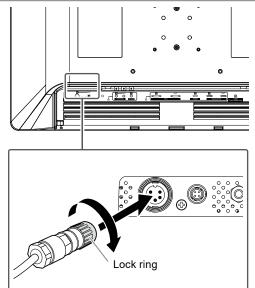


2. Connect the DC OUT terminal of the AC adapter to the DC IN terminal on the monitor.

Align the connector shape with the port shape, rotate the lock ring clockwise, and fix it securely.

Note

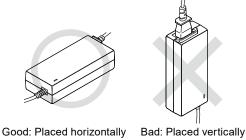
• If the lock ring is stiff and does not rotate, push it further into the monitor and try again to rotate it.



3. Check the rated value on the AC adapter and connect the power plug to the power outlet.

Attention

• If the AC adapter is installed vertically, make sure the AC inlet is not at the top.



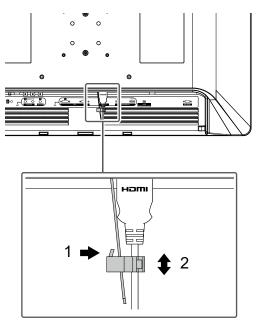
• Secure the adapter using a banding band such as a cable tie as necessary to prevent it from dropping.

2-4. Connecting the Cables

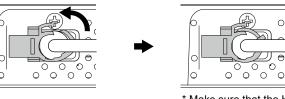
1. Connect the cables appropriate for the device to be used.

If you connected the HDMI cable to the monitor, be sure to secure the HDMI cable with the HDMI cable holder.

- 1. Turn the lever of the HDMI cable holder downward.
- 2. Adjust the holding position.



3. Close the opening of the HDMI cable holder.



* Make sure that the HDMI cable is held securely.

Attention

- Do not use damaged cables.
- Do not connect or disconnect the signal cable while the monitor is turned on.
- The SDI terminal, DVI-D terminal, DisplayPort terminal and HDMI terminal are vulnerable to static electricity, therefore exercise caution when installing. When working with the monitor, be sure to observe the following:
 - Do not touch the connector pins.
 - Do not touch pins at the end of any cable connected to a connector.
 - Take anti-static precautions such as using an anti-static wrist strap when working.

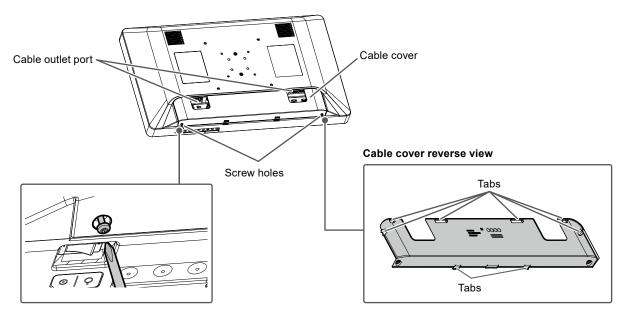
Note

• The warning label on the right is displayed near the DisplayPort terminal, SDI terminal, DVI-D terminal and HDMI terminal on this product.



2-5. Installing the Cable Cover

- **1.** Align the cable cover on the back of the monitor in such a way that the cables can go through the cable outlet port.
- **2.** Insert the cable cover tabs into the grooves in the monitor.
- **3.** Tighten the screws at the left and right-hand holes on the bottom side of the monitor.



Attention

- Ensure that cables are not pinched between the cable cover and the monitor.
- Securely tighten the screws in the two locations. (Tightening torque: 0.4 N·m to 0.7 N·m, Tool used: Phillips-head screwdriver (No. 2))
- Avoid subjecting the terminal and cable to stress.
- Do not pack or transport with the cable cover attached.

2-6. Turning On the Power

1. Turn on the power switch on the bottom of the monitor, and then turn on the monitor.

The power indicator on the front of the monitor lights up green.

If the indicator does not light up, see "Chapter 3 If No Image Is Displayed" (page 21).

Note

• If the power switch on the bottom of the monitor is turned off, the monitor is turned off.

Chapter 3 If No Image Is Displayed

Problem	Possible cause and remedy
1. No picture.	 Check whether the power cord is connected properly. Check whether the DC OUT terminal and the DC IN terminal are connected properly. Turn on the power switch. Check whether the main power indicator of the AC adapter is on. Turn off the power and then turn it on again.
2. The message below appears.	This message appears when the signal is not input correctly even though the monitor is functioning properly.
 This message appears when no signal is input. Example: DisplayPort No Signal 	 The message shown on the left may appear, because some devices to be connected do not output the signal immediately after power-on. Check whether the device to be connected is turned on. Check whether the signal cable is connected properly. Turn off the power and then turn it on again.
 This message indicates that the input signal is outside the specified frequency range. Example: DisplayPort Signal Error 	 Check whether the device to be connected is configured to meet the resolution and vertical scan frequency requirements of the monitor (see "4-2. Displayable Input Signals" (page 24)). Reboot the device to be connected.

4-1. Specifications List

Monitor

LCD Panel			
Туре	Color (IPS)		
Backlight	LED		
Size	32.0 inches (81.3 cm)		
Display Resolution (H x V)	3840 × 2160		
Display Size (H x V)	708.5 mm × 398.5 mm		
Pixel Pitch	0.185 mm × 0.185 mm		
Display Colors	8-bit color (DVI): approx. 16.7	7 million colors	
	· · · ·	10-bit colors (SDI / DisplayPort / HDMI): approx. 1.07 billion colors	
Viewing Angles	178° / 178°		
(H / V, typical)			
Brightness (typical)	850 cd/m ²		
Response Time (typical)	20 ms (black -> white -> black)	
Contrast Ratio (typical)	1800:1	1	
Video Signals			
Input Terminals	SDI 1 (BNC)	12G / 6G / 3G / HD-SDI	
	SDI 2 (BNC)	3G / HD-SDI	
	DVI (DVI-D) × 1	Single link, HDCP support	
	DisplayPort × 1	HDCP support	
	HDMI × 1	HDCP 1.4 support	
Output Terminals	SDI 1 (BNC)	12G / 6G / 3G / HD-SDI	
·	DVI (DVI-D) × 1	Single link, HDCP unsupported	
	DisplayPort × 1	HDCP unsupported	
Monitor Control			
Monitor Control Terminals	RS-232C (D-Sub 9 pin) x 1		
Power			
Input	DC 48 V ± 10%, 3.75 A		
Maximum Power	181 W or less		
Consumption			
DC OUT terminal	DC 5 V, 2 A		
Physical Specifications	· · · · ·		
External dimensions	760.8 mm × 463.8 mm × 91.6 mm		
$(W \times H \times D)$			
Mass	Approx. 13.2 kg		
Protection structure			
	be put at a slant.)		
Operating Environmental F	Requirements		
	1		
Humidity	20% to 85% R.H. (no condensation)		
Air Pressure	540 hPa to 1060 hPa		
	nvironmental Requirements		
Temperature	-20 °C to 60 °C (-4 °F to 140 °F)		
Humidity	10% to 90% R.H. (no condensation)		
Air Pressure	540 hPa to 1060 hPa		
Protection structure IP32 (The IPx2 protection level is effective when the monitor is installed so it cannot be put at a slant.) Operating Environmental Requirements Temperature 0 °C to 35 °C (-4 °F to 140 °F) Humidity 20% to 85% R.H. (no condensation) Air Pressure 540 hPa to 1060 hPa Transportation / Storage Environmental Requirements			

AC adapter

Power		
Input	100 - 240 VAC ± 10%, 50 / 60 Hz, 3.0 A	
Maximum Power	196 W or less	
Consumption		
Physical Specifications		
External dimensions	223.0 mm × 37.0 mm × 88.5 mm	
$(W \times H \times D)$		
Net Weight	Approx. 1.1 kg	
Operating Environmental Re	equirements	
Temperature	0 °C to 35 °C (-4 °F to 140 °F)	
Humidity	20% to 85% R.H. (no condensation)	
Air Pressure	540 hPa to 1060 hPa	
Transportation / Storage Environmental Requirements		
Temperature	-20 °C to 60 °C (-4 °F to 140 °F)	
Humidity	10% to 90% R.H. (no condensation)	
Air Pressure	540 hPa to 1060 hPa	

4-2. Displayable Input Signals

√: Supported

-: Not Supported

Resolution	Scan Format	Vertical Scan Frequency (Hz)	DisplayPort	HDMI	DVI-D	SDI
640 × 480	Progressive	59.940	√			-
800 × 600	Progressive	60.317			\checkmark	-
1024 × 768	Progressive	60.004			\checkmark	-
1280 × 800	Progressive	59.810	\checkmark		\checkmark	-
1280 × 960	Progressive	60.000			\checkmark	-
1280 × 1024	Progressive	60.020	\checkmark			-
1600 × 1200	Progressive	60.000			\checkmark	-
1920 × 1200	Progressive	59.950	\checkmark			-
1280 × 720	Progressive	60.000	-		\checkmark	
1280 × 720	Progressive	59.940	-		\checkmark	
1280 × 720	Progressive	25.000	-		\checkmark	
1280 × 720	Progressive	29.970	-		\checkmark	
1280 × 720	Progressive	30.000	-			
1920 × 1080	Progressive	60.000			\checkmark	
1920 × 1080	Progressive	59.940			\checkmark	
1920 × 1080	Interlaced	60.000	-		\checkmark	
1920 × 1080	Interlaced	59.940	-		\checkmark	
720 × 480	Progressive	60.000	-	√*1	√*1	-
720 × 480	Progressive	59.940	-	√*1	√*1	-
720 × 576	Progressive	50.000	-	√*1	√*1	-
1280 × 720	Progressive	50.000	-		\checkmark	
1920 × 1080	Progressive	50.000			\checkmark	
1920 × 1080	Interlaced	50.000	-		\checkmark	
1920 × 1080	Progressive	24.000	-	-	\checkmark	
1920 × 1080	Progressive	23.976	-	-	\checkmark	
1920 × 1080	Progressive	25.000	-		\checkmark	
1920 × 1080	Progressive	30.000	-			
1920 × 1080	Progressive	29.970	-		\checkmark	
3840 × 2160	Progressive	30.000	-		-	√*2
3840 × 2160	Progressive	29.970	-		-	√*2
3840 × 2160	Progressive	25.000	-		-	√*2
3840 × 2160	Progressive	24.000	-	-	-	√*2
3840 × 2160	Progressive	23.976	-	-	-	√*2
3840 × 2160	Progressive	60.000	√*3	√*3, *4	-	√*2
3840 × 2160	Progressive	59.940	√*3	√ [*] 3, *4	-	√*2
3840 × 2160	Progressive	50.000	√*3	√*3, *4	-	√*2

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*1 Not compatible with 16:9 aspect ratio displays.

*2 Only compatible with SDI 1 terminals.

*3 Only compatible with YCbCr422 10 bit displays.

*4 Compatible with YCbCr420.

4-3. Optional Accessories

The following accessories are available separately.

Stand

HST04

Appendix

Medical Standard

- It is necessary to ensure that the final system is in compliance with IEC60601-1 requirements.
- Power-supplied equipment can emit electromagnetic waves that could influence, limit or result in malfunction of the monitor. Install the equipment in a controlled environment in which such effects are avoided.

Classification of Equipment

- Electric shock protection type: Class I
- EMC class: IEC60601-1-2 Group 1 Class A
- Classification of medical device (EU): Class I
- Mode of operation: Continuous
- IP class: IP32 (The IPx2 protection level is effective when the monitor is installed so it cannot be put at a slant.)

EMC Information

The EX3242 has the capability to displays medical images properly.

Environments of Intended Use

The EX3242 is intended to be used in the following environments.

• Professional healthcare facility environments such as clinics and hospitals (including use in the vicinity of high-frequency surgical equipment such as electrosurgical knives).

The following environments are not suitable for using the EX3242.

- · Home healthcare environments
- In the vicinity of short-wave therapy equipment
- · RF shielded room of the medical equipment systems for MRI
- In shielded location Special environments
- · Installed in vehicles including ambulances
- · Other special environments

The EX3242 requires special precautions regarding EMC and need to be installed. You need to carefully read EMC Information and the "PRECAUTIONS" section in this document, and observe the following instructions when installing and operating the product.

The EX3242 should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the equipment or system should be observed to verify normal operation in the configuration in which it will be used.

When using a portable RF communication equipment, keep it 30 cm (12 inches) or more away from any part, including cables, of the EX3242. Otherwise, degradation of the performance of this equipment could result.

Anyone who connects additional equipment to the signal input part or signal output parts, configuring a medical system, is responsible that the system complies with the requirements of IEC60601-1-2.

Images may be distorted if the product is used near a device such as high-frequency surgical equipment. Check in advance to ensure that no problems occur during use.

Do not touch the signal input/output connectors while using the EX3242. It may affect the displayed image.

Be sure to use cables that satisfy the following requirements.

Use of cables that do not satisfy the requirements could result in increased electromagnetic emissions, reduced electromagnetic immunity of this equipment, and incorrect operation.

Cables	Max. Cable Length	Shielding
AC Cord	2 m	Unshielded
DC Cord	17.5 m	Shielded
BNC Cable (SDI)	30 m	Shielded
DVI Cable	5 m	Shielded
DisplayPort Cable	5 m	Shielded
HDMI Cable	5 m	Shielded
RS-232C Cable	5 m	Shielded
USB Cable (For maintenance)	5 m	Shielded

Technical Specifications

Electromagnetic emissions

The EX3242 is intended for use in the electromagnetic environment specified below. The customer or the user of the EX3242 should assure that it is used in such an environment. Emission test Compliance **Electromagnetic environment - Guidance RF** emissions Group 1 The EX3242 uses RF energy only for its internal function. CISPR11 Therefore, its RF emission are very low and are not likely to cause any interference in nearby electronic equipment. The EMISSIONS characteristics of the EX3242 make it suitable for use in industrial **RF** emissions Class A CISPR11 areas and hospitals (CISPR11 class A). If it is used in a residential environment (for which CISPR11 class B is normally required) the EX3242 might not offer adequate Harmonic emissions Class D protection to radio-frequency communication services. The user might need to take IEC61000-3-2 mitigation measures, such as relocating or re-orienting the equipment. Voltage fluctuations / Complies flicker emissions IEC61000-3-3

Electromagnetic immunity

The EX3242 has been tested at the following compliance levels (C) according to the testing requirements (T) for Professional healthcare facility environments specified in IEC60601-1-2.

The customer or the user of the EX3242 should assure that EX3242 is used in the following environment.

Immunity test	Test level (T)	Compliance level (C)	Electromagnetic environment - Guidance
Electrostatic discharge (ESD) IEC61000-4-2	±8 kV contact discharge ±15 kV air discharge	±8 kV contact discharge ±15 kV air discharge	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transients / bursts IEC61000-4-4	±2 kV power lines ±1 kV input / output lines	±2 kV power lines ±1 kV input / output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surges IEC61000-4-5	±1 kV line to line ±2 kV line to ground	±1 kV line to line ±2 kV line to ground	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC61000-4-11	0 % U _T (100 % dip in U _T) 0.5 cycles and 1 cycle 70 % U _T (30 % dip in U _T) 25 cycles at 50 Hz 0 % U _T (100 % dip in U _T) 250 cycles at 50 Hz	0 % U _T (100 % dip in U _T) 0.5 cycles and 1 cycle 70 % U _T (30 % dip in U _T) 25 cycles at 50 Hz 0 % U _T (100 % dip in U _T) 250 cycles at 50 Hz	Mains power quality should be that of a typical commercial or hospital environment. If the user of the EX3242 requires continued operation during power mains interruptions, it is recom- mended that the EX3242 be powered from an uninterruptible power supply or a battery.
Power frequency magnetic fields IEC61000-4-8	30 A/m (50 / 60 Hz)	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. The product should be kept at least 15 cm away from the source of power frequency magnetic fields during use.

	immunity				
			cording to the testing requirements (T) for		
	care facility environments				
The customer or the user of the EX3242 should assure that EX3242 is used in the following environment.					
Immunity test	Test level (T)	Compliance level (C)	Electromagnetic environment - Guidance		
			Portable and mobile RF communications equip- ment should be used no closer to any part of the EX3242, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance		
Conducted distur- bances induced by RF fields IEC61000-4-6	3 Vrms 150 kHz - 80 MHz	3 Vrms	d = 1.2√P		
	6 Vrms ISM bands between 150 kHz and 80 MHz ^{a)}	6 Vrms	d = 1.2√P		
Radiated RF fields IEC61000-4-3	3 V/m 80 MHz - 2.7 GHz	3 V/m	d = 1.2√P, 80 MHz - 800 MHz d = 2.3√P, 800 MHz - 2.7 GHz		
			Where "P" is the maximum output power rating of the transmitter in watts (W) according to the trans mitter manufacturer and "d" is the recommended separation distance in meters (m).		
			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey ^{b)} , should be less than the compliance level in each frequency range ^{c)} .		
			Interference may occur in the vicinity of equipmer marked with the following symbol.		
			((•))		
Note 1 U_T is the a	a.c. mains voltage prior to ap	oplication of the test level.			
Note 2 At 80 MHz	z and 800 MHz, the higher fr	equency range applies.			
-		•	RF fields or radiated RF fields may not apply in all		
			n and reflection from structures, objects and people		
· · ·	rial, scientific and medical) t MHz, 26.957 MHz to 27.283		nd 80 MHz are 6.765 MHz to 6.795 MHz, 13.553 0.70		
 Field strengths tradios, amateur assess the electered. If the mean level above, the 	rom fixed transmitters, such radio, AM and FM radio bro tromagnetic environment du sured field strength in the lo	as base stations for radio adcast and TV broadcast e to fixed RF transmitters, cation in which the EX324 d to verify normal operatio	 (cellular/cordless) telephones and land mobile cannot be predicted theoretically with accuracy. To an electromagnetic site survey should be consid- 2 is used exceeds the applicable RF compliance n. If abnormal performance is observed, additional 		

Recommended separation distances between portable or mobile RF communication equipment and the EX3242

The EX3242 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the EX3242 can suppress electromagnetic interference by maintaining a minimum distance (30 cm) between portable and mobile RF communications equipment (transmitters) and the EX3242. The EX3242 has been tested at the following compliance levels (C) for the required test levels (T) of immunity to the proximity electromagnetic fields in the following RF communication services.

Test frequency (MHz)	Bandwidth ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Test level (V) ^{c)} (V/m)	Compliance level (C) (V/m)
385	380 - 390	TETRA 400	Pulse modulation ^{b)} 18 Hz	27	27
450	430 - 470	GMRS 460, FRS 460	FM ±5 kHz deviation 1 kHz sine	28	28
710	704 - 787	LTE Band 13, 17	Pulse modulation ^{b)}	9	9
745	1		217 Hz		
780					
810	800 - 960	GSM 800 / 900,	Pulse modulation ^{b)}	28	28
870		TETRA 800,	18 Hz		
930	-	iDEN 820 CDMA 850, LTE Band 5			
1720	1700 - 1990	GSM 1800;	Pulse modulation ^{b)}	28	28
1845	1	CDMA 1900;	217 Hz		
1970		GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS			
2450	2400 - 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation ^{b)} 217 Hz	28	28
5240	5100 - 5800	WLAN 802.11 a/n	Pulse modulation b)	9	9
5500	1		217 Hz		
5785	1				
a) For some s	ervices, only the up	link frequencies are inc	luded.	1	1
,		a 50 % duty cycle squa			
,		h maximum power and		stance.	

The customer or the user of the EX3242 can help prevent interference caused by the proximity magnetic field by maintaining a minimum distance (15 cm) between RF transmitters and the EX3242. The EX3242 has been tested at the following compliance level (C) for the requirement test level (T) of proximity magnetic field immunity.

Test frequency	Modulation	Test level (T) (A/m)	Compliance level (C) (A/m)
134.2 kHz	Pulse modulation ^{a)} 2.1 kHz	65	65
13.56 MHz	Pulse modulation ^{a)} 50 kHz	7.5	7.5
a) The carrier is modulated using a 50 % duty cycle square wave signal.			

The EX3242 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. For other portable and mobile RF communication equipments (transmitters), minimum distance between portable and mobile RF communications equipment (transmitters) and EX3242 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter (W)		Separation distance according to frequency of transmitter (m)			
		150 kHz – 80 MHz d = 1.2√P	80 MHz – 800 MHz d = 1.2√P	800 MHz – 2.7 GHz d = 2.3√P	
0.01		0.12	0.12	0.23	
0.1		0.38	0.38	0.73	
1		1.2	1.2	2.3	
10		3.8	3.8	7.3	
100		12	12	23	
can be esti	imated using the e		above, the recommended separa ncy of the transmitter, where "P" tter manufacturer.	. ,	
Note 1	At 80 MHz and 800 MHz, the separation distance for a higher frequency range must be applied.				
	These guidelines regarding conducted disturbances induced by RF fields or radiated RF fields may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.				

Warning for Radio interference

For U.S.A., Canada Only			
FCC Supplier's Declaration of Conformity			
We, the Responsible Party	EIZO Inc.		
	5710 Warland Drive, Cypress, CA 90630		
	Phone: (562) 431-5011		
declare that the product	Trade name: EIZO		
	Model: CuratOR EX3242		

is in conformity with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING!

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 required to correct the interference at his own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note

Use the specified cable below so as to keep interference within the limits of a Class A digital device.

- AC Cord
- Shielded Signal Cable

Canadian Notice

This Class A information technology equipment complies with Canadian ICES-003. Cet équipement informatique de classe A est conforme à la norme NMB-003 du Canada.

For Australia, New Zealand, etc Only

Warning

Operation of this equipment in a residential environment could cause radio interference.

Warnung

Der Betrieb dieses Geräts in einer Wohnumgebung könnte Funkstörungen verursachen.

Avertissement

L'utilisation de cet équipement dans une zone résidentielle pourrait provoquer des interférences radio.



EIZD Corporation



153 Shimokashiwano, Hakusan, Ishikawa 924-8566 Japan

EIZO GmbH EC REP Carl-Benz-Straße 3, 76761 Rülzheim, Germany

艺卓显像技术(苏州)有限公司

中国苏州市苏州工业园区展业路8号中新科技工业坊5B

EIZD Limited UK Responsible Person

1 Queens Square, Ascot Business Park, Lyndhurst Road, Ascot, Berkshire, SL5 9FE, UK

Moosacherstrasse 6, Au, CH-8820 Wädenswil, Switzerland

www.eizoglobal.com

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