

# Instructions for Use

# RadiForce® GX560

**Monochrome 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".
- For the latest product information including the "Instructions for Use", refer to our web site : http://www.eizoglobal.com

#### **SAFETY SYMBOLS**

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

	WARNING		CAUTION
$\triangle$	Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.	$\triangle$	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".		
0	Indicates a mandatory action. For example, imeans "Ground the unit".		

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.

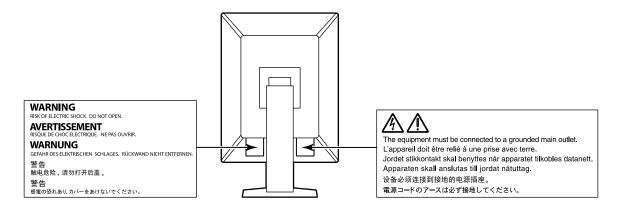
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# **PRECAUTIONS**

### **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 personal safety and proper maintenance, please read carefully this section and the caution statements on the monitor.

#### **Location of the Caution Statements**



#### Symbols on the unit

Symbol		This symbol indicates	
	Main Power Switch: Press to turn the monitor's main power off.		
	Main Power Switch:	Press to turn the monitor's main power on.	
Ф	Power button:	Press to turn the monitor's power on or off.	
~	Alternating current		
<u>A</u>	Alerting electrical hazard		
$\triangle$	CAUTION:	Refer to "SAFETY SYMBOLS" (page 2).	
Z	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		
$\sim$	Date of manufacture		
RXonly	Caution: Federal law (USA) restricts this device to sale by or on the order of a licensed healthcare practitioner.		

# WARNING

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



#### 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.



#### Place the unit at a sturdy and stable place.

A unit placed on an inadequate surface may fall and result in 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 steam comes 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 inflammable gas.
- · Do not place in environments with corrosive gases (such as sulfur dioxide, hydrogen sulfide, nitrogen dioxide, chlorine, ammonia, and ozone)
- · Do not place in environments with dust, components that accelerate corrosion in the atmosphere (such as sodium chloride and sulfur), conductive metals, and so on

#### 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

#### To disconnect the power cord, grasp the plug firmly and pull.

Tugging on the cord may damage 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.

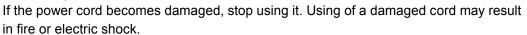
- The unit is designed for use with a specific voltage only. Connection to another voltage than specified in this "Instructions for Use" may cause fire, electric shock, or equipment damage. Power supply: 100-240Vac 50/60Hz
- Do not overload your power circuit, as this may result in fire or electric shock.





#### Handle the power cord with care.

- Do not place the cord underneath the unit or other heavy objects.
- Do not pull on or tie the cord.





#### 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 and power cord if it begins to thunder.

Touching them may result in electric shock.



# When attaching an arm stand, please refer to the user's manual of the arm stand and install the unit securely.

Otherwise, the unit may become detached, resulting in injury and/or equipment damage. Before installation, make sure that desks, walls, or any other installation surface has adequate mechanical strength. If the unit falls, please 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. When reattaching the tilt stand, please use the same screws and tighten them securely.

#### 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.



# **CAUTION**

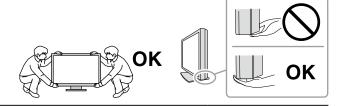
#### Handle with care when carrying the unit.

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.

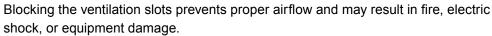
- When carrying, grasp and firmly hold the unit as shown in the illustration below.
- Monitors of size 30 inches and above are heavy. When unpacking and/or carrying the monitor, ensure at least two
  people are utilized.

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.





#### Do not touch the plug 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.

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

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 cord from the wall socket after turning off the power switch for the safety and the power conservation.

Dispose of this product in accordance with the laws of the locality or country of residence.

#### 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.

# **Notice for This Monitor**

### **Intended Use**

This product is indicated for use in displaying radiological images (including full-field digital mammography and digital breast tomosynthesis) for review, analysis, and diagnosis by trained medical practitioners.

#### Attention

- Mammographic images with lossy compression must not be reviewed for primary image interpretations.
   Mammographic images may only be interpreted using an FDA cleared display that meets technical specifications reviewed and accepted by FDA.
- · This product may not be covered by warranty for uses other than those described in this manual.
- The specifications noted in this manual are only applicable when the following are used:
  - Power cords provided with the product
  - Signal cables specified by us
- · Only use optional products manufactured or specified by us with this product.

# **Precautions for Use**

- Otherwise, parts (such as the LCD panel) may deteriorate in the long-term. 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.
- It takes about a few minutes for the image quality to reach acceptable level. Please wait a few minutes
  or more after the monitor power has been turned on or the monitor has recovered from the power saving
  mode, and then view images for diagnosis.
- 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.
- An afterimage may appear even after a short time 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.
- 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 continually applied to the panel, it may deteriorate or damage
  your panel. (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.
- Do not touch the built-in calibration sensor (Integrated Front Sensor). Doing so may reduce the measurement accuracy or result in equipment damage.
- Depending on the environment, the value measured by the built-in illuminance sensor may differ from the value shown on a stand-alone illuminometer.
- When the monitor is cold and brought into a room or the room temperature goes up quickly, dew
  condensation may occur on the interior and exterior surfaces of the monitor. 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.

# To Use the Monitor for a Long Time

#### Quality control

- The display quality of monitors is affected by the quality level of input signals and the degradation of
  the product. Perform visual checks and periodic constancy tests to comply with medical standards /
  guidelines according to your application, and carry out calibration as necessary. Use of the RadiCS
  monitor quality control software enables you to perform high-level quality control that meets medical
  standards / guidelines.
- It takes about 15 minutes for the monitor display to stabilize. Please wait 15 minutes or more after the monitor power has been turned on or the monitor has recovered from the power saving mode before performing various tests for quality control, calibration, or screen adjustment of the monitor.
- We recommend that monitors be set to the recommended level or lower to reduce changes in luminosity caused by long-term use and maintain stable brightness.
- To adjust measurement results of the integrated calibration sensor (Integrated Front Sensor) to those of an EIZO external sensor (UX1 or UX2 sensor) that is sold separately, perform correlation between the Integrated Front Sensor and the external sensor using RadiCS / RadiCS LE. Periodical correlation allows you to maintain the measurement accuracy of the Integrated Front Sensor at a level equivalent to that of the external sensor.

#### Attention

 The display status of the monitor may change unexpectedly due to an operating error or unexpected setting change. Using the monitor with the control buttons locked is recommended after adjusting the screen of the monitor. For details on how to set, refer to the Installation Manual (on the CD-ROM).

### 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	
Chlorhexidine	Hibitane	
Benzalkonium chloride	Welpas	
Alkyldiaminoethylglycine	Tego 51	
Glutaral	Sterihyde	

#### 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, and abrasive cleaner, which may damage the cabinet or panel.
- Do not let chemicals come into direct contact with the monitor.

#### Note

• The optional ScreenCleaner is recommended for cleaning the cabinet and panel surface.

# To Use the Monitor Comfortably

- Staring at the monitor for a long time tires your eyes. Take a 10-minute rest every hour.
- Look at the screen from a proper distance and from a proper angle.

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# **Chapter 1** Introduction

Thank you very much for choosing an EIZO monochrome LCD monitor.

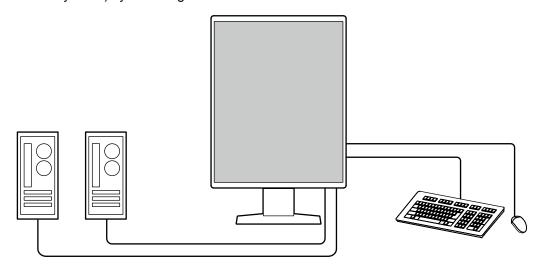
#### 1-1. Features

#### Perfect for displaying breast cancer examination images

Ideal for producing the level of clarity and visibility demanded for displaying breast tomosynthesis and mammography images, with a maximum high brightness of 2500 cd/m² and a 1700 : 1 high contrast ratio.

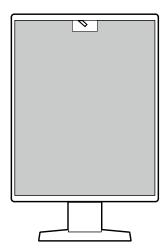
#### Space saving

Equipped with two USB upstream ports. Two PCs can use a single set of USB devices (such as a mouse or keyboard) by switching between PCs.



#### Quality control

This monitor has a built-in calibration sensor (Integrated Front Sensor). This sensor enables the monitor to perform calibration (SelfCalibration) and Grayscale Check independently.



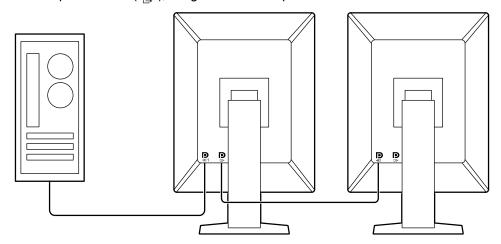
Using RadiCS LE that is attached to the monitor, you can manage history related to the monitor, and the SelfCalibration target and execution schedule.

The RadiCS monitor quality control software enables you to perform quality control that meets medical standards / guidelines.

#### Simple wiring

In addition to a DisplayPort input terminal, an output terminal is also provided.

• From the output terminal ( ), a signal can be output to a different monitor.



#### Monitor operation from the mouse and keyboard

Using the RadiCS / RadiCS LE monitor quality control software, you can perform the following monitor operations using the mouse and keyboard:

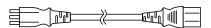
- Switching CAL Switch modes
- · Switching input signals
- Function that assigns any CAL Switch mode to a part of the screen and displays an image (Pointand-Focus)
- Switching PCs that use USB devices (Switch-and-Go)
- Entering power saving mode (Backlight Saver)

# 1-2. Package Contents

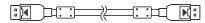
Check that all of the following items are contained in the package. If any of these are missing or damaged, contact your dealer or local EIZO representative listed on the attached sheet.

#### Note

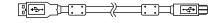
- It is recommended that the box and packing materials be stored so that they can be used to move or transport this product.
  - Monitor
  - Power cord



 Digital signal cable: PP300 x 2 DisplayPort - DisplayPort



• USB cable: UU300 x 2



- EIZO LCD Utility Disk (CD-ROM)
- · Instructions for Use

### **● EIZO LCD Utility Disk**

The CD-ROM contains the following items. Refer to "Readme.txt" on the disk for software startup procedures or file reference procedures.

- Readme.txt file
- RadiCS LE monitor quality control software (for Windows)
- User's Manual

Monitor Installation Manual

RadiCS LE User's Manual

· Outline dimensions

#### RadiCS LE

RadiCS LE enables you to perform the following quality control and monitor operations. For more information about the software or setup procedures, refer to RadiCS LE User's Manual.

#### **Quality control**

- · Executing calibration
- · Displaying test results in a list and creating a test report
- · Setting the SelfCalibration target and execution schedule

#### **Monitor operations**

- · Switching CAL Switch modes
- · Switching input signals
- Function that assigns any CAL Switch mode to a part of the screen and displays an image (Pointand-Focus)
- Switching PCs that use USB devices (Switch-and-Go)
- · Entering power saving mode (Backlight Saver)

#### Attention

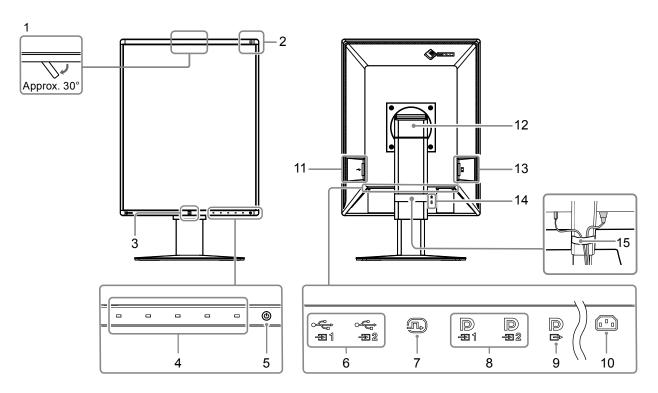
• The specifications of RadiCS LE are subject to change without notice. The latest version of RadiCS LE is available for download from our web site: http://www.eizoglobal.com

#### To use RadiCS LE

For information on how to install and use RadiCS LE, refer to RadiCS LE User's Manual (on the CD-ROM).

When using RadiCS LE, connect the monitor to your PC using the supplied USB cable. For more information about how to connect the monitor, see "2-2. Connecting Cables" (page 15).

# 1-3. Controls and Functions



1. Integrated Front Sensor	This sensor is used to perform calibration and Grayscale Check.
(Movable)	
2. Ambient Light Sensor	This sensor measures environmental illumination. Environmental illuminance
	measurement is performed using the RadiCS / RadiCS LE quality control software.
3. Presence Sensor	This sensor detects movements made by a person in front of the monitor.
4. Operation switches	Displays the operation guide. Set menus according to the operation guide.
5. () switch	Turns the power on or off.
	The switch indicator is lit when you turn the power on. The indicator color differs
	depending on the monitor's operation status.
	Green: Monitor in operation, Orange: Power saving mode,
	Off: Main power / power off
6. USB upstream port	Connect this port to the PC when you use software that needs a USB connection or
	connect a USB device (peripheral device that supports USB) to the USB downstream
	port.
7. DVI-D connector	Connect to a PC.
8. DisplayPort input	For more information, see "2-2. Connecting Cables" (page 15).
connector	
9. DisplayPort output	To set up a daisy-chain connection, connect the cable to the DisplayPort input
connector	connector of another monitor. For more information, see "2-2. Connecting Cables"
	(page 15).
10. Power connector	Connects the power cord.
11. USB downstream port	Connect it to a USB device. To set up a daisy-chain connection, connect the cable
	to the USB upstream port of another monitor. For more information, see "2-2.
	Connecting Cables" (page 15).
12. Stand	The height and angle can be adjusted.
13. Main power switch	Turns the main power on or off.
	: On, ○ : Off,
14. Security lock slot	Complies with Kensington's MicroSaver security system.
15. Cable holder	Holds the monitor cables.

# **Chapter 2** Installation / Connection

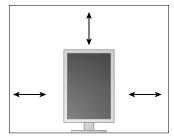
# 2-1. Before Installing the Product

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

If you place this product on a lacquer-coated desk, the color may adhere to the bottom of the stand due to the composition of the rubber. Check the desk surface before use.

### Installation Requirements

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



#### Attention

• Position the monitor so that there is no light to interfere with the screen.

# 2-2. Connecting Cables

#### Attention

- · Check that the monitor and the PC are powered off.
- When replacing the current monitor with this monitor, refer to "4-2. Compatible Resolutions" (page 21) to change the PC settings for resolution and vertical scan frequency to those that are available for this monitor, before connecting the PC.

#### 1. Turn the monitor screen 90° clockwise.

The monitor is installed in landscape orientation before shipment.

#### Attention

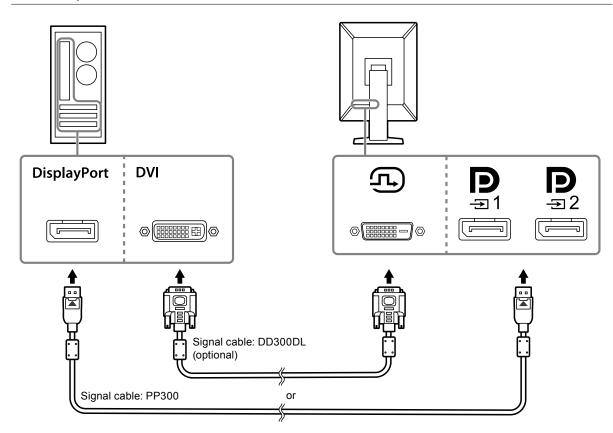
· Before turning the monitor screen, raise the monitor to its highest position.

### 2. Connect signal cables.

Check the shapes of the connectors, and connect the cables. After connecting the DVI cable, tighten the fasteners to secure the connector.

#### Attention

- The monitor has two types of DisplayPort connectors: input and output. When connecting the monitor to a PC, connect the cable to the input connector.
- When using a daisy-chain connection, connect the cable to the input connector
- When connecting to multiple PCs, switch the input signal. For details, refer to the Installation Manual (on the CD-ROM).

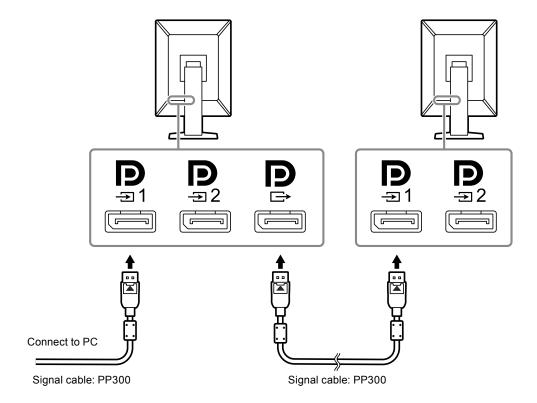


#### When connecting other monitors using a daisy-chain connection

Output the signal input into  $\frac{\mathbf{p}}{=1}$  to another monitor.

#### Attention

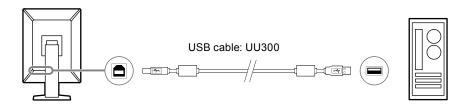
- · Visit the EIZO website for information about monitors and graphic boards that can be used for the daisychain connection: http://www.eizoglobal.com
- When using a daisy-chain connection, connect the cable to the input connector To set up a daisy-chain connection, you need to select "Signal Format" "DisplayPort1" on the Administrator Settings menu, and set "Version" to "1.2". For details, refer to the Installation Manual (on the CD-ROM).
- Remove the cap before connecting the signal cable.



#### 3. Plug the power cord into a power outlet and the power connector on the monitor.

Insert the power cord fully into the monitor.

# **4.** When you use RadiCS / RadiCS LE or connect a USB device (peripheral device that supports USB) to the monitor, connect the USB cable to the monitor's USB upstream port and the PC.

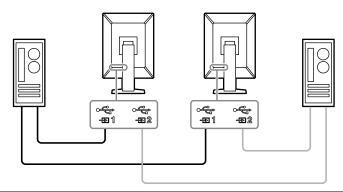


#### Attention

- Connect a PC installed with RadiCS / RadiCS LE to ⊕1 to perform monitor quality control.
- A cap is attached to  $\frac{1}{2}$  prior to shipment. Remove the cap when using  $\frac{1}{2}$ .

#### Note

- Switching between PCs that use USB devices can be performed by connecting two PCs to two monitors as in the following figure.
- For details on how to switch PCs that use USB devices, refer to the Installation Manual (on the CD-ROM).



# 2-3. Turning On the Power

### 1. Touch 1 to turn on the power to the monitor.

The power switch indicator of the monitor lights up green.

If the indicator does not light up, see "Chapter 3 No-Picture Problem" (page 19).

#### Note

• To find the location of the power switch when the monitor power is shut off, touch any of the buttons besides 1 to make the 1 indicator flash.

#### 2. Turn on the PC.

The screen image appears.

If an image does not appear, refer to "Chapter 3 No-Picture Problem" (page 19) for additional advice.

#### Attention

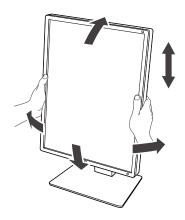
• For the maximum power saving, it is recommended that the Power button be turned off. When not using the monitor, you can turn off the main power supply or disconnect the power plug so that the power is cut completely.

#### Note

- In order to maximize the monitor's lifespan by impeding brightness degradation and to reduce power consumption, carry out the following:
  - Use the power saving function of the PC or monitor.
- Turn off the monitor after using it.

# 2-4. Adjusting the Screen Height and Angle

Hold left and right edge of the monitor with both hands, and adjust the screen height, tilt and swivel of the screen to the best condition for working.



#### Attention

- After the adjustment is finished, make sure that the cables are correctly connected.
- · After adjusting the height and angle, pass the cables through the cable holder.

# **Chapter 3 No-Picture Problem**

Problem	Possible cause and remedy
1. No picture	Check whether the power cord is connected properly.
Power switch indicator does not light up	Turn the main power switch on.
	• Touch 🖒.
	Turn off the main power, and then turn it on again.
Power switch indicator lights up: Green	Try increasing the "Brightness" and "Contrast" ("4-Text")
	mode only) values in the setting menu. For details, refer to the Installation Manual (on the CD-ROM).
	Turn off the main power, and then turn it on again.
Power switch indicator lights up: Orange	Switch the input signal. For details, refer to the Installation
Power switch indicator lights up. Orange	Manual (on the CD-ROM).
	Move the mouse or press any key on the keyboard.
	Check whether the PC is turned on.
	If the Presence Sensor is set to "On", the monitor may be in
	power saving mode. Try moving closer to the monitor.
	Check whether the signal cable is properly connected.
	Connect to and when selecting "DisplayPort1", and to 2 when selecting "DisplayPort2" in the input signal. Use for output
	when using a daisy-chain connection.
	Turn off the main power, and then turn it on again.
Power switch indicator blinks: Orange,	Connect via the signal cable specified by EIZO. Turn off the
Green	main power, and then turn it on again.
	When connected to DisplayPort1, try switching the
	DisplayPort version. For details, refer to the Installation
	Manual (on the CD-ROM).
2. The message below appears.	These messages are displayed when the signal is not input
	properly even if the monitor is functioning properly.
This message appears when no signal is input.	The message shown left may appear, because some PCs do not output the signal immediately after power-on.
Example:	Check whether the PC is turned on.
	Check whether the signal cable is connected properly.
DisplayPort 1	Switch the input signal. For details, refer to the Installation
	Manual (on the CD-ROM).
No Signal	Check whether the signal cable is properly connected.      Connected Power and attention "Display Power and to Power
	Connect to when selecting "DisplayPort1", and to selecting "DisplayPort2" in the input signal. Use for output
	<ul><li>when using a daisy-chain connection.</li><li>Turn off the main power, and then turn it on again.</li></ul>
The message indicates that the input signal	Check whether the PC is configured to meet the resolution
is out of the specified frequency range.	and vertical scan frequency requirements of the monitor (see
Example:	"4-2. Compatible Resolutions" (page 21)).
	Reboot the PC.
DisplayPort 1	Select an appropriate setting using the graphics board's
	utility. For more information, refer to the User's Manual of the
Signal Error	graphics board.

# **Chapter 4** Specifications

# 4-1. Specifications List

Туре		GX560: Anti-Glare GX560-AR: Anti-Reflection		
<u> </u>		Monochrome (IPS)		
2021 4.101	Backlight	LED		
	Size	54.1 cm (21.3 inch)		
	Resolution (H x V)	2048 × 2560		
	Display Size (H x V)	337.9 mm × 422.4 mm		
	Pixel Pitch	0.165 mm		
	Grayscale Tones	Simultaneous display of 1,204 tones from a palette of 16,369		
	Grayscale Tories	("Sub Pixel Drive": set to "OFF")		
		Simultaneous display of 1,204 tones from a palette of 8,185		
		"Sub Pixel Drive" set to "ON")		
	Viewing Angles (H / V, typical)	178° / 178°		
	Recommended Brightness	600 cd/m <sup>2</sup> , 1000 cd/m <sup>2</sup>		
	Response Time (typical)	12 ms (black -> white -> black)		
Video Signals	Input Terminals	DisplayPort × 2, DVI-D (dual link) × 1		
_	Output Terminal	DisplayPort × 1		
	Horizontal scanning frequency	31 kHz - 135 kHz		
	Vertical scan frequency	DisplayPort: 59 Hz - 61 Hz (720 × 400 : 69 Hz - 71 Hz, 2560 × 2048 : 23 Hz - 51 Hz)		
		DVI: 59 Hz - 61 Hz (720 × 400 : 69 Hz - 71 Hz, 2560 × 2048 : 24 Hz - 51 Hz)		
	Frame Synchronization mode	23.5 Hz - 25.5 Hz, 47.0 Hz - 51.0 Hz		
	Dot clock	DisplayPort: 25 MHz - 290 MHz		
		DVI: 25 MHz - 165 MHz		
		165 MHz - 290 MHz (Dual link)		
USB	Port	Upstream port × 2, downstream port × 2		
	Standard	USB Specification Revision 2.0		
Power	Input	100 - 240 VAC ±10 %, 50 / 60 Hz, 0.80 - 0.35A		
	Maximum Power Consumption	79 W or less		
	Power Save Mode	1.0 W or less*1		
	Standby Mode	1.0 W or less*2		
Physical Specifications	Dimensions ( W × H × D )	354.5 mm × 476.0 mm - 566.0 mm × 200.0 mm (Tilt: 0°) 354.5 mm × 504.7 mm - 594.7 mm × 264.1 mm (Tilt: 30°)		
	Dimensions ( W × H × D ) (Without Stand)	354.5 mm × 452.0 mm × 78.0 mm		
	Net Weight	Approx. 8.0 kg		
	Net Weight	Approx. 5.2 kg		
	(Without Stand)			
	Height Adjustment Range	· · · · · · · · · · · · · · · · · · ·		
	Tilt	Up 30°, down 5°		
	Swivel	70°		
	Rotation	90° (Counterclockwise rotation from portrait to landscape		
		orientation)		

Operating	Temperature	0 °C - 35 °C (32 °F - 95 °F)
Environmental	Humidity	20 % - 80 % R.H. (no condensation)
Requirements	Air Pressure	540 hPa - 1060 hPa
Transportation	Temperature	-20 °C - 60 °C (-4 °F - 140 °F)
/ Storage	Humidity	10 % - 90 % R.H. (no condensation)
Environmental	Air Pressure	200 hPa - 1060 hPa
Requirements		

<sup>\*1</sup> When DisplayPort input is used, the USB upstream port is not connected, "Auto Input Detection": "Off", "Power Save": "High", "DP Power Save": "On", "DisplayPort1" - "Version": "1.1", and no external load is connected

# 4-2. Compatible Resolutions

The monitor supports the following resolutions.

√: Supported

Resolution	Vertical scan	DisplayPort		DVI	
(H x V)	frequency	Portrait	Landscape	Portrait	Landscape
720 × 400	70 Hz	V	V	√	√
640 × 480	60 Hz	V	V	√	√
800 × 600	60 Hz	V	V	√	√
1024 × 768	60 Hz	V	V	√	√
1280 × 1024	60 Hz	V	√	√	√
1600 × 1200	60 Hz	V	√	√	√
2560 × 2048	50 Hz	-	√*1	-	√*3
2048 × 2560	50 Hz	√*1	-	√*3	-
2560 × 2048	48 Hz	-	√*2	-	-
2048 × 2560	48 Hz	√*2	-	-	-
2560 × 2048	25 Hz	-	-	-	√
2048 × 2560	25 Hz	-	-	V	-

<sup>\*1</sup> When "DisplayPort1" input and "version" is "1.1", or when "DisplayPort2" input

# 4-3. Optional Accessories

The following accessories are available separately.

For the latest information about the optional accessories and information about the latest compatible graphics board, refer to our web site. http://www.eizoglobal.com

Calibration Kit	EIZO "RadiCS UX2" Ver. 4.6.4 or later
	EIZO "RadiCS Version Up Kit" Ver. 4.6.4 or later
Network QC Management Software	EIZO "RadiNET Pro" Ver. 4.6.4 or later
	EIZO "RadiNET Pro Lite" Ver. 4.6.4 or later
Comfort Light for Reading Rooms	EIZO "RadiLight"
Panel protector	EIZO "RP-918"
Cleaning Kit	EIZO "ScreenCleaner"
Stand bracket for thin client or mini-PC	EIZO "PCSK-R1"
Signal cable (DVI-D - DVI-D)	DD200DL, DD300DL

<sup>\*2</sup> When the USB upstream port is not connected, "DP Power Save": "On", "DisplayPort1" - "Version": "1.1", no external load is connected

<sup>\*2</sup> When "DisplayPort1" input and "version" is "1.2"

<sup>\*3</sup> A dual link signal only.

# **Appendix**

# **Medical Standard**

- It shall be assured that the final system is in compliance to IEC60601-1-1 requirement.
- · 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, where such effects are avoided.

#### **Classification of Equipment**

- Type of protection against electric shock : Class I - EMC class: EN60601-1-2:2015 Group 1 Class B - Classification of medical device (EU): Class I

- Mode of operation : Continuous

- IP Class: IPX0

### **EMC Information**

The RadiForce series has a performance that appropriately displays images.

#### **Environments of Intended Use**

The RadiForce series is intended to be used in Professional healthcare facility environments such as clinics and hospitals.

The following environments are not suitable for the RadiForce series to be used:

- · Home healthcare environments
- In the vicinity of high-frequency surgical equipments such as electrosurgical knives
- In the vicinity of short-wave therapy equipments
- RF shielded room of the medical equipment systems for MRI
- · In shielded location Special environments
- Installed in vehicles including ambulances.
- · Other special environment



### **WARNING**

The RadiForce series 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 RadiForce series 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 RadiForce series. 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 IEC/EN60601-1-2.

Be sure to use the cables attached to the product, or cables specified by EIZO.

Use of cables other than those specified or provided by EIZO of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and improper operation.

Cable	EIZO Designated	Max. Cable Length	Shielding	Ferrite Core
	Cables			
Signal cable (DisplayPort)	PP300 / PP200	3 m	Shielded	With Ferrite Cores
Signal cable (DVI)	DD300DL / DD200DL	3 m	Shielded	With Ferrite Cores
USB cable	UU300 / MD-C39	3 m	Shielded	With Ferrite Cores
Power cord (with earth)	-	3 m	Unshielded	Without Ferrite Cores

# **Technical Descriptions**

#### **Electromagnetic emissions**

The RadiForce series is intended for use in the electromagnetic environment specified below.

The customer or the user of the RadiForce series should assure that it is used in such an environment.

Emission test	Compliance	Electromagnetic environment - Guidance	
RF emissions CISPR11 / EN55011	Group 1	The RadiForce series uses RF energy only for its internal function.  Therefore, its RF emission are very low and are not likely to cause any interference in nearby electronic equipment.	
RF emissions CISPR11 / EN55011	Class B	The RadiForce series is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply	
Harmonic emissions IEC / EN61000-3-2	Class D	network that supplies buildings used for domestic purposes.	
Voltage fluctuations / flicker emissions IEC / EN61000-3-3	Complies		

### Electromagnetic immunity

The RadiForce series has been tested at the following compliance levels according to the testing requirements for professional healthcare facility environments defined in IEC / EN60601-1-2.

Customers and users of the RadiForce series must ensure that the RadiForce series is used in the following environments:

Immunity test	Test level for professional healthcare facility environments	Compliance level	Electromagnetic environment - Guidance
Electrostatic discharge (ESD) IEC / EN61000-4-2	±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 IEC / EN61000-4-4	±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 IEC / EN61000-4-5	±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 IEC / EN61000-4-11	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} 0~\%~U_{T}(100~\%~dip~in~U_{T})\\ 0.5~cycles~and~1~cycle\\ 70~\%~U_{T}~(30~\%~dip~in~U_{T})\\ 25~cycles\\ 0~\%~U_{T}~(100~\%~dip~in~U_{T})\\ 5~sec \end{array} $	Mains power quality should be that of a typical commercial or hospital environment. If the user of the RadiForce series requires continued operation during power mains interruptions, it is recommended that the RadiForce series be powered from an uninterruptible power supply or a battery.
Power frequency magnetic fields IEC / EN61000-4-8	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.

#### **Electromagnetic immunity**

The RadiForce series has been tested at the following compliance levels according to the testing requirements for professional healthcare facility environments defined in IEC / EN60601-1-2.

Customers and users of the RadiForce series must ensure that the RadiForce series is used in the following environments:

Immun	ity test	Test level for professional healthcare facility environments	Compliance level	Electromagnetic environment - Guidance	
				Portable and mobile RF communications equipment should be used no closer to any part of the RadiForce series, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.  Recommended separation distance	
Conducted disturbance by RF field IEC / EN6	es induced Is	3 Vrms 150 kHz - 80 MHz	3 Vrms	d = 1.2√P	
		6 Vrms ISM bands between 150 kHz and 80 MHz	6 Vrms		
Radiated RF fields IEC / EN61000-4-3		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 transmitter manufacturer and "d" is the recommended separation distance in meters (m).	
				Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey <sup>a)</sup> , should be less than the compliance level in each frequency range <sup>b)</sup> .	
				Interference may occur in the vicinity of equipment marked with the following symbol.	
				(( <u>w</u> ))	
Note 1	$U_{T}$ is the a.	c. mains voltage prior to app	olication of the test level.		
Note 2		and 800 MHz, the higher fre			
Note 3	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				
Note 4	The ISM bands between 150 kHz and 80 MHz are 6.765 MHz to 6.795 MHz, 13.553 MHz to 13.567 MHz, 26.957 MHz to 27.283 MHz, and 40.66 MHz to 40.70 MHz.				
radios To as consi comp	d strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile os, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be sidered. If the measured field strength in the location in which the RadiForce series is used exceeds the applicable RF appliance level above, the RadiForce series should be observed to verify normal operation. If abnormal performance is erved, additional measures may be necessary, such as reorienting or relocating the RadiForce series.				

#### Recommended separation distances between portable or mobile RF communication equipment and the RadiForce Series

The RadiForce series is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the RadiForce series can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the RadiForce series.

Immunity to proximity fields from following RF wireless communication equipments has been confirmed:

Test frequency (MHz)	Bandwidth <sup>a)</sup> (MHz)	Service <sup>a)</sup>	Modulation b)	Maximum power (W)	Minimum separation distance (m)	IEC / EN60601 test level (V/m)	Compliance level (V/m)
385	380 - 390	TETRA 400	Pulse modulation b) 18 Hz	1.8	0.3	27	27
450	GMRS 460, FM FRS 460 ±5 kHz deviation 1 kHz sine		2	0.3	28	28	
710	704 - 787	LTE Band 13, 17	Pulse modulation <sup>b)</sup> 217 Hz	0.2	0.3	9	9
745							
780							
810	800 - 960	GSM 800 / 900,	Pulse modulation <sup>b)</sup> 18 Hz	2	0.3	28	28
870		TETRA 800, iDEN 820					
930		CDMA 850, LTE Band 5					
1720	1700 - 1990	1	Pulse modulation <sup>b)</sup> 217 Hz	2	0.3	28	28
1845							
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 <sup>b)</sup> 217 Hz	2	0.3	28	28
5240	5100 - 5800		Pulse modulation b) 217 Hz	0.2	0.3	9	9
5500	]						
5785							
a) For som	For some services, only the uplink frequencies are included.						
h) Carrior v	Carrier wayse are modulated using a 50 % duty evel equare ways signal						

b) Carrier waves are modulated using a 50 % duty cycle square wave signal.

The RadiForce series 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 the RadiForce series as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of	Separation distance according to frequency of transmitter (m)				
transmitter (W)	150 kHz to 80 MHz d = 1.2√P	80 MHz to 800 MHz d = 1.2√P	800 MHz to 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		

For transmitters rated at a maximum output power not listed above, the recommended separation distance "d" in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where "P" is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Note 1	At 80 MHz and 800 MHz, the separation distance for a higher frequency range applies.			
Note 2	These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and			
	reflection from structures, objects and people.			

# **FCC Declaration of Conformity**

### For U.S.A., Canada Only

#### **FCC 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: RadiForce GX560

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- \* Reorient or relocate the receiving antenna.
- \* Increase the separation between the equipment and receiver.
- \* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- \* Consult the dealer or an experienced radio/TV technician for help.

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 attached specified cable below or EIZO signal cable with this monitor so as to keep interference within the limits of a Class B digital device.

- AC Cord
- Shielded Signal Cable (enclosed)

#### **Canadian Notice**

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

# **Declaration of compliance with India RoHS**

We, EIZO Corporation, hereby declare and guarantee that this product has been designed and manufactured in compliance with the E-Waste management rule 2016 which prohibit the inclusion of the following substances except for the exemptions listed in schedule II.

- Lead, Mercury, Hexavalent Chromium, Polybrominated Biphenyls or Polybrominated Diphenyl Ethers exceeding a concentration of 0.1% by weight in homogeneous materials
- Cadmium exceeding a concentration of 0.01% by weight in homogeneous materials For information on proper disposal and recycling of the product, please refer to the following website. eizo.co.in/e-waste.php



# **EIZ** Corporation

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