EIZO

Instructions for Use

RadiForce®
MS236WT-A

Color LCD Monitor with Touch Panel

Important

Please make sure you read the Instructions for Use and Installation Manual before use.
Please retain this manual for future reference.

- See the Installation Manual for monitor settings and adjustments.
- The latest product information, including the Instructions for Use, is available on our web site.
  www.eizoglobal.com

SAFETY SYMBOLS

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

⚠ **WARNING**	Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.
⚠ **CAUTION**	Failure to abide by the information in a CAUTION may result in moderate injury and/or property or product damage.
△	Indicates a warning or caution. For example, ⚡ indicates an "electrical shock" hazard.
🚫	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.

PRECAUTIONS

Important

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.

To personal safety and proper maintenance, please read carefully the "PRECAUTIONS" section and the caution statements on the monitor.

Location of Caution Statement
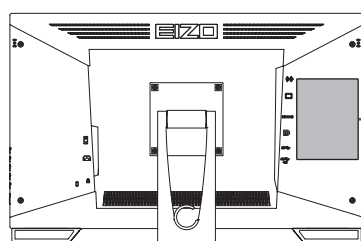
WARNING
RISK OF ELECTRIC SHOCK. DO NOT OPEN.
AVERTISSEMENT
RISQUE DE CHOC ELECTRIQUE. NE PAS OUVRIR.
WARNUNG
GEFAHR DES ELEKTRISCHEN SCHLAGES. RÜCKWAND NICHT ENTFERNEN.
警告
触电危险，请勿打开后盖。
警告
感電の恐れあり、カバーをあけないでください。

The equipment must be connected to a grounded main outlet.
L'appareil doit être relié à une prise avec terre.
Jordet stikkontakt skal benyttes når apparatet tilkobles datanett.
Apparaten skall anslutas till jordat nätuttag.
设备必须连接到接地的电源插座。
電源コードのアースは必ず接地してください。

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.
⏻	Power button: Press to turn the monitor's power on or off.
~	Alternating current
⚡	Alerting electrical shock hazard
⚠	CAUTION: See SAFETY SYMBOLS [▶ 2]
♲	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
Rx only	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 the EU
EU Importer	Importer in the EU

3

Symbol	This symbol indicates
UK CA	Mark signifying compliance with UK regulations
UK Responsible Person	UK Responsible Person
CH REP	Authorised representative in Switzerland

WARNING

⚠ **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, electrical shock, or equipment damage.

⚠ **WARNING**

Do not disassemble or modify the unit.

Opening the cabinet may result in electrical shock or burn by high-voltage or high-temperature parts. Modifying the unit may result in fire or electrical shock.

⚠ **WARNING**

Refer all servicing to qualified service personnel.

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

⚠ **WARNING**

Keep foreign objects or liquids away from the unit.

Metal parts, flammable materials, or liquids accidentally falling into the cabinet may result in fire, electrical 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.

⚠ **WARNING**

Place the unit at a sturdy and stable place.

A unit placed on an inadequate surface may fall and result in injury.

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 electrical shock.

⚠ WARNING

Use the unit in an appropriate location.

Otherwise, fire, electrical 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.

⚠ WARNING

Keep the plastic packing bags away from babies and children.

The plastic packing bags may cause suffocation.

⚠ WARNING

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: 100-240 Vac 50/60 Hz

⚠ WARNING

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

Tugging on the cord may damage and result in fire or electrical shock.

OK

⚠ WARNING

The equipment must be connected to a grounded main outlet.

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

> ⚠ **WARNING**
>
> **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: 100-240 Vac 50/60 Hz
>
> • Do not overload your power circuit, as this may result in fire or electric shock.

> ⚠ **WARNING**
>
> **Handle the power cord with care.**
>
> Do not place heavy objects on the power cord, or pull or tie the power cord. Using a damaged power cord may result in fire or electrical shock.

> ⚠ **WARNING**
>
> **The operator should not touch the patient while touching the product.**
>
> This product has not been designed to be touched by patients.

> ⚠ **WARNING**
>
> **Never touch the plug and power cord if it begins to thunder.**
>
> Touching them may result in electrical shock.

> ⚠ **WARNING**
>
> **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, 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 electrical shock. When reattaching the tilt stand, please use the same screws and tighten them securely.

> ⚠ **WARNING**
>
> **Do not touch a damaged LCD panel directly with bare hands.**
>
> 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. Otherwise, you may have a toxic reaction.

> ⚠ **WARNING**
>
> **For installment in high locations, ask for the help of a professional.**
>
> When installing the monitor in a high location, there is a risk of the product or its parts falling and causing injury. Ask for help from us or from a professional who specializes in construction work when installing the monitor, including an inspection of the product for any damage or deformities both before and after installing the monitor.

CAUTION

⚠ **CAUTION**

Check the operational state before use.

Begin use after ensuring that there are no problems with the displayed image.

When using multiple units, begin use after ensuring that the images are displayed appropriately.

⚠ **CAUTION**

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.

⚠ **CAUTION**

Disconnect cables and remove accessories when moving the unit.

Otherwise, the cables or accessories may become detached when moving, resulting in injury.

⚠ **CAUTION**

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

- When moving the product, hold the bottom of the monitor firmly.
- Monitors of size 30 inches and above are heavy. When unpacking and/or carrying the monitor, ensure at least two people are utilized.
- If your device model has a handle on the back of the monitor, grasp and firmly hold the bottom and handle of the monitor.

Dropping the unit may result in injury or equipment damage.
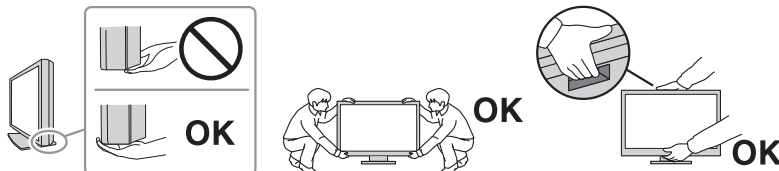
⚠ **CAUTION**

Exercise care not to pinch your hands.

If you suddenly apply force to the monitor to adjust its height or angle, your hands may be pinched and injured.

⚠ **CAUTION**

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, electrical shock, or equipment damage.

⚠ **CAUTION**

Do not touch the power plug with wet hands.

Touching them may result in electrical shock.

🚫

⚠ **CAUTION**

Do not place any objects around the power plug.

This is to facilitate disconnecting the power plug in case of a problem to avoid fire or electrical shock.

🚫

⚠ **CAUTION**

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

Dust, water, or oil adhered to this area may result in fire.

⚠ **CAUTION**

Unplug the unit before cleaning it.

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

⚠ **CAUTION**

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 the safety and the power saving.

⚠ **CAUTION**

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

⚠ **CAUTION**

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

Indications for Use

This product is suited to clinical review. It does not support the display of mammography images for diagnosis.

Attention
• This product should be set to landscape mode when used for the above purpose. • 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 using the power cords provided together with the product and EIZO-specified signal cables. • Only use EIZO accessories products specified by EIZO with this product.

Precautions for Use

- Parts (such as the LCD panel and the fan) may deteriorate if used 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 remain. Use the screensaver or power save function to avoid displaying the same image for extended periods of time. An afterimage may appear even after a short time period has elapsed depending on the displayed image. To remove such a phenomenon, change the image or keep the power turned off for several hours.

- It takes about 30 minutes for the monitor display to stabilize. Please wait 30 minutes or more after the monitor power has been turned on or the monitor has recovered from power saving mode before making adjustments to it.

- If the monitor displays continuously over a long period of time, 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. Depending on the usage pattern, such as usage for long continuous periods, the lifespan of the backlight may run out sooner, requiring replacement. 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 LCD panel itself, and is not a malfunction of the product.

- Do not scratch or press on the LCD panel with any sharp objects, at this may result in damage to the LCD panel. Do not attempt to brush with tissues as this may scratch the panel.

- Dew 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 product on. Instead wait until the dew condensation disappears, otherwise it may cause some damage to the product.

- (Cautions for the Use of the Touch Panel)
  During touch operation
  Be careful of the following points. Otherwise, damage may occur to the monitor.
  – Do not strongly press, scratch, or poke the touch panel.
  – Do not touch the touch panel with hard objects such as ballpoint pens or metals.

To Use the Monitor for a Long Time

Cleaning

- Periodic cleaning is recommended to keep the product looking new and to prolong its operation lifetime.
- Stains on the product can be removed by moistening part of a soft cloth with water or by using our ScreenCleaner and gently wiping.

Attention
• Do not let liquids come into direct contact with the product. If it does, wipe it off immediately.
• Do not allow liquids to get into gaps or inside the product.
• When using chemicals for cleaning or disinfection, chemicals such as alcohol and disinfectant may cause gloss variation, tarnishing, and fading of the product, and also quality deterioration of the displayed image. Do not use chemicals on a frequent basis.
• Never use a thinner, benzene, wax, or abrasive cleaner as they may damage the product.
• For more information on cleaning and disinfection, please refer to our web site. How to check: Access www.eizoglobal.com and type "disinfect" in the site search box to search.

Disinfection with chemicals

- When disinfecting products, we recommend using chemicals which have been tested by us (see table below). Note that using these chemicals do not guarantee that the product will not be damaged or deteriorated.

Category	Chemical type	Product example
Alcohol-based	Rubbing ethanol (ethyl alcohol)	Ethanol
Alcohol-based	Isopropanol	Isopropyl alcohol (IPA)
Chlorine	Sodium hypochlorite	Purelox
Biguanide	Chlorhexidine gluconate	Hibitane solution
Alcohol-based	Benzalkonium chloride	Welpas
Aldehyde-based	Glutaral	Sterihyde
Aldehyde-based	Glutaral	Cidex Plus28
Amphoteric surfactant	Alkyldiaminoethylglycine hydrochloride	Satenidin solution

To Use the Monitor Comfortably

- An excessively dark or bright screen may affect your eyes. Adjust the brightness of the monitor according to the environmental conditions.
- 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.

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

CONTENTS

1 Introduction

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

1.1 Features

1.1.1 Full-Flat Design

A full-flat design with a flat bezel is adopted. You can properly touch right to the edge of the screen.
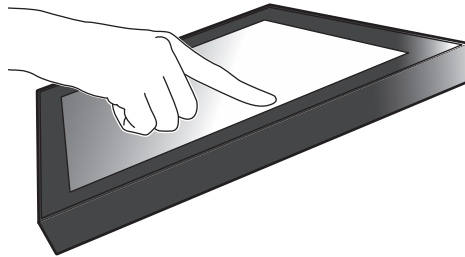
1.1.2 Easy-to-touch Stand Mechanism

The tilt angle can be adjusted steplessly. You can smoothly change the screen position to make it easier to work in a way that suits how you are using the monitor, such as for office work or multi-touch operations.
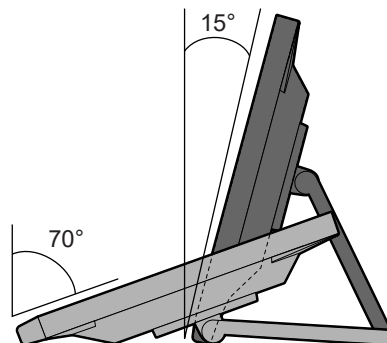
1.1.3 10-point Multi-touch Support

Multi-touch can be used to zoom in/out and rotate. The screen responds to light touches, so flick and drag operations can be performed with ease.

Zooming in/out
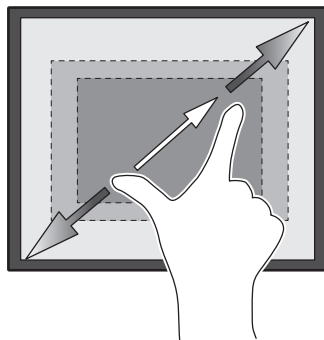
Rotating
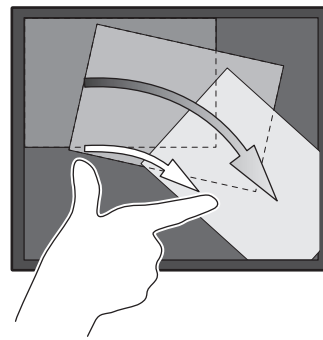
1.2 Package Contents

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 (DisplayPort - DisplayPort): PP300 x 1

- HDMI cable (HDMI - HDMI) HH300PR x 1

- USB cable: UU300SS x 1

- EIZO LCD Utility Disk (CD-ROM)
- Instructions for Use
- Cleaning cloth x 1
- Touch pen x 1
- Touch pen holder x 1
- Touch pen holder mounting screw x 1
- Screw hole cover sheet x 2
- Tie band (push-in type) x 1

1.2.1 Contents Included in the 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
- Touch panel driver (DMT-DD)
- Touch panel sensitivity adjustment software (TPOffset)
- User's Manuals
  - Instructions for Use of this monitor
  - Monitor Installation Manual
  - User's Manual of the touch panel driver
  - User's Manual of the touch panel sensitivity adjustment software
- Outline dimensions

1.3 Controls and Functions

1.3.1 Front
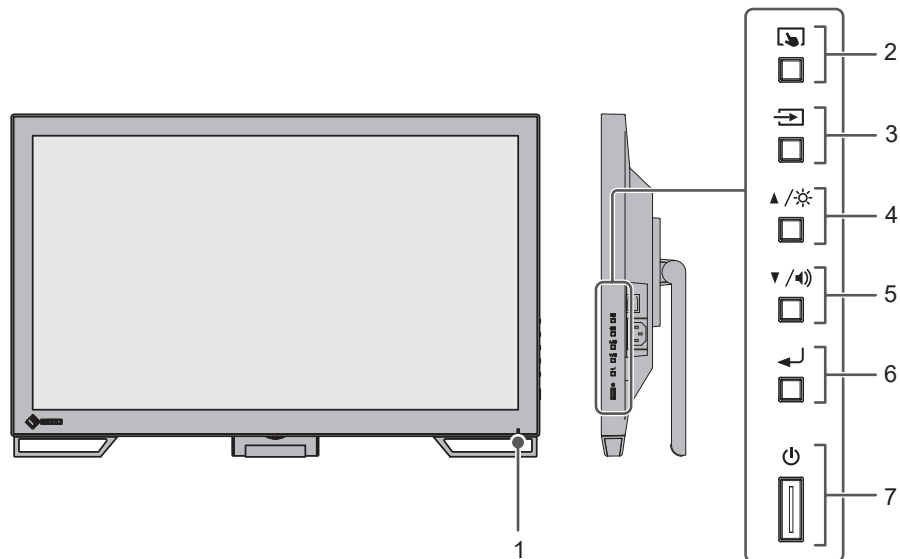
1. Power Indicator	Indicates the monitor's operation status.	
	Blue: Screen display	
	Orange: Power saving mode	
	Off: Main power / power off	
2. ⬛ button	Enables/disables and adjusts the sensitivity of the touch panel.	
3. ⇥ button	Switches the input signals to be displayed.	
4. ▲/☼ button*1	Selects items displayed in the Setting menu, adjusts or sets the functions, and displays the brightness adjustment screen.	
5. ▼/◀) button*1	Selects items displayed in the Setting menu, adjusts or sets the functions, and displays the volume adjustment screen.	
6. ↵ button	Displays the Setting menu, confirms the adjustment items of each menu, and saves adjustment results.	
7. ⏻ button	Turns the power on or off.	

*1 In this manual, the ▲/☼ button may be displayed as ▲, and the ▼/◀) button may be displayed as ▼.

1.3.2 Rear
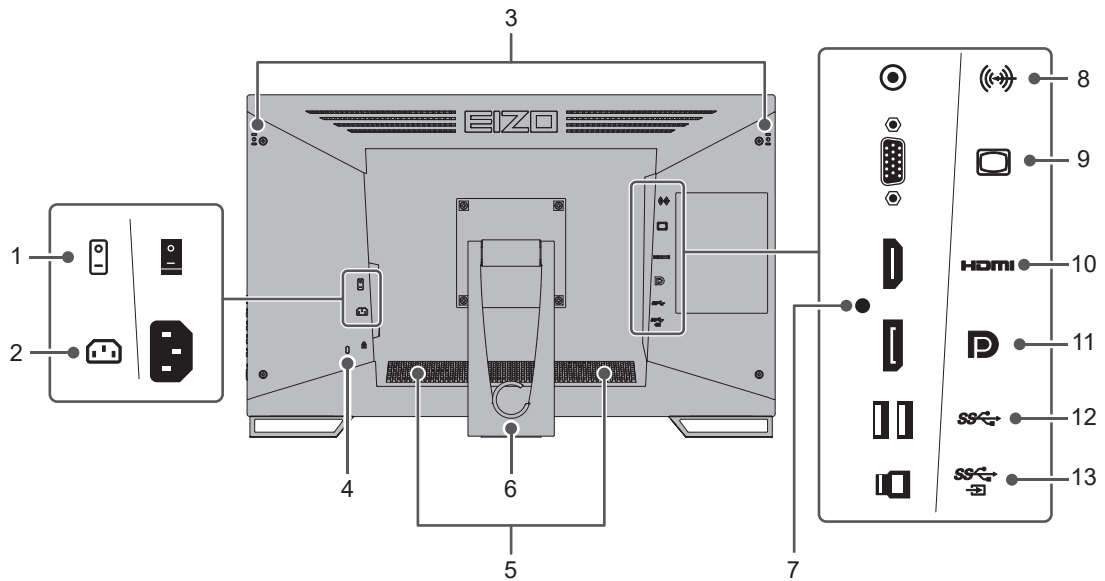
1.	**Main power switch**	Turns the main power on or off. ❘ : On, ○: Off
2.	**Power connector**	Connects the power cord.
3.	**Touch pen holder mounting hole**	For mounting the touch pen holder. (see 2.6 Mounting the Touch Pen Holder [▸ 22])
4.	**Security lock slot**	Complies with Kensington's MicroSaver security system.
5.	**Speakers**	Outputs audio.
6.	**Stand (with cable holder)**	Allows adjustment of the angle.
7.	**Tie band mounting hole**	Attach a tie band to prevent the HDMI cable from disconnecting.
8.	**Stereo mini jack**	By connecting an external device using a stereo mini jack cable, external audio can be output from the monitor.
9.	**D-Sub15 pin (mini) connector**	Connects to a PC with D-Sub output.
10.	**HDMI connector**	Connects to a PC with HDMI output.
11.	**DisplayPort connector**	Connects to a PC with DisplayPort output.
12.	**USB-A connector (downstream)**	Connects to a peripheral USB device.
13.	**USB-B connector (upstream)**	Connects to a USB cable if using the monitor as a touch panel monitor, or if using the USB hub function.

2 Installation / Connection

2.1 Before installation

Carefully read PRECAUTIONS [▶ 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.

2.1.1 Installation conditions

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 Installing

Place a soft cloth or similar material on a stable desk, and open the stand until it makes a clicking sound.
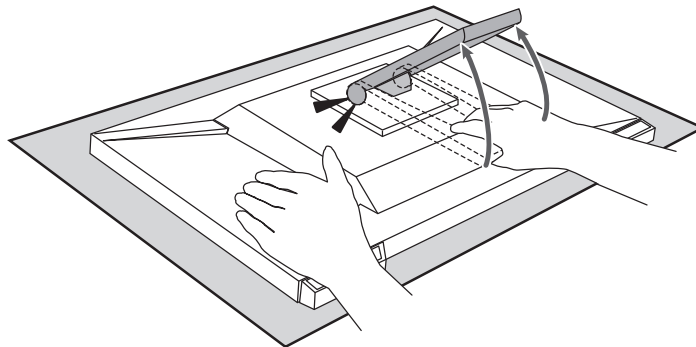
Attention
• Do not use the monitor while it is in its packaging. While packaged, the stand is closed, so there is a risk of the monitor falling over.

2.3 Connecting Cables

Attention
• Check that the monitor, PC, and peripherals are powered off before connecting.
• When replacing the current monitor with this monitor, see 4.2 Compatible Resolutions [▶ 28] to change the PC settings for resolution and vertical scan frequency to those that are available for this monitor, before connecting the PC.

1. Connect signal cables.

   Check the shapes of the connectors, and connect the cables. When connecting an HDMI cable, fasten the cable with the supplied cable tie. When connecting a D-Sub mini 15-pin cable, tighten the fasteners down to secure the connector.

   Connect the USB cable when using the monitor as a touch panel monitor. Connecting it will enable the USB hub function.

   The stereo mini jack cable is for when you want to get audio from the monitor speakers when the D-Sub mini 15-pin cable has been used for connection.

Stereo mini jack cable
(Commercially available product)

D-Sub 15 pin (mini) cable
V55 / MD-C87
(Sold separately)

or
HDMI cable (included)

HDMI

or
DisplayPort cable (included)

USB cable (included)

Audio output

D-Sub 15 pin (mini)

HDMI

DisplayPort

USB
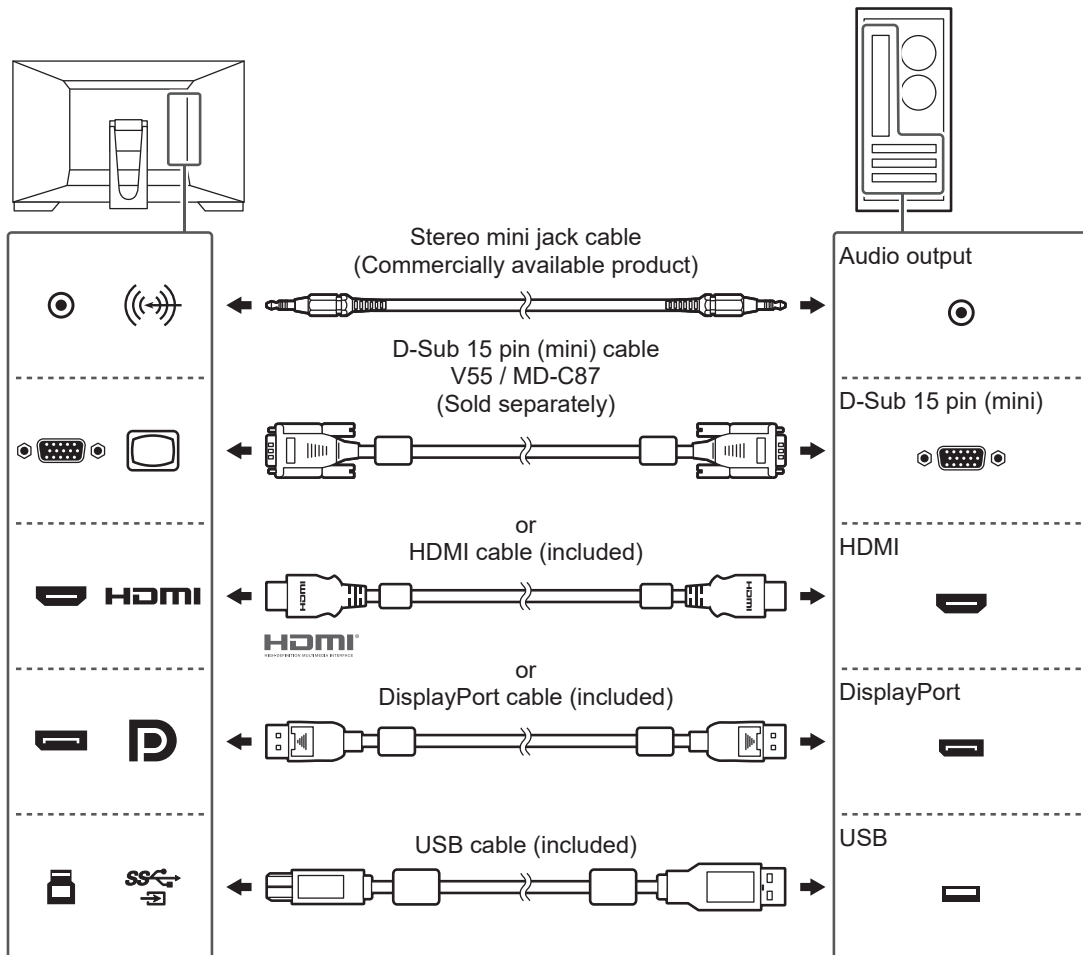
Attention
• When connecting to multiple PCs, switch the input signal. For details, refer to the Installation Manual (on the CD-ROM).

Note
• If the cables are difficult to insert, adjust the angle of the screen.

2. Plug the power cord into a power outlet and the power connector on the monitor.
   Insert the power cord fully into the monitor.
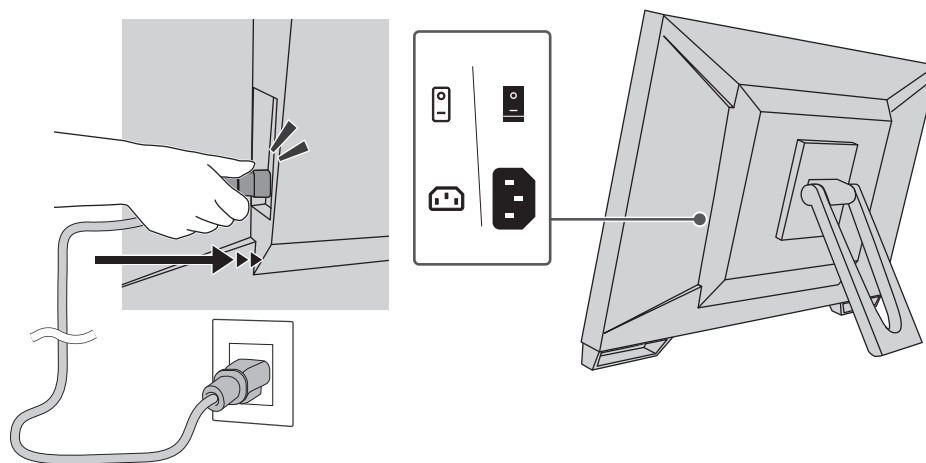
2.4 Turning On the Power

1. Check if the main power switch is on.

2. Press ⏻ to turn on the power to the monitor.
   The power switch indicator of the monitor lights up blue.
   If the indicator does not light up, see 3 No-Picture Problem [▶ 24].

3. Turn on the PC.
   The screen image appears.
   If an image does not appear, see 3 No-Picture Problem [▶ 24] for additional advice.

Attention
• Depending on the PC settings, the display may not show correctly, or not be at the appropriate scale. Check the settings for the PC if required.
• 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.

2.5 Adjusting the Screen Angle

Hold the left and right edges of the monitor with both hands, and adjust the screen tilt to the optimum position for performing tasks.

15°

70°

216.3 mm

401.3 mm
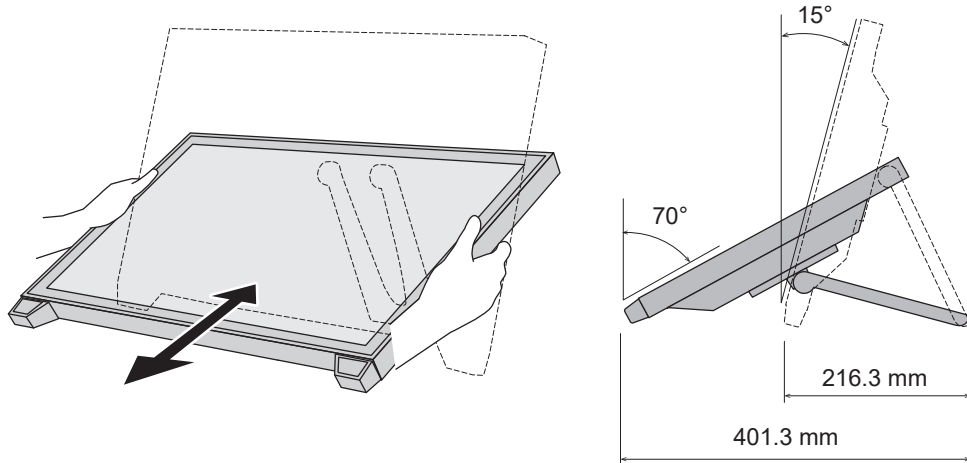
Attention
• After the adjustment is finished, make sure that the cables are correctly connected.

2.6 Mounting the Touch Pen Holder

Mount the touch pen holder in either of the holes to the left and right on the rear side of the monitor. To mount the holder, use the touch pen holder mounting screw.
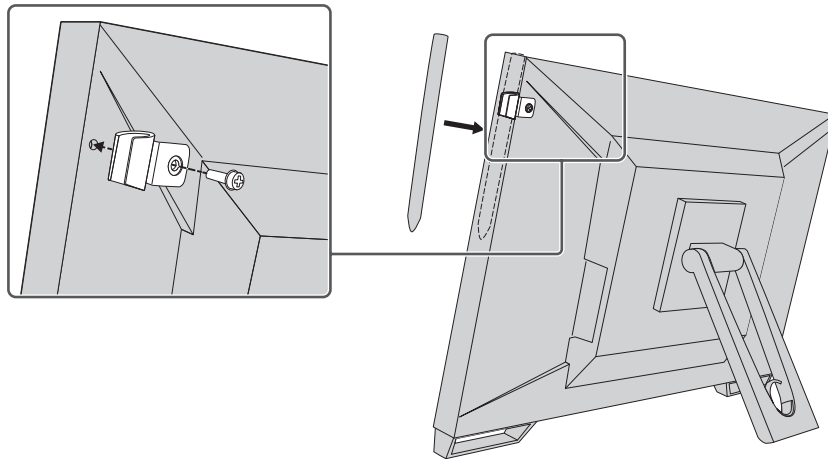
2.7 Touch Panel Setup

Connect the USB cable, and after completing installation, run the sensitivity adjustment software TPOffset.

TPOffset is included in the EIZO LCD Utility Disk (CD-ROM).
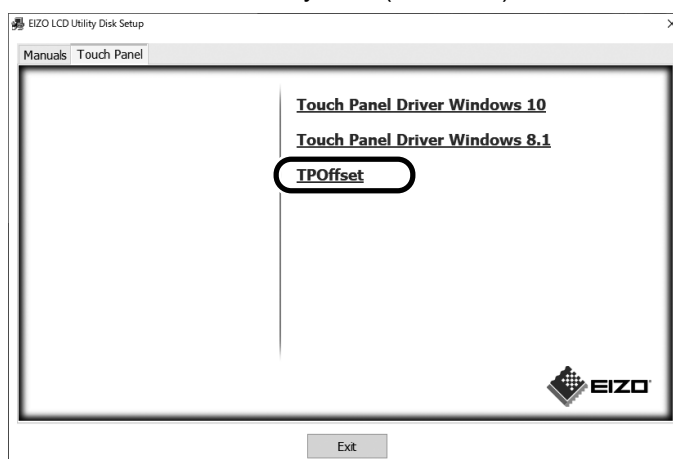
Note
• TPOffset can also be downloaded from our website. (www.eizoglobal.com)
• Run TPOffset as necessary in the following cases:
– The usage environment has changed significantly
– Operability feels changed
– There is an issue with touch operations, such as the cursor position shifting or the cursor jumping

3 No-Picture Problem

Power switch indicator does not light up.

- Check whether the power cord is connected properly.
- Turn the main power switch on.
- Press ⏻.
- Turn off the main power, and then turn it on again a few minutes later.

Power switch indicator lights up: Blue

- Increase "Brightness", "Contrast", or "Gain" in the Setting menu. For details, refer to the Installation Manual (on the CD-ROM).

Power switch indicator lights up: Orange

- Use ⊒ to switch the input signal.
- Turn the setting "On" for "Compatibility Mode" on the "Administrator Settings" menu. For details, refer to the Installation Manual (on the CD-ROM).
- Move the mouse or press any key on the keyboard.
- Touch the touch panel.
- Check whether the PC is turned on.
- Turn off the main power, and then turn it on again.

Power switch indicator flashes: Orange

- This symptom may occur when the PC is connected to the DisplayPort connector. Use a signal cable recommended by us for the connection. Turn the monitor off and on.
- Check the connection and condition of the USB peripheral devices connected to the monitor.

The message "No Signal" appears on the screen.

Example:

```
DisplayPort
No Signal
```
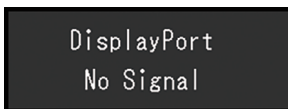
- The message shown above may appear as some PCs do not output the signal immediately after power-on.
- Check whether the PC is turned on.
- Check whether the signal cable is connected properly. Connect the signal cables to the connectors of the corresponding input signal.
- Use ⊒ to switch the input signal.
- Turn off the main power, and then turn it on again.
- Try setting "Auto Input Detection" in the "Administrator Settings" menu to "Off" and switching the input signal manually. For details, refer to the Installation Manual (on the CD-ROM).

The message "Signal Error" appears on the screen.

Example:
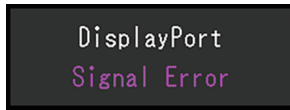
- Check whether the PC is configured to meet the resolution and vertical scan frequency requirements of the monitor (see 4.2 Compatible Resolutions [▶ 28]).
- Reboot the PC.
- Select an appropriate setting using the graphics board's utility. Refer to the User's Manual of the graphics board for details.

4 Specifications

4.1 List of Specifications

4.1.1 LCD Panel

Type	IPS (Anti-Glare)
Backlight	LED
Size	23.0" (58.4 cm)
Resolution	1920 dots x 1080 lines
Display Size (H x V)	509.2 mm x 286.4 mm
Pixel Pitch	0.265 mm x 0.265 mm
Display Colors	8 bit colors: 16.77 million colors
Viewing Angle (H / V, typical)	178˚ / 178˚
Contrast Ratio (typical)	1000:1
Response time (typical)	11 ms (middle tone area)

4.1.2 Touch Panel

Surface treatment	Anti-glare
Surface hardness	5H
Communication method	USB transfer
Detection method	Projected capacitive technology
Supported OS[1]	Microsoft Windows 11
	Microsoft Windows 10 (32 bit / 64 bit)
	Microsoft Windows 8.1 (32 bit / 64 bit)
Number of simultaneous touch points	Max. 10 points

[1] EIZO support will end when OS vendor support ends.

4.1.3 Video Signals

Input Terminals		DisplayPort (HDCP 1.3 compatible) x 1, HDMI (HDCP 1.4 compatible)[1] x 1, D-Sub 15 pin (mini) x 1
Digital Scanning Frequency (H / V [2])	DisplayPort	31 kHz – 68 kHz / 59 Hz – 61 Hz, 69 Hz – 71 Hz (at 720 x 400)
	HDMI	31 kHz – 68 kHz / 49 Hz – 51 Hz, 59 Hz – 61 Hz, 69 Hz – 71 Hz (at 720 x 400)
Analog Scanning Frequency (H / V [2])	D-Sub	31 kHz to 81 kHz / 55 Hz to 76 Hz
Frame Synchronization Mode		49 Hz – 61 Hz
Max. Dot Clock		148.5 MHz

[1] HDMI CEC (or mutual control) is not supported.

[2] The vertical scan frequency supported varies according to the resolution. For more information, see .

4.1.4 USB

Port	Upstream	USB-B x 1
	Downstream	USB-A x 2
Standard		USB Specification Rev. 3.1 Gen 1
Communication Speed		5 Gbps (super), 480 Mbps (high), 12 Mbps (full), 1.5 Mbps (low)
Supply Current	Downstream (USB-A)	Max. 900 mA per port

4.1.5 Audio

Audio Input Format	DisplayPort	2ch linear PCM (32 kHz / 44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz / 176.4 kHz / 192 kHz)
	HDMI	2ch linear PCM (32 kHz / 44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz / 176.4 kHz / 192 kHz)
Speakers		1 W + 1 W
Input Terminals		Stereo mini jack x 1
		DisplayPort x 1, HDMI x 1 (each shared with video signal)

4.1.6 Power

Input	100 – 240 VAC ±10 %, 50 / 60 Hz 0.80 – 0.45 A
Maximum Power Consumption	47 W or less
Power Save Mode	0.5 W or less[*1]
Standby Mode	0.3 W[*1]

[*1] No USB upstream port is connected, "Administrator Settings" - "Compatibility Mode" is "Off", no external load is connected, and the default settings are kept

4.1.7 Physical Specifications

Dimensions (W x H x D)	556.7 mm x 143.9 mm x 401.3 mm (Tilt: 70°)
	556.7 mm x 353.9 mm x 216.3 mm (Tilt: 15°)
Dimensions (W x H x D) (Without Stand)	556.7 mm x 339.2 mm x 54.0 mm
Net Weight	Approx. 6.6 kg
Net Weight (Monitor)	Approx. 6.0 kg
Tilt	15° – 70°

4.1.8 Operating Environment Requirements

Temperature	5°C – 35°C
Humidity	20 % – 80 % R.H. (no dew condensation)
Air Pressure	540 hPa – 1060 hPa

4.1.9 Transport / Storage Conditions

Temperature	-20°C – 60°C
Humidity	10 % – 92 % R.H. (no dew condensation)
Air Pressure	200 hPa – 1060 hPa

4.2 Compatible Resolutions

The monitor supports the following resolutions:

✓: Supported, -: Not supported

Resolution	Vertical scan frequency (Hz)	DisplayPort	HDMI	D-Sub
640 x 480	59.940	✓	✓	✓
640 x 480	60.000	✓	✓	-
640 x 480	72.809	-	-	✓
640 x 480	75.000	-	-	✓
720 x 400	70.087	✓	✓	✓
720 x 480	59.940	✓	✓	-
720 x 480	60.000	✓	✓	-
720 x 576	50.000	-	✓	-
800 x 600	56.250	-	-	✓
800 x 600	60.317	✓	✓	✓
800 x 600	72.188	-	-	✓
800 x 600	75.000	-	-	✓
1024 x 768	60.004	✓	✓	✓
1024 x 768	70.069	-	-	✓
1024 x 768	75.029	-	-	✓
1280 x 720	50.000	-	✓	-
1280 x 720	59.940	✓	✓	-
1280 x 720	60.000	✓	✓	✓
1280 x 960	60.000	✓	✓	✓
1280 x 1024	60.020	✓	✓	✓
1280 x 1024	75.025	-	-	✓
1680 x 1050	59.883	✓	✓	✓
1680 x 1050	59.954	✓	✓	✓
1920 x 1080[*1]	50.000	-	✓	-
1920 x 1080[*1]	59.940	✓	✓	-
1920 x 1080[*1]	60.000	✓	✓	✓

[*1] Recommended resolution

Note
• Only progressive is supported for the Scan Format.

4.3 Accessories

For the latest information about the optional accessories and information about the latest compatible graphics board, refer to our web site.

(www.eizoglobal.com)

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: IEC60601-1-2:2014 Group 1 Class B
- Classification of medical device (EU): Class I
- Mode of operation : Continuous

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 equipment
- RF shielded room of the medical equipment systems for MRI
- In shielded location Special environments
- Installed in vehicles including ambulances
- Other special environments

⚠ **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.

⚠ **WARNING**

- 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.

⚠ **WARNING**

- 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.

⚠ **WARNING**

- If you are connecting additional equipment to the signal input or signal output parts of the product and using it as part of a medical system, you must ensure compliance with the requirements of IEC / EN60601-1-2.

> ⚠ **WARNING**
>
> • 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 Cables	Max. Cable Length	Shielding	Ferrite Core
Signal cable (DisplayPort)	PP300 / PP200	3 m	Shielded	With Ferrite Cores
Signal cable (HDMI)	HH300PR / HH200HS	3 m	Shielded	With Ferrite Cores
Signal cable (D-Sub)	V55 / MD-C87	1.8 m	Shielded	With Ferrite Cores
USB cable	UU300SS / UU200SS	3 m	Shielded	With Ferrite Cores
Power cable (with grounding wire)	-	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 network that supplies buildings used for domestic purposes.
Harmonic emissions IEC / EN61000-3-2	Class D	
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 specified in IEC / EN60601-1-2.

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

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	0 % U_T (100 % dip in U_T) 0.5 cycles and 1 cycle 70 % U_T (30 % dip in U_T) 25 cycles / 50 Hz 0 % U_T (100 % dip in U_T) 250 cycles / 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 / 50 Hz 0 % U_T (100 % dip in U_T) 250 cycles / 50 Hz	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.

Immunity 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 disturbances induced by RF fields IEC / EN61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	$d = 1.2\sqrt{P}$
	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	$d = 1.2\sqrt{P}$, 80 MHz – 800 MHz $d = 2.3\sqrt{P}$, 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[1], should be less than the compliance level in each frequency range[2]. Interference may occur in the vicinity of equipment marked with the following symbol.

Note
• U_T is the a.c. mains voltage prior to application of the test level. • At 80 MHz and 800 MHz, the higher frequency range applies. • 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. • 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.

[1] Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the RadiForce series is used exceeds the applicable RF compliance level above, the RadiForce series should be observed to verify normal operation. If

abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the RadiForce series.

[*2] Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

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[1] (MHz)	Service[1]	Modulation[2]	Maximum power (W)	Minimum separation distance (m)	IEC / EN60601 test level (V/m)	Compliance level (V/m)
385	380 – 390	TETRA 400	Pulse modulation[2] 18 Hz	1.8	0.3	27	27
450	430 – 470	GMRS 460, FRS 460	FM ±5 kHz deviation 1 kHz sine	2	0.3	28	28
710 745 780	704 – 787	LTE Band 13, 17	Pulse modulation[2] 217 Hz	0.2	0.3	9	9
810 870 930	800 – 960	GSM 800 / 900, TETRA 800, iDEN 820 CDMA 850, LTE Band 5	Pulse modulation[2] 18 Hz	2	0.3	28	28
1720 1845 1970	1700 – 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation[2] 217 Hz	2	0.3	28	28
2450	2400 – 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation[2] 217 Hz	2	0.3	28	28
5240 5500 5785	5100 – 5800	WLAN 802.11 a/n	Pulse modulation[2] 217 Hz	0.2	0.3	9	9

[1] For some services, only the uplink frequencies are included.

[2] carrier 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 transmitter (W)	Separation distance according to frequency of transmitter (m)		
	150 kHz – 80 MHz $d = 1.2\sqrt{P}$	80 MHz – 800 MHz $d = 1.2\sqrt{P}$	800 MHz – 2.7 GHz $d = 2.3\sqrt{P}$
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
• At 80 MHz and 800 MHz, the separation distance for a higher frequency range must be applied.
• These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Information for Radio Interference

For U.S.A, Canada Only

FCC Supplier's Declaration of Conformity

We, the Responsible Party

Company: EIZO Inc.

Address: 5710 Warland Drive, Cypress, CA 90630

Phone: (562) 431-5011

declare that the product

Trade name: EIZO

Model: RadiForce MS236WT-A

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.

(www.eizo.co.in/e-waste.php)

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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

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