Instructions for Use

CuratOR EX5841 4K UHD 58" Monitor

Important

Please read the safety information and all information delivered with the product carefully to familiarize yourself with safe and effective usage.



Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

↑ DANGER

indicates that death or severe personal injury will result if proper precautions are not taken.

↑ WARNING

indicates that death or severe personal injury may result if proper precautions are not taken.

↑ CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

NOTICE

indicates that material damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Use of EIZO products

↑ WARNING

EIZO products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by EIZO. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

Trademarks

All names identified by ® are registered trademarks of their respective owners. Please refer to the trademarks listed in the appendix. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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1 Introduction

1.1 Contents of this document

These instructions for use explain the functionality and the intended use of the CuratOR EX5841. To ensure clarity, it does not contain all detailed information on this product.

You are additionally advised that the contents of this document are neither part of a previous or existing agreement, commitment or legal relationship, nor does it modify such.

Note

- Information on connecting and adapting the monitor settings can be found in the installation manual
- This documentation is available in electronic format only. It can be found on the CD-ROM provided and can be downloaded from www.eizo-or.com.

1.2 Intended use

Intended purpose

The CuratOR EX5841 is intended for the display of still images and moving images from various commercially available devices commonly used in a medical environment, in particular endoscopic. The monitor is optimized for the reproduction of colour images. The monitor is not suitable for mammography.

Intended patient population and medical conditions

The EX5841 can be used for the intended purpose irrespective of age, body weight and gender.

The EX5841 is intended to be used in combination with or mounted on medical devices. The monitor therefore has no direct contact with the patient.

The EX5841 is intended to display still images and moving images from various commercially available (medical) devices commonly used in a medical environment. The monitor cannot be used for direct diagnosis and as main device for monitoring live support equipment.

Intended users

The intended users for the EX5841 are qualified healthcare professionals.

1.3 User groups

Intended environment

The EX5841 is intended to be used in professional healthcare facilities such as clinics and hospitals. The monitor can be used in operating rooms (OR) or near patients, but is not limited to them. The monitor is not intended for direct patient contact!

The EX5841 is not suited for the following environments:

- · Home-based healthcare facilities.
- Near short-wave therapy devices.
- Near an MRI-System.
- · Built into vehicles, including ambulances.

Note

Serious incident

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.

1.3 User groups

User

In the following, healthcare personnel such as surgeons or medical technicians are referred to as the "user".

Service / service personnel

"Service" or "Service personnel" identifies authorized personnel with knowledge of electrical and signal connection, local standards for image quality requirements, and safety of medical products, for example a hospital technician or manufacturer of medical devices.

Cleaning staff

"Cleaning staff" refers to personnel responsible for cleaning medical devices.

2 Safety information

2.1 General safety instructions

Correct and safe operation of EIZO devices assume professional transport, storage, installation, and connection, as well as careful operation and service.

The devices may only be used for applications for which they are intended.

For safety reasons, the following precautions must be observed:

A DANGER

Please observe all warning information present on the device and in the instructions for use.

There is a danger to life if warnings are not obeyed. Severe personal injury or damage to property may occur.

Observe the safety requirements of EN 60601-1 (IEC 60601-1)

To prevent injury to patients and users, connect the electrical system in accordance with the safety requirements of EN 60601-1 (IEC 60601-1) for "Safety requirements for medical electrical systems".

Connecting the protective earth conductor

If the device is connected to line power, the device must be connected to a protective ground conductor. This is the only way to ensure that the touch leakage current in a first fault event does not exceed 500 μ A.

The interruption of the device's protective conductor is considered a first fault event in accordance with EN 60601-1.

Use the following measures to ensure that the leakage currents remain below the specified limits:

- · Separators for signal input unit or signal output unit
- · Use of a safety isolating transformer
- Use of the additional protective ground terminal

Mounting of the monitor: The monitor's suspension arm must have its own protective ground conductor. This protective ground conductor guarantees, together with the protective ground conductor of the monitor, that the housing leakage current always remains less than 500 μ A, even in the event of a single fault condition.

No unauthorized opening of the device / no unauthorized service or maintenance work

The device may only be opened by qualified personnel. Likewise, service or maintenance work may only be carried out by qualified personnel. There is a risk of electric shock.

No liability is accepted for death and injury to persons or damage to property resulting from work carried out by non-qualified personnel.

Do not touch components in the device

If the device is connected to the line power, components in the device are subjected to high voltages. Touching the components may be fatal.

No contact between device and patients

The device is not suitable for direct contact with a patient. The device and patient must never be touched simultaneously. Otherwise there is a danger to life and limb.

2.1 General safety instructions

⚠ DANGER

Please observe all warning information present on the device and in the instructions for use.

There is a danger to life if warnings are not obeyed. Severe personal injury or damage to property may occur.

Never use defective power cables

If a damaged or unsuitable power cable is used, it could result in a fire or electric shock. Only use power cables with PE contacts approved by the manufacturer.

Disconnect the power cable correctly

When disconnecting the power cable, always do so by holding the plug. Ensure that your hands are dry. There is a risk of electric shock.

Do not insert any objects into the housing

Objects inserted into the housing may result in an electric shock or damage to the device.

Do not place any objects on top of the device

If you place objects on top of the device, this can lead to overheating and fire.

Avoid penetration of liquid

Liquids seeping into the device may result in electric shock or device failure.

CAUTION

Extensive damage to property may result if the device is not connected correctly

That is why you should observe the warning information:

Connection must be carried out by specialists

Please ensure that all steps are taken to avoid injuries or incorrect diagnoses.

- Only use the video cables specified by the manufacturer for the connection.
- · Only use power cables with PE contacts.
- Only use power outlets with PE contacts.
- Do not connect too many devices to a power outlet or extension cable.
- Observe the information provided by the respective manufacturer.
- If required by the application or local regulations, QA software must be used for quality control
 and documentation.

Connection in the USA and Canada

Molded power supply plugs must comply with the requirements for "hospital grade attachments" CSA Std. C22.2 No. 21 and UL 498.

Connection in China

Only use power cables approved for China. These power cables are identified by the labels "CCC" or "CQC".

Observe the country-specific regulations

Observe all regulations of the country in which the device is used.

NOTICE

Extensive damage to property may result if the device is not connected correctly

That is why you should observe the warning information:

- Desktop installation:
 - Place the device on a solid and level surface. The attached stand, as well as the installation surface, must be suitable for the weight of the device.
- For mounting on a wall or ceiling suspension:
 The mount unit must be suitable for the weight of the device.
- For installation in a rack:
 Observe the installation sequence, and provide ventilation for the device.

Provide adequate air circulation

When installing the device, ensure that there is adequate air circulation for operation. The permissible ambient temperature range must not be violated. Otherwise, the device could be destroyed by overheating.

Avoid sources of heat

Do not install the device in the vicinity of sources of heat, such as radiators, heating appliances or other devices that can generate or emit heat.

Do not subject the device to jolting or shocks

The device contains sensitive electronic components that could be damaged by jolting or shocks.

Only switch on a cold device following adaptation to room temperature

If the device is brought into a room with a higher or rising temperature, condensed water will form in and on the device. Do not switch on the device until the condensed water has evaporated. Otherwise, the device could be damaged.

2.1 General safety instructions

NOTICE

Extensive damage to property may result if the device is not connected correctly

That is why you should observe the warning information:

Transportation only in original packaging

Use the original packaging for transportation, and transport in the correct shipping position. Be sure in particular to protect the monitor LCD modules from shocks.

Care of device / cleaning agents

- Remove water drops immediately; extended contact with water discolors the surface.
- Only clean the surfaces using the cleaning agents referred to in the Instructions for Use.
- Monitor: The screen is extremely sensitive to mechanical damage. Absolutely avoid scratches, shocks, etc.

What to do if the device is faulty

If the following conditions exist, the device must be disconnected from the line power supply and checked by qualified personnel:

- Damage to the plug or power cable.
- After liquid seeps into the device.
- If the device has been exposed to moisture.
- If the device does not function or if a fault cannot be eliminated using the Instructions for Use.
- If the device has been dropped and/or the housing damaged.
- · If the device smells of burning or makes peculiar noises.

Be aware of the monitors aging

Note that monitors can fail as a result of aging, and that image properties such as brightness, contrast, and color value can change.

Do not touch the monitor screen

Due to mechanical pressure or electrostatic discharges, touching the screen can result in brief disturbances to the image.

2.2 Product-specific safety instructions

NOTICE

Medical System

Do not connect devices which are not part of the medical system.

NOTICE

Opening the device

The device must only be opened by service personnel.

· Disconnect the power supply plugs before opening the device

NOTICE

Radio interference

This is a Class B device.

The device may cause radio interference or interfere with the operation of other devices in close proximity. In this case the user is encouraged to perform appropriate measures to correct the interference.

Note

No zero error rate

LCD monitors do not have a zero error rate. For this reason, the image parameters can change over time, e.g. reduced luminance or changing/fading colors.

Note

Image quality

To maintain constant image quality, EIZO recommends cleaning the monitor on a regular basis and checking image properties in accordance with all applicable local regulations.

3 Description

3.1 Scope of delivery

The device and various components are included in the scope of delivery. After unpacking, check the scope of delivery for correctness and completeness.

Note

Keep the packaging material for subsequent transport of the device.

Device

The CuratOR EX5841 is a 8 MP 58" LCD Monitor for mounting in a ceiling suspension unit or wall mount.

Product	Order number		
CuratOR EX5841	6GF62008CA01		

Components

The following components are included in the scope of delivery:

- 4 preinstalled screws for the VESA adapter
- 4 adhesive foils (Ø 25 mm) for screw holes
- 1 CD-ROM with documentation and general safety instructions
- 1 general safety instructions

3.2 Monitor performance features

4K UHD display for the operating room

The CuratOR EX5841 uses an LCD panel with energy-efficient LED background lighting, a brightness of 300 cd/m², and a contrast of 1000:1 (calibrated). It presents high-definition images of endoscopes and surgical microscopes in 3840 x 2160 (4K UHD) resolution.

Delay-free presentation

4K UHD images as well as full HD images taken with conventional endoscopes and surgical cameras, can be displayed without delay on the EX5841 in Single Source mode.

Cable cover for safety and hygiene

The connecting cable is secured under a removable cable cover. This increases safety and hygiene in the operating room.

Protective screen

The EX5841 is equipped with a protective screen. Thus, the front is protected against foreign material and sprayed water with a protection class of IP45. The entire device has protection class IP32.

Various input and output signals

The EX5841 supports various video inputs and outputs in order to connect different modalities. In addition, it is possible to switch images through external OR equipment by means of a communication interface.

Display of multiple signal sources on the monitor

- In Dual Source mode, two different signal sources can be viewed on the monitor simultaneously:
 - With the PaP (Picture-and-Picture) function, the two images are displayed side-byside.
 - With the PiP (Picture-in-Picture) function, the second image is displayed over the display of the main signal. The size and position of the display window is adjustable.
- In Triple Source mode, three signal sources are displayed on the screen. In this case, an additional display window is superimposed on the PaP display.

Setting the characteristic curve (LUT) separately

If multiple video sources are displayed simultaneously on the monitor, the LUT can be set separately for each image without impacting the display of the others. This can be useful for example, endoscopic images and CT or MRI images are displayed on the same monitor.

4K UHD connector

The 4K UHD video connection with up to 60 Hz is made possible through DisplayPort, HDMI, and 12G-SDI (BNC). The 12G-SDI (BNC) connector makes transmission over a distance of up to 30 m possible.

User and factory presets

User-specific operating configurations can be saved in the monitor as user presets. Typical operating configurations are saved ex-factory as factory presets. The presents can be selected during operation using the OSD or the Preset key.

4 Setup and installation

/ CAUTION

Changes to device

Do not make any mechanical or electric changes to the device. Otherwise the device warranty becomes invalid.

The manufacturer is not liable for changes made to the device.

4.1 Installation site

NOTICE

The power switch and connections must be accessible at all times

When installing and connecting the monitor, ensure that the power switch and the connections are accessible at all times.

NOTICE

Condensation

If the device is brought into a warm environment from a cold one, condensation may form in the device. This could result in a short circuit when switching on the device, damaging it.

 Wait until the condensed water has evaporated, including that inside the device, before you switch it on. This can take several hours.

NOTICE

Overheating

Overheating can lead to monitor failure. Make sure that the following conditions are met with the monitor in operation:

- The minimum distance from the back and side of the monitor to the wall is 10 cm, and at least 15 cm from other devices.
- The ambient temperature is in a range of +5° C +40° C.

NOTICE

Dusty environment

The monitor is intended for use in the clean environment of medical diagnostics. In dust environments, dust can penetrate into the monitor.

In the worst case, deposits are possible which become evident as dark spots in a white picture and result in deterioration of the luminance.

• Protect the monitor from dust, for example through appropriate construction measures at the installation site.

Note

Reflections on the screen

The monitor has an anti-glare surface that is only effective if the screen is clean and grease-free.

- · Comply with the specifications for cleaning.
- Position the monitor to avoid reflections on the display area.
 Reflections can be caused by lights, windows, furniture with shiny surfaces, or light-colored walls.
- In order to reduce reflections on the monitor, only use non-dazzling reflector bulbs for the ceiling lighting.

Note

Shocks and impacts

The monitor is sensitive to mechanical influences. Shocks and impacts on the panel surface can lead to total failure.

· Ensure that such mechanical influences at the installation site are avoided.

Note

Movable installation

If the monitor is installed such that it can move, make sure that persons or objects in the facility are not endangered by the monitor's range of movement.

Note

During transport, use the original packaging or service packaging.

4.2 Unpacking the monitor

!CAUTION

Injuries due to the monitor falling or tipping over

To prevent injuries when unpacking the monitor, proceed as follows:

- · Make sure the monitor cannot tip over.
- The monitor must be removed from the packaging and carried by at least two persons.
- Wear appropriate protection to prevent injuries should the monitor fall.

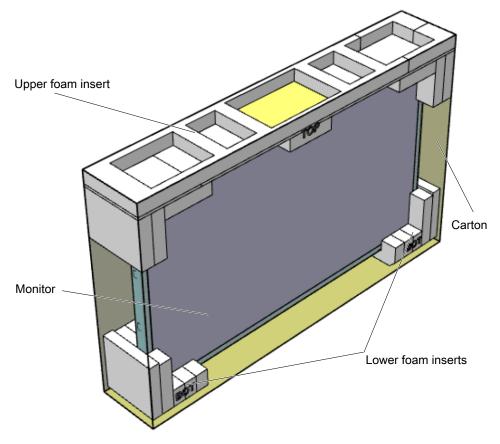


Fig.: Monitor packing (schematic representation)

Unpack the monitor as follows:

- 1. Open the four side securing straps that hold together the upper and lower parts of the carton
- 2. Remove the upper part of the carton.
- 3. Remove the enclosed components, such as cables, manuals, and CD from the upper foam insert.
- 4. Remove the upper foam insert.
- 5. Lift the monitor out of the lower part of the carton. Hold it on the side and underside.

4.3 Mounting the monitor

!CAUTION

Installation

- To enable an even load distribution, all screws have to be inserted and tightened before placing the screws under load.
- Exceeding the maximum torque for attachment on the holder can cause irreparable damage to the monitor.
- Using screws that are too long or too short can result in instability or damage the monitor

/ CAUTION

Holders

- Mounts must be tested and approved by the manufacturer for the weight to be supported.
- An installed stand must be sufficiently stable to withstand tilting of up to 10° without toppling the monitor.

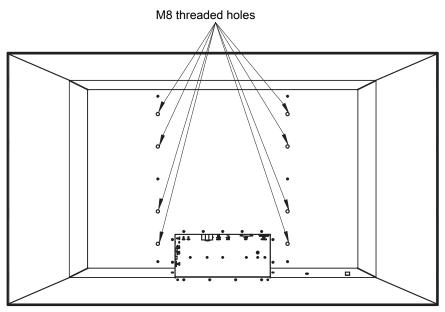


Fig.: Back view with threaded holes for VESA holder

The monitor has a VESA 400x200 or VESA 400x400 mounting interface and can be installed in a suitable ceiling suspension or wall mount.

Four screws are preinstalled for mounting in a VESA 400x400 holder.

Note

Mounting the monitor in a holder other than the VESA 400x400

If the monitor is to be mounted in a holder other than a VESA 400x400, remove the preinstalled screws and cover the screw holes with the adhesive foil included in the scope of delivery. Otherwise, protection class IP32 cannot be maintained.

4.3 Mounting the monitor

Note the following during installation:

- The maximum torque for attaching to the holder is 18 Nm.
- The screws used for attaching to the holder must meet the following requirements:

No.	4
Thread	M8
Strength	8.8 in accordance with ISO 898-1
Insertion depth	16 mm ~ 20 mm

5 Connecting

5.1 Safety information for connection

All safety information and warnings for the device must be observed to ensure danger-free operation.



Changes to device

Do not make any mechanical or electric changes to the device. Otherwise the device warranty becomes invalid.

The manufacturer is not liable for changes made to the device.



Shielding measures

Follow all shielding measures in accordance with local EMC directives. If these guidelines are not observed, device malfunction may result.

/ CAUTION

Grounding

The permissible leakage current is not exceeded during the first fault event in accordance with EN60601-1. The device is grounded with an additional protective conductor to ensure the greatest possible electric safety.

/ CAUTION

Excessive currents, short circuits, and ground faults

In accordance with national standards and regulations, protection against excessive currents, short circuits, and ground faults must be incorporated into the building installation.

NOTICE

Changes to device settings

Device settings may only be adjusted by service personnel.

NOTICE

Disconnecting from line power

Always set the power switch to "Off" before disconnecting the device from power. Otherwise the device could be destroyed.

5.2 Device connectors

NOTICE

Cable installation

Observe the following instructions:

- Only shielded cables are to be used for all signal connections.
- · The connecting cables must not be kinked.
- The minimum bending radius of a connecting cable generally equals five times the cable diameter.
- Do not route signal cables and power cables next to one another. Otherwise, line power subject to heavy interference could result in reversible pixel errors.
- The device must not share a line power supply with motors or valves (interference!).
- Externally connected cables can represent a trip hazard. Make sure that all incoming cables are safely routed.
- If the device offers strain relief mechanisms for the cables, use them to prevent unintended loosening of connected cables.

5.2 Device connectors

5.2.1 Connector locations

The connectors are located in the connection panel behind a cover on the back of the monitor. The power switch is not covered and is freely accessible.

Grounding screw

The additional protective conductor is connected to the grounding screw.

Equipotential bonding

The equipotential bonding connector is used when electric potential between electric devices differs and therefore needs to be equalized. This prevents differences in the potential between devices and conductive parts and minimizes the ground resistance.

The equipotential bonding connection on the device can minimize contact voltages from different sources, for example, when the device is used in a system with other devices.

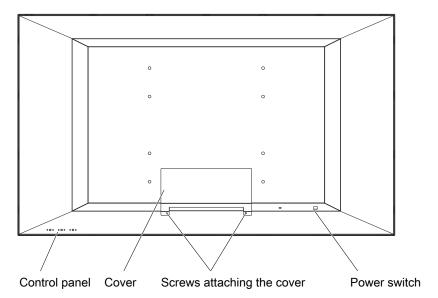


Fig.: Rear view with cover

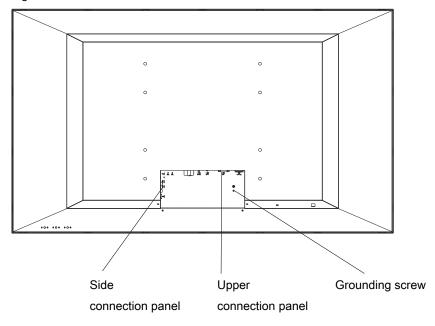


Fig.: Rear view without cover

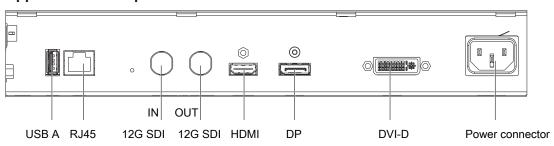
5.2.2 Connection panel

/!\CAUTION

Opening the connector panel cover

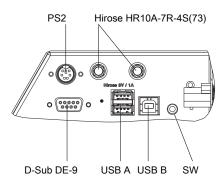
Only service may open the connector panel cover. Patients must not be present when the cover is open.

Upper connection panel



Connector	Description
USB A	1 USB A port for update.
RJ45	Remote access (for future use)
12G SDI (BNC)	1 12G SDI (input)
	1 12G SDI (output).
HDMI	1x HDMI
DP	1 DisplayPort
DVI-D	1 Single Link DVI
Power connector	Power supply via appliance plug

Side connection panel



Connector	Description			
PS2	1 PS2 interface for service activities.			
Hirose 5V/1A	2 DC 5 V/max. 1 A socket for connecting an external device.			
D-Sub DE-9	1 RS232 interface for remote access (for future use).			
USB Type A	2 USB Type A (downstream) for connecting external USB devices.			
USB Type B	1 USB type B (upstream) for connecting a USB host (such as a PC).			
SW	1 jack plug (3.5 mm) without function			

5.2.3 Digital signal inputs of the monitor

The monitor can process digital input signals at the 12G SDI (IN), HDMI, DP, and DVI connectors of the upper connection panel.

NOTICE

Video source settings

The monitor sends the correct settings to the video source via the DDC interface. If you change the settings, the images will not be displayed correctly.

5.2.4 Power connector

The device power connector is located within the connection panel under a cover on the rear of the device. The power supply is connected using an appliance plug.

! DANGER

Connecting to line power

- The device is designed for line power with a protective earth conductor.
- To avoid risk of electric shock, this device must only be connected to line power with a
 protective earth conductor.
- Contact the responsible building technician or a qualified electrician if you are uncertain whether the line power is equipped with a protective earth conductor.

/ CAUTION

Risk of damage to the device

- Only use power cables or connection cables with protective earth conductor and appliance plug according to DIN 49547, IEC 60320 (max. length 3 m, cable e.g. H05VV-F 3x1.0 mm²). The cable must comply with the safety regulations of the respective country.
- Device fuses may only be replaced by authorized repair centers. The failure of a device fuse may result in a defect in the device. Do not use any other fuse.

NOTICE

Line voltage and frequency

Before connecting the device, make sure the line voltage and frequency correspond to the specifications on the name plate.

5.3 Connection procedure

5.3 Connection procedure

!CAUTION

Opening the connector panel cover

Only service may open the connector panel cover. Patients must not be present when the cover is open.

/ CAUTION

Connector

Connectors may only be plugged in or removed by Service when the device is switched off.

NOTICE

Do not kink the connecting cables

The connecting cables must not be kinked. The minimum bending radius of the cable generally equals five times the cable diameter.

Proceed as follows to connect the monitor:

- Using a suitable tool, remove the cover from the connection panel on the back of the monitor.
 - ⇒ The upper and side connection panel is now freely accessible: Connect the signal cables of the available video sources to the corresponding inputs: 12G SDI (IN), HDMI, DP, or DVI-D.
- 2. If you want to use the monitor's USB hub function, connect the USB host to the USB B connector and the USB peripheral device to the USB A connector on the side connection panel.
- 3. If external devices need to be supplied with 5 V voltage and up to 1 A, connect them to the Hirose connectors.
- 4. Connect the power cable to the power connector.
- 5. Attach the cover over the connection panel.
- ⇒ The monitor can now be put into operation.

6 Operation

Once installed, operating the monitor consists mainly of switching the power on and off.

After switching on the monitor, the operation LED is lit green continuously. If the LED lights up with another color, the monitor is not operating within normal operation.

Note

Switching off the monitor

When the monitor is switched off, the counter for the warm-up time is reset. To ensure stable brightness, a warm-up time of 20 to 30 minutes is recommended, even if the monitor is switched off for a short period of time.

Measures in the event of a failure

Note

Device malfunction in operation

If the device is not working properly, check the system for basic connection and operating errors before contacting service personnel.

6.1 Operator controls

Control panel

The control panel key is located to the lower right on the back of the housing frame.



Key	Function		
PRESET	Opens the "Preset" menu to select user or factory presets.		
INPUT	Opens the Window Configuration menu for the set picture layout.		
MENU	Opens the OSD menu.		
	Returns to the higher level menu or closes the OSD menu.		
	Jumps to the element to the left.		
Down	Scroll down in the menu.		
	Reduce the selected entry.		
Up	Scroll up in the menu.		
	Enlarge the selected entry.		
ENTER • Opens the next menu.			
Jumps to the element to the right.			
Performs the selected function.			

6.2 Switching on the monitor and video source

Note

Operation LED

The color of the Operation LED indicates the operating state of the monitor. See also Troubleshooting [> 29].

6.2 Switching on the monitor and video source

Note

To obtain the best possible results, the video source should support communication via the Display Data Channel (DDC) for DVI or the Auxiliary (AUX) Channel for DisplayPort.

The monitor and video source can be switched on in any order.

Switching on the monitor before the video source

- ✓ The video source and power supply are connected correctly.
- 1. Switch on the monitor.
 - ⇒ The operation LED lights up yellow.
- 2. Switch on the video source.
- ⇒ If the connected signal can be displayed on the monitor, the operation LED will light green.

Switching on the video source before the monitor

- ✓ The video source and power supply are connected correctly.
- 1. Switch on the video source.
- 2. Switch on the monitor.
- ⇒ If the connected signal can be displayed on the monitor, the operation LED will light green.

/!\CAUTION

Operation LED does not light green?

If the operation LED does not light green after the equipment has been switched on and a video signal has been applied:

 check the system for basic connection and operating errors before contacting service personnel.

7 Cleaning

NOTICE

Device maintenance, cleaning and disinfecting

- Make sure liquids do not seep into the device. Liquids that seep into the device may result in an electric shock or failure of the device.
- Clean the screen when dirty using a microfiber cloth and, if necessary, a recommended cleaning agent. Clean the housing parts with a recommended cleaning agent.
- · Use only tested disinfectants.
- Remove drops of liquid from the device immediately. Contact with liquids over a longer period can cause discoloration or allow calcium deposits to form on the surface.

7.1 Recommended cleaning agents and disinfectants

!CAUTION

Use of cleaning agents and disinfectants

When handling the recommended cleaning agents and disinfectants, observe the information in the respective safety data sheet.

Agent class	Tested cleaning agents and disinfectants	Further examples
Alcohol	Ethanol 96% by vol.	Hospiset cloth
	Mikrozid Liquid, undiluted	Meliseptol Rapid
	Isopropanol 70%	
Aldehyde	Melsitt 10% by vol.	Aldasan 2000
	Cidex, undiluted	Kohsolin
		Gigasept FF
Chlorine derivatives	Terrain 0.5% by vol.	Quartamon Med
	Sodium hypochlorite 10%	Benzethonium chloride 0.2%
Disinfectants	Perform 3% by weight	Alkyldiaminoethylglycine hy-
	Morning Mist (1:64)	drochloride 0.2%
	Terralin Protect 2% by vol.	Benzalkonium chloride
	Melisepton rapid; direct	
	Microbac Tissues	
	Taski Sprint DS 5001 0.5%	
	Surfanios Fraichure Citron 0.25%	
	0.5% Chlorhexidine in 70% isopropyl alcohol	
Aklylamine	Incidin Plus 8% by vol.	
Guanidine derivatives	Lysoformin 2% by vol.	
Quaternary compounds	Incidur spray, undiluted	
	Mikrozid Sensitive Liquid, undiluted	
	Surfa'safe (ANIOS)	

7.2 Prohibited cleaning agents and disinfectants

Agent class	Tested cleaning agents and disinfectants	Further examples
Standard household washing-up liquid	Tempo	Fairy Ultra, Pril, Palmolive
Pyrene derivatives	Activ spray, undiluted	
Water	Tap water Distilled water	
Cleaning agent	Ammonia solution, 1.65% by vol.	
Lye	Calcium hydroxide diluted with water (limewater)	
Petroleum spirit	Petroleum spirit close to boiling	
Phenol and phenol de- rivatives	Helipur	

7.2 Prohibited cleaning agents and disinfectants

After extended use, the cleaning agents and disinfectants listed can lighten the paint or damage the polarizer.

Agent class	Tested cleaning agents and disinfectants	Further examples
Organic acids	Bio-AntiBact med	

8 Troubleshooting

The operation LED continuously lights up green when operating normally. In the event of a fault, localize it as follows, based on the screen display and the operation LED.

- 1. Check the device for the possible causes listed in the following.
- 2. Carry out the remedial measures before contacting service personnel.

8.1 No picture

LED Cause		Remedy		
Green	Video signal detected, but the monitor or graphics card is set up incorrectly	•	Service: Check the monitor settings e.g. LUT, brightness, no test pattern. Check and adapt the graphics card settings.	
	Video signal detected but device defective	•	Inform Service.	
	The DMPM (Digital Monitor Power Management) is active due to an interface command.	•	Service: Transmit a wake-up signal from main computer so that an image can be displayed.	
	The input signal is encrypted with HDCP.	•	The monitor does not support HDCP. Connect the monitor to a signal source without HDCP.	
Yellow	No error: The "DMPM External Power on" Energy Saving mode set in the "Power Manager" OSD menu is enabled.	•	Disable Energy Saving mode.	
	No input signal	•	Service: Connect the signal cable.	
	Incorrect timing is set	•	Service: Apply supported timing.	
Flashing yellow	No error: The "DMPM External Power off" Energy Saving mode set in the "Power Manager" OSD menu is enabled.	•	Disable Energy Saving mode. CAUTION: Do not set "DMPM External Power off" if you are using the 5 V connectors or DVI receiver modules. The monitor cannot be awakened again when video signals are applied again. To put the monitor back into operation in this case, it has to be turned off at the main switch for approx. 10 seconds and then turned back on.	
Red	Internal error	•	Inform Service.	
	Overtemperature threshold exceeded:	•	Switch off the monitor.	
	The nominal value for the backlight control is reduced by half. Brightness is reduced significantly to lower the tempera-	•	Check the ventilation and improve conditions if necessary.	
	ture and avoid potential damage.		Select a lower brightness level for standard operation.	

Troubleshooting 8.2 Picture displayed

LED	Cause	Remedy	
Dark	Device is off	•	Switch on power switch.
	Power cable is not inserted or incorrectly inserted.	•	Check the power connector.
	Power cable is defective	•	Replace the power cable
	Blown fuse	•	Inform Service.

8.2 Picture displayed

LED	Cause	Remedy
Green	No error, correct operating status	-
Flashing yel- low	The monitor has not reached the stable luminance level.	Select a lower brightness level for standard operation.
		Inform Service.
	Monitor has reached the initial critical temperature level.	Select a lower brightness level for standard operation.
		Check the ventilation and improve conditions if necessary.
	Internal error	Inform Service.
Red	Overtemperature exceeded:	Switch off the monitor.
	Brightness is reduced significantly and the nominal value for the backlight control is reduced by half to lower the temperature and avoid potential damage.	Check the ventilation and improve conditions if necessary.
		Select a lower brightness level for standard operation.
	Internal error	Inform service department
Dark	LED timeout activated	No error.
		Switch off the LED timeout setting.
	Operation LED is defective	Inform Service.

8.3 Messages

The following messages can be displayed when using or operating the monitor:

Message	Description	Remedy
No Signal	No valid video signal.	Service: Check the video source connector.
Invalid signal	Unsuitable timing	Service: Connect suitable timing.
OSD Locked	Attempts to open a locked OSD menu.	Service: Locking or unlocking the OSD menu
OSD Unlocked	Unlocking the OSD menu was successful.	-
Wrong OSD Version	An attempt was made to carry out and update with an unsuitable OSD version.	Service.
Sensor Status Normal	Displayed after a successful backlight sensor test.	-
Check with QA SW	Displayed after a failed backlight sensor test.	Service.
DMPM External Power OFF	The monitor changes to Energy Saving mode.	-
Operation Rejected	The requested operation could not be executed.	Service: Observe the requirements for executing the function.
Operation Successful	The requested operation was successfully executed.	-
Operation Failed	Execution of the requested operation was canceled.	-
Please close OSD first	A USB stick with update software was connected with the OSD open.	Service: Remove the USB stick. Close OSD.

9 Technical specifications

Note

Applicability of technical specifications

All technical specifications are valid after a warm-up period of 30 minutes.

9.1 Monitor characteristics

Feature	Value
Туре	Color, TFT (MVA)
Active Area	1270 mm x 721 mm
Screen diagonal	57.5 (1460.67 mm)
Resolution	3840 x 2160 (4K UHD)
Refresh rate	60 Hz
Pixel arrangement	24 bit (3 x 8 bit): 3 subpixels per pixel
Pixel distance	0.331 mm (H) x 0.334 mm (V)
Contrast ratio	1000:1 (calibrated)
Horizontal viewing angle	Typically 178°
Vertical viewing angle	Typically 178°
Backlight	White LEDs
Screen brightness	300 cd/m² (calibrated)

9.2 Power supply

Power connector	C14 power cord connector with protective conductor, IEC 60320
Line voltage	AC 100 240 V (± 10%)
Line frequency	50 60 Hz (± 5%)
Current consumption	<= 0.9 A @ 240 V / <= 2.0 A @ 100 V
Max. power consumption	200 W/ 216 VA
Energy Saving Mode	0 W (power switch off); < 5 W (voltage outputs off); <50 W (voltage outputs on)

9.3 Inputs / outputs

Upper connection panel

Connector	Description
USB A	1 USB A port for update.
RJ45	Remote access (for future use)
12G SDI (BNC)	1x 12G SDI (input) 1x 12G SDI (output)
HDMI	1x HDMI
DP	1 DisplayPort
DVI-D	1 Single Link DVI

Side connection panel

Connector	Description
PS2	1 PS2 interface for service activities.
Hirose HR10A-7R-4S(74) 5V/1A	2 DC 5 V/max. 1 A socket for connecting an external device.
D-Sub DE-9	1 RS232 interface for remote access (for future use).
USB Type A	2 USB Type A (Downstream) for connecting external USB devices.
USB Type B	1 USB type B (upstream) for connecting a USB host (such as a PC).

9.4 Mechanical design

Housing components	Metal	
Degree of protection	IP45 (front); IP32 (back) according to EN 60529	
Connection panel	On rear panel, under cover	
Weight	45 kg +/- 5%	
Dimensions (W x H x D) in mm (without stand)	1329 x 781 x 89	

9.5 Climatic conditions

In operation	
Temperature range	+5° C - +40° C Ambient temperature
Temperature gradient	Max. 10 K/h, no condensation
Humidity	20 ~ 80 %, non condensing, at 25 °C
Air pressure	700 ~ 1060 hPa or 3000 ~ -384 m height

For transport and storage (packed)	
Temperature range	-20 °C ~ +55 °C ambient temperature
Humidity	10 ~ 85%, non condensing, at 25 °C
Air pressure	200 ~ 1060 hPa or 11800 ~ -384 m height

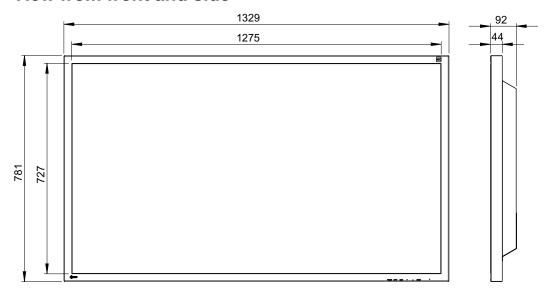
9.6 Safety regulations

Safety regulations	
Safety standards	• IEC 60601-1
	• IEC 62368
	• CAN/CSA-C22.2 No. 60601-1
	ANSI/AAMI ES60601-1
Protection class	Protection class I
Degree of protection	IP45 (front); IP32 (back)
Medical device classification (EU)	Class 1

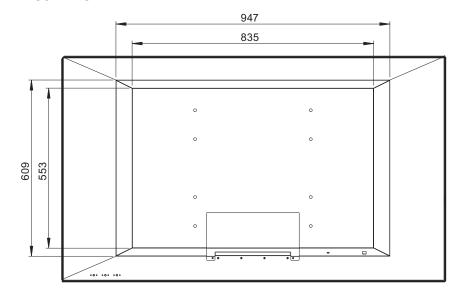
10 Dimension drawings

All dimensions in mm

10.1 View from front and side



10.2 Rear view



11 Appendix

11.1 Markings and symbols

Marking / symbol	Meaning
\triangle	Symbol for "Caution, observe accompanying documents".
4	Symbol for "Dangerous voltage".
CE	CE marking (EU conformity mark).
UK	UKCA marking (UK conformity mark).
EU Medical Device	Medical device in accordance with the European medical device regulation.
Electrical Safety MET o c E113208	MET marking, in accordance with U.S. and Canadian national regulations.
	RCM marking for conformity with Australian EMC standards.
(1)	CCC marking, in accordance with Chinese national regulations.
IS 13252 (Part 1)/ IEC 60950-1 R-41126039 www.bis.gov.in	BIS marking, in accordance with Indian national regulations.
F©	U.S. FCC marking for communication devices.
***	Symbol for the manufacturer of medical devices, supplemented by the date of manufacture.
<u> </u>	WEEE marking: Product must be disposed of separately; materials may be recycled.
10	Marking according to ACPEIP (China-RoHS).
IP32	Symbol for degree of protection according to DIN EN 60529.
	"On" symbol (voltage).
	"Off" symbol (voltage).
Ŷ	Input for service calls.
	Symbol for "Comply with the instructions for use".
UK Responsible Person	UK Responsible Person
CH REP	Swiss authorised representative (CH-REP)

11.2 Information on electromagnetic compatibility (EMC)

EIZO monitors were designed for the display of images and normal monitor operation.

/ WARNING

Special EMC provisions are required for use of the CuratOR EX5841. Installation, assembly, and use must take place in compliance with the following instructions.

- Only use the cables included in the scope of delivery or recommended by the manufacturer. The use of other cables can result in increased electromagnetic radiation and reduced electromagnetic interference immunity of the device, as well as improper use. Cable length: max. 3 m
- The monitor should not be placed on other devices or positioned in their immediate vicinity. If devices have to be operated on or in the immediate vicinity of one another, the monitor or system must be monitored to ensure proper operation for the defined configuration.
- When using a portable RF communications device, maintain a distance of at least 30 cm from all parts of the monitor, including cables. Otherwise, problem-free function of the device cannot be guaranteed.
- Persons connecting additional devices to the signal input or output when configuring a medical system are responsible for ensuring compliance with standard IEC/EN 60601-1-2.

Electromagnetic radiation

The CuratOR EX5841 is intended for use in the electromagnetic environments noted below. Customers and users of the CuratOR EX5841 have to ensure that the device is used in such an en-

Customers and users of the CuratOR EX5841 have to ensure that the device is used in such an environment.

Radiation test

Conformity

Information regarding the electromagnetic environment

RE radiation

Group 1

The CuratOR EX5841 generates RE for its internal function

Radiation test	Conformity	Information regarding the electromagnetic environment
RF radiation CISPR11/EN 55011	Group 1	The CuratOR EX5841 generates RF for its internal function only. For this reason, the RF radiation is very low and is therefore unlikely that it will result in interference in electronic devices in the immediate vicinity.
RF radiation	Class B	The CuratOR EX5841 is approved for use in a number of en-
CISPR11/EN 55011 GB9254		vironments. This includes residential areas and areas connected directly to the public low-voltage grid, such as private homes.
Harmonic currents	Class D	
IEC/EN 61000-3-2 GB17625.1		
Voltage fluctuations / flicker	fulfilled	
IEC/EN 61000-3-3		

11.2 Information on electromagnetic compatibility (EMC)

Electromagnetic interference immunity

The CuratOR EX5841 was tested with the following compliance levels in accordance with the test requirements for professional healthcare facilities, as established in IEC/EN 60610-1-2.

Customers and users of the CuratOR EX5841 have to ensure that the monitor is used in such an environment.

Interference im- munity test	Measurement level	Compliance level	Information regarding the electromagnetic environment
Electrostatic discharge (ESD) IEC/EN 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	It is recommended to use the device on wood, concrete, or ceramic floors. If the floor is made of synthetic material, the relative humidity should be at least 30%.
Fast transient electric distur- bances (bursts) IEC/EN 61000-4-4	±2 kV power lines ±1 kV input / out- put lines	±2 kV power lines ±1 kV input / out- put lines	The power supply quality has to correspond to that of typical industrial environments or hospitals.
Surge voltage IEC/EN 61000-4-5	±1 kV line against line ±2 kV line against ground	±1 kV line against line ±2 kV line against ground	The power supply quality has to correspond to that of typical industrial environments or hospitals.
Voltage dips, brief interrup- tions, and fluctu- ations of power supply lines IEC/EN 61000-4-11	0 % V_T for 0.5 periods and 1 period 70 % V_T for 25 / 30 periods at 50 / 60 Hz 0 % V_T for 250 / 300 periods at 50 / 60Hz	0 % V_T for 0.5 periods and 1 period 70 % V_T for 25 periods at 50 Hz 0 % V_T for 250 periods at 50 Hz	The power supply quality has to correspond to that of typical industrial environments or hospitals. If the monitor has to continue operation even if the power supply is interrupted, it is recommended to connect the device to an uninterruptible power supply or battery.
Magnetic fields with energy technology fre- quencies IEC/EN 61000-4-8	30 A/m (50 / 60 Hz)	30 A/m (50 Hz)	The magnetic fields with energy technology frequencies must be in an area that is representative of a typical location in a typical industrial environment or hospitals. The device should be used at least 15 cm away from the source of magnetic fields with energy technology frequencies.

Note: V_T is the alternating current voltage before application of the measurement level.

Electromagnetic interference immunity

The CuratOR EX5841 was tested with the following compliance levels in accordance with the test requirements for professional healthcare facilities, as established in IEC/EN 60601-1-2. Customers and users of the monitor have to ensure that the monitor is used in such an environment.

Interference immunity test	Measure- ment level	Compliance level	Information regarding the electromagnetic environment				
Line-based dis- turbances caused by RF fields IEC/EN 61000-4-6	3 V _{rms} 150 kHz to 80 MHz	3 V _{rms}	Portable and mobile RF communications devices may only be operated in the vicinity of the monitor and its components (including cables) when in com-				
	6 V _{rms} ISM bands between 150 kHz and	6 V _{rms}	pliance with the recommended minimum distance. It is determined using the formula for calculating the frequency of the transmitter.				
			Recommended minimum distance				
	80 MHz		$d = 3.5/3 \ \sqrt{P} = 1.2 \ \sqrt{P}$, 150 kHz to 80 MHz				
Electromagnetic	3 V/m 80 MHz to 2.7 GHz	3 V/m	d = 2 √P, ISM bands between 150 kHz and 80 MHz				
RF fields			$d = 3.5/3 \ \sqrt{P} = 1.2 \ \sqrt{P}$, 80 MHz to 800 MHz				
IEC/EN 61000-4-3			d = 7/3 √P = 2.3 √P, 800 MHz to 2.7 GHz				
			In this case, "P" stands for the measured maximum nominal output power in watts (W) of the transmitter recommended by the transmitter manufacturer, and "d" for the recommended minimum distance in meters (m).				
			The field strengths of fixed transmitters according to electromagnetic location measurement ^{a)} have to be less than the compliance level in each individual frequency range.				
			Interference can occur when used in the vicinity of devices identified with the following symbol.				

Note: The higher frequency range applies at 80 MHz and 800 MHz.

Note: Guidelines with respect to line-based interference due to RF fields or electromagnetic RF fields may not apply in all situations. Absorption and reflection by structures, objects, and people impact the propagation of electromagnetic waves. .

^{a)} The field strengths of fixed transmitters, for example the base station for cordless and mobile telephones, radio, land mobile radio, ham radio, and television cannot be determined precisely in advance. To evaluate the electromagnetic environment using fixed transmitters, an electromagnetic location measurement should be included. If the measured field strength in the environment where the device is used exceeds the applicable RF compliance level, observe the monitor to ensure its proper operation. If improper operation is observed, in some circumstances additional measures may be necessary, such as reorienting or repositioning the device.

11.2 Information on electromagnetic compatibility (EMC)

Recommended minimum distance between portable or mobile RF communications devices and the CuratOR EX5841

The CuratOR EX5841 is intended for use in an electromagnetic environment in which interference due to electromagnetic radiation is controlled. For other portable and mobile RF communication devices (transmitters), the recommended minimum distance between the portable and mobile RF communication devices (transmitters) and the monitor applies as listed below. This is based on the maximum output power of the communication device.

Maximum nominal output power of	Recommended minimum distance according to the frequency of the transmitter (m)					
the 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 whose maximum nominal output power is not shown above, the recommended minimum distance "d" in meters (m) can be determined using the formula for calculating the frequency of the transmitter. "P" here stands for the transmitter's maximum measured nominal output power in watts (W), as recommended by the transmitter's manufacturer.

Note: For 80 MHz and 800 MHz, the recommended minimum distance for the higher frequency range applies.

Note: This information may not be applicable in all situations. Absorption and reflection by structures, objects, and people impact the propagation of electromagnetic waves.

Recommended minimum distance between portable or mobile RF communications devices and the CuratOR EX5841

The CuratOR EX5841 is intended for use in an electromagnetic environment in which interference due to electromagnetic radiation is controlled. The customer or user of the monitor can help prevent electromagnetic interference by maintaining the recommended minimum distance between portable and mobile RF communications devices (transmitters) and the monitor.

The interference immunity regarding adjacent fields has been confirmed for the following wireless RF communications devices:

Test frequency (MHz)	Band- width ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Minimum distance (m)	Measure- ment level (V/m)	Compli- ance level (V/m)
385	380 - 390	TETRA 400	Pulse modu- lation ^{b)} 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	704 - 787	· · · · · · · · · · · · · · · · · · ·	Pulse modu- lation ^{b)} 217 Hz	0.2	0.3	9	9
745		17					
780							
810	800 - 960		RA 800 lation ^{b)} 18 Hz	2	0.3	28	28
870		TETRA 800 iDEN 820					
930		CDMA 850 LTE band 5					
1720	1700 -	GSM 1800; CDMA 1900 GSM 1900	CDMA 1900 lation ^{b)}	2	0.3	28	28
1845	1990						
1970		DECT LTE band 1, 3, 4, 25 UMTS					
2450	2400 - 2570	Bluetooth WLAN 802.11 b/g/n RFID 2450 LTE band 7	Pulse modu- lation ^{b)} 217 Hz	2	0.3	28	28
5240	5100 -	WLAN		0.2	0.3	9	9
5500	5800	802.11 a/n					
5785							

^{a)} For some radio services, only the frequencies for the radio contact from the mobile communications device to the base station ("Uplink") is included in the table.

b) The carrier is modulated by a square wave with 50 % duty cycle.

11.3 Environmental protection

11.3 Environmental protection

Comply with all local requirements and laws pertaining to the disposal of devices.

The device is in compliance with directive 2011/65/EU for limiting the use of specific hazardous materials in electric and electronic devices.

11.4 FCC Declaration of Conformity

For U.S.A., Canada, etc. (rated 100-120 Vac) Only

FCC Declaration of Conformity

We, the Responsible Party

EIZO Inc.

5710 Warland Drive, Cypress, CA 90630 Phone: +1 (562) 4 31 50 11

declare that the product

Trade name: EIZO

Model: CuratOR EX5841

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 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

Canadian Notice

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est comforme à la norme NMB-003 du Canada.

11.5 China RoHS (Restriction of Hazardous Substances)

液晶显示器 LCD Monitor

型号 Model: 6GF62008C\$## (\$ = A...Z; ## = 00...99)

根据SJ/T11364-2014《电子电气产品有害物质限制使用标识要求》特提供如下有关污染控制方面的信息。

The following product pollution control information is provided according to SJ/T11364-2014 Marking for the restriction of the use of hazardous substances in electrical and electronic product.

电子电气产品有害物质限制使用标志说明

Explanation of Marking for Restriction of Hazardous Substances



该标志表明本产品含有超过中国标准GB/T26572-2011《电子电气产品中限用物质的限量要求》中限量的有毒有害物质。标志中的数字为本产品的环保使用期,表明本产品在正常使用的条件下,有毒有害物质不会发生外泄或突变,用户使用本产品不会对环境造成严重污染或对其人身、财产造成严重损害的期限。单位为年。

为保证所申明的环保使用期限,应按产品手册中所规定的环境条件和方法进行正常使用, 并严格遵守产品维修手册中规定的定期维修和保养要求。

产品中的消耗件和某些零部件可能有其单独的环保使用期限标志,并且其环保使用期限有可能比整个产品本身的环保使用期限短。应到期按产品维修程序更换那些消耗件和零部件,以保证所申明的整个产品的环保使用期限。

本产品在使用寿命结束时不可作为普通生活垃圾处理,应被单独收集妥善处理。

This symbol indicates the product contains hazardous materials in excess of the limits established by the Chinese standard GB/T26572-2011 Requirements of concentration limits for certain restricted substances in electrical and electronic products. The number in the symbol is the Environment-friendly Use Period (EFUP), which indicates the period during which the toxic or hazardous substances or elements contained in electronic information products will not leak or mutate under normal operating conditions so that the use of such electronic information products will not result in any severe environmental pollution, any bodily injury or damage to any assets. The unit of the period is "Year".

In order to maintain the declared EFUP, the product shall be operated normally according to the instructions and environmental conditions as defined in the product manual, and periodic maintenance schedules specified in Product Maintenance Procedures shall be followed strictly.

Consumables or certain parts may have their own label with an EFUP value less than the product. Periodic replacement of those consumables or parts to maintain the declared EFUP shall be done in accordance with the Product Maintenance Procedures.

This product must not be disposed of as unsorted municipal waste, and must be collected separately and handled properly after decommissioning.

11.5 China RoHS (Restriction of Hazardous Substances)

有毒有害物质或元素的名称及含量 Name and Concentration of Hazardous Substances

部件名称 Component Name	有毒有	害物质或	元素 Ha	zardous	substance	es' name
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
液晶纯平屏幕 LCD Flat Screen	0	0	0	0	0	0
控制板 Controller Board	0	0	0	0	0	0
电源 Power Supply	X	0	0	0	0	0
其他 电路板 Other Circuit Boards	0	0	0	0	0	0
其他(电缆等) Others (cables, etc.)	0	0	0	0	0	0
机架、底盘 Housing, Chassis	0	0	0	0	0	0
附件(信号电缆、输电线等) Accessories (signal cable, power line, etc.)	0	0	0	0	0	0

本表格依据SJ/T 11364 的规定编制。

- O: 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 标准规定的限量要求以下
- X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572 标准规定的限量要求
- 此表所列数据为发布时所能获得的最佳信息.
- 由于缺少经济上或技术上合理可行的替代物质或方案,此医疗设备运用以上一些有害物质来实现设备的预期临床功能,或给人员或环境提供更好的保护效果。

This list is based on SJ/T 11364.

- O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in GB/T 26572.
- X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in GB/T 26572.
- Data listed in the table represents the best information available at the time of publication.
- Applications of hazardous substances in this medical device are required to achieve its intended clinical uses, and/or to provide better protection to human beings and/or to environment, due to lack of reasonably (economically or technically) available substitutes.

产品中有毒有害物质或元素的名称及含量 Table of hazardous substances' name and concentration.

11.6 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

11.7 Warranty

Opening of the housing, or electrical or mechanical changes on or in the device, result in cancellation of the warranty. For warranty details, please contact the sales partner from whom you purchased the product. These warranty conditions are neither extended nor limited by the contents of this instruction manual.

11.8 Additional devices

Connected devices must meet the relevant safety standards.

11.9 Repairs

Please contact the sales partner from whom you purchased the product.

11.10 Contact

Support during installation and for technical questions

www.eizo-or.com

11.11 Trademarks

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