

# Instructions for Use

## EX-1







### **Important**

**Please read this Instructions for Use carefully before using the product to ensure that you use it safely and effectively.**

**Please retain this manual for future reference.**

## SAFETY SYMBOLS

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

	<b>WARNING</b> Failure to abide by the information in a WARNING may result in serious injury and can be life threatening.		<b>CAUTION</b> 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.

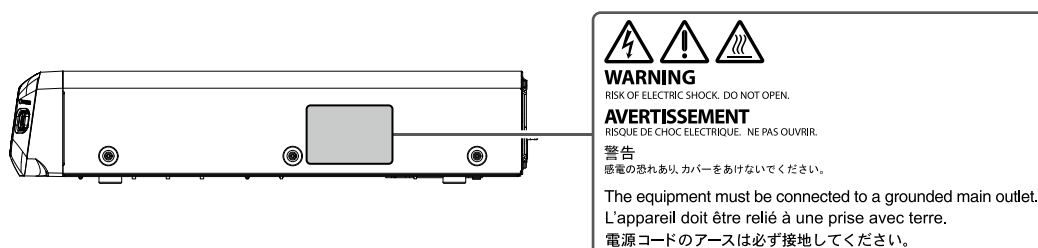
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# PRECAUTIONS

## IMPORTANT

- If the product is used outside the region, it may not operate as specified in the specifications.
- To personal safety and proper maintenance, please read carefully this section and the caution statements on the monitor.

### Location of the Caution Statements



### Symbols on the unit

Symbol	This symbol indicates	
	Power button:	Press to turn the monitor's power on or off.
	Alternating current	
	Alerting electrical hazard	
	CAUTION:	Refer to "SAFETY SYMBOLS" (page 2).
	Potential equalization terminal	
	WEEE marking:	Product must be disposed of separately; materials may be recycled.
	CE marking:	EU conformity mark in accordance with the provisions of Council Directive 93/42/EEC and 2011/65/EU.
	Consult instructions for use.	
	High temperature	



## WARNING

**If you discover any abnormalities, such as smoke, abnormal sounds or smell, turn off the power switch immediately, disconnect the power plug, then contact your local distributor.**

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

**Do not disassemble or modify the unit.**

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



**Refer all servicing to qualified service personnel.**

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

**Keep small objects or liquids away from the unit.**

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



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

A unit placed on an inadequate surface may fall and result in injury or equipment damage. If you drop the product on the ground, disconnect the power plug and contact your local distributor. Do not continue using a damaged unit. Using a damaged unit may result in fire or electric shock.

**Use the unit in an appropriate location.**

Otherwise, fire, electric shock, or equipment damage may result.

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



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

**Use a power cord which is compatible with the local rating and domestic standards.**

This product does not come with any power cord. Provide a power cord which meets the following requirements.

- For Europe: The power cord has a rated value of at least AC250V 10A and is cord type H05VV-F, GTCE-3, 0.75mm<sup>2</sup>.
- For USA: The power cord has a rated value of at least AC125V 10A and is cord type SJT, 3/18AWG (0.75mm<sup>2</sup>).
- For Japan: The power cord has a rated value of at least AC125V 7A and is cord type VCTF, 0.75mm<sup>2</sup>.

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

Be sure to use within the rated voltage of the power cord. Otherwise, fire or electric shock may result.

Power supply: 100-240Vac 50/60Hz

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

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





## WARNING

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**The equipment must be connected to a grounded main outlet.**

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



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**Use the correct voltage.**

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

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**Handle the power cord with care.**

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

If the power cord becomes damaged, stop using it. Using of a damaged cord may result in fire or electric shock.



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

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



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**Never touch the plug and power cord if it begins to thunder.**

Touching them may result in electric shock.





## CAUTION

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### **Disconnect the power cord and cables when moving the unit.**

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

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

- When you move this product to another location, carry the product while supporting the bottom portion of it.

Dropping the unit may result in injury or equipment damage.

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### **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 product in a vertical position or upside down.

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

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### **Do not touch the plug with wet hands.**

Doing so may result in electrical shock.

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### **Use an easily accessible power outlet.**

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

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### **Regularly clean the surrounding area of the power plug and ventilation slots of the product**

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

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### **Unplug the unit before cleaning it.**

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

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

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**This product contains lithium batteries. Dispose of this product in accordance with the laws of the locality or country of residence.**

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# Notice for this product

## Intended Use

This product is intended to be used for capturing images and displaying them on a monitor.

### Attention

- The specifications defined in this document are applicable only when you use the attached cables, EIZO-designated power cords and signal cables.
- Only use optional products manufactured or specified by us with this product.

## Precautions for Use

- Parts of the product, such as the fans, may deteriorate with prolonged usage. Periodically check that they are operating normally.
- When the monitor is cold and brought into a room or the room temperature goes up quickly, dew condensation may occur on the interior and exterior surfaces of the monitor. In that case, do not turn the monitor on. Instead wait until the dew condensation disappears, otherwise it may cause some damage to the monitor.
- The product may malfunction if it is not taken care of under the right conditions.

## To Use the Monitor for a Long Time

### ● Cleaning

Periodic cleaning is recommended to keep the monitor looking new and to prolong its operation lifetime.

Gently wipe off any dirt on the cabinet by using a piece of soft cloth moistened with a small amount of water or one of the following chemicals listed below.

### Chemicals that may be used for cleaning

Material name	Product name
Ethanol	Ethanol
Isopropyl alcohol	Isopropyl alcohol
Chlorhexidine	Hibitane
Benzalkonium chloride	Welpas
Alkyldiaminoethylglycine	Tego 51
Glutaral	Sterihyde
Glutaral	Cidex Plus28

### Attention

- Do not use chemicals on a frequent basis. Note that chemicals, including alcohol and disinfectant, may affect the glossy property of the cabinet and may cause discoloration or fading.
- Using chemicals other than the ones listed to clean may damage the product.
- Never use any thinner, benzene, wax, or abrasive cleaner because they will damage the cabinet.
- Do not let any chemical solution come in direct contact with this product.

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# Chapter 1 Introduction

## 1-1. Package Contents

Check to see if the package contains all of the following items. If any item is missing, contact the distributor you purchased from.

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**Attention**

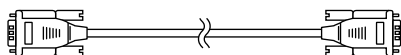
- The power cord is not included in the package. The power cord you use must have the appropriate electrical rating for your country or region and must conform to the standards applicable to your country.
- Use a power cord that has three prongs.

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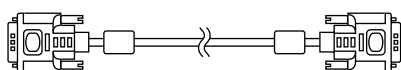
**Note**

- You should keep all the packaging materials, including the box, in case you need to move or transport this product.

- EX-1 (main unit)
- Instructions for Use (this document)
- RS-232C Cable (male-to-female, cross cable)

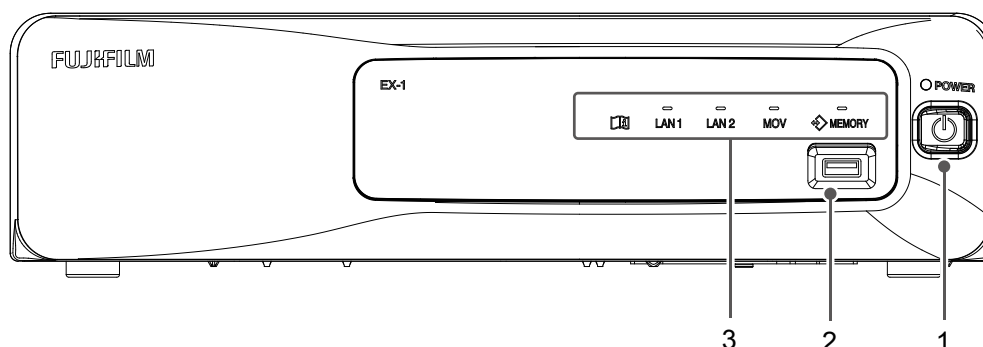


- DVI-D Cable

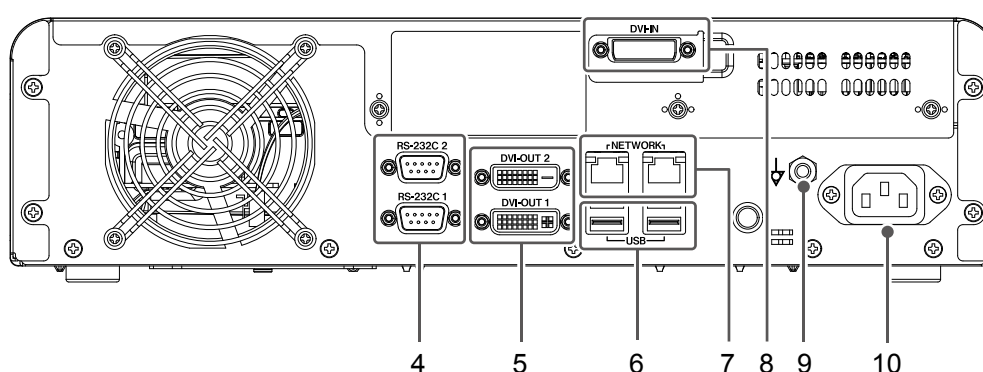






## 1-2. Controls and Functions

### ● Front



### ● Back



<b>1. Power switch</b> 	Turns the main power on and off.
<b>2. USB downstream port (USB2.0)</b>	Connects a USB memory card or a keyboard.
<b>3. Indicator</b> (  , LAN1, LAN2, MOV,  MEMORY)	Lights up or blinks according to the activity status of the product and ports.
<b>4. RS-232C connector</b>	Connects a RS-232C cable. Used for the control communications with signal output devices.
<b>5. DVI connector (output) x 2</b>	Connects a DVI cable. This connector is used to output images to display devices such as monitors.
<b>6. USB downstream port x 4</b>	Used for maintenance
<b>7. LAN port</b>	Connects a network cable.
<b>8. DVI connector (input)</b>	Connects a DVI cable. This connector is used to input image signals from signal output devices.
<b>9.  Terminal (equipotential)</b>	Terminal used for balancing electrical potential between devices. An equipotential plug is connected here.
<b>10. Power connector</b>	Connects a power cord.

# Chapter 2 Installation/Connection

## 2-1. Installing the Product

### ● Installation requirements

- Make sure to install the product on a surface that is stable and durable.
- Make sure that the product is powered off. Follow the safety instructions and install it at an appropriate location.
- Place the product in a horizontal position. Do not position the product vertically.
- To ensure that the product's vent is not blocked, keep a minimum gap of 17 mm between the unit and other devices.

### ● Installing the Product

Install the product in a stable environment.

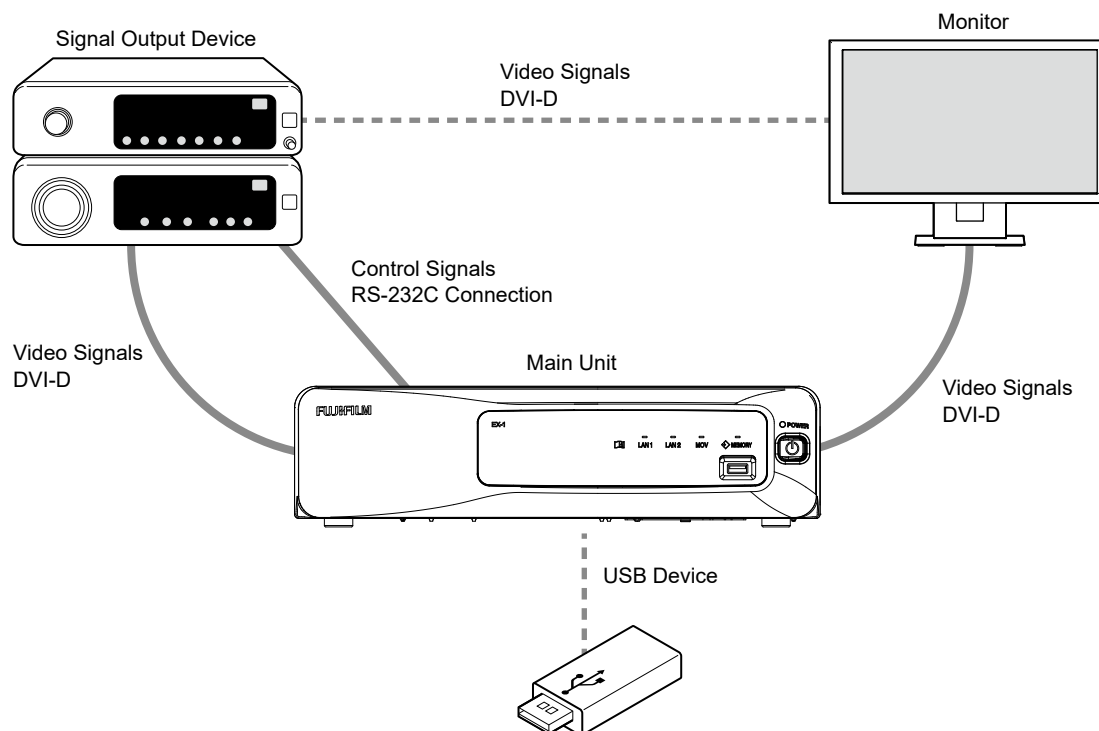
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**Attention**

- Do not place heavy objects on the product.  
Max. load: 25 kg  
If you stack another item on top of this product, place the item's legs to fit into the grooves of the product.
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## 2-2. Connecting the Cables

### ● Connection example



#### Attention

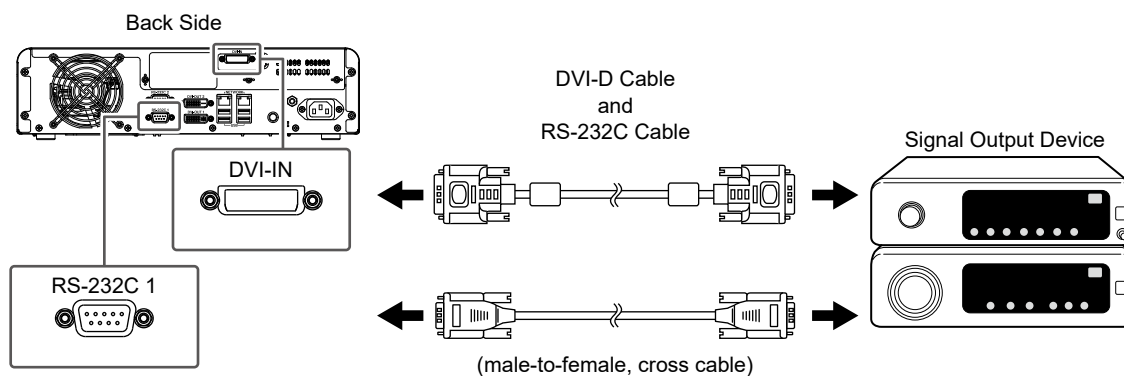
- If you connect a USB device that has a total length of 51 mm or less (41 mm or less excluding the connector part) to the USB port on the front side, you may not be able to remove it from the port.
- USB devices that are 20 mm or longer in width and 10 mm or longer in height cannot be inserted into the USB port at the front. Use the port on the back.
- We recommend that you connect the signal output device to the monitor so that the monitor can still display the output data even if the product ceases to function properly.

## ● Connecting signal output devices

### 1. Connect signal output devices using DVI or RS-232C cables.

#### Attention

- Make sure to use RS-232C cross cables.
- Make sure to use DVI-D cables.

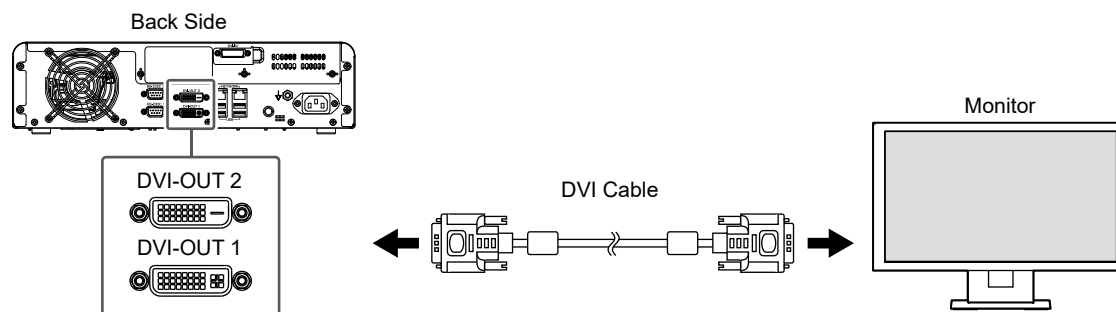


## ● Connecting monitors

### 1. Connect monitors using DVI cables.

#### Attention

- Make sure to use DVI-D cables.

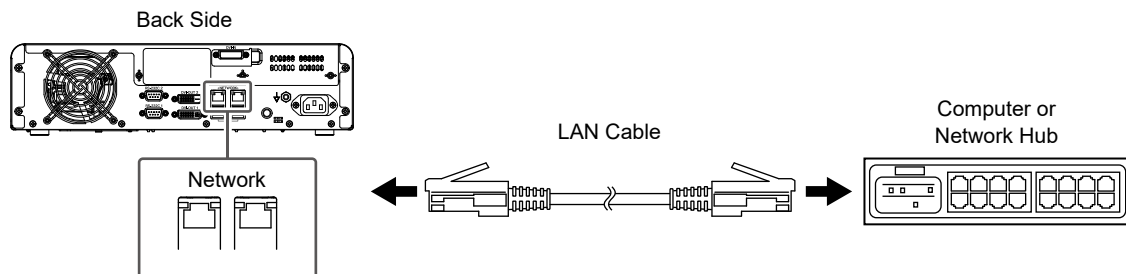


## ● Connecting to networks (optional)

### 1. Use LAN cables to connect to network equipment such as network hubs.

#### Attention

- Make sure to use straight LAN cables of category 5e and higher.
- Make sure to configure the network settings if you connect LAN cables.
- To use the network, refer to the user's manual of the software.



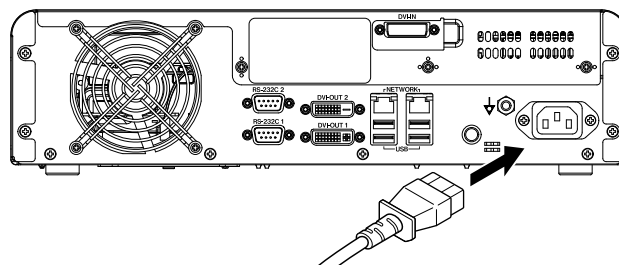
## ● Connecting a power cord

#### Attention

- Before you remove the power cord, make sure to pull out the power plug from the outlet.
- Before you shut off the power supply to the main unit by unplugging the power cable, press the main power switch and verify that the power has been turned off.

### 1. Connect the power cord to the power connector.

Insert the power cord all the way to the end.




### 2. Connect the power plug to a power outlet.

The power turns on when you connect the power cord. (Power indicator lights up)

## 2-3. Turning the Power On and Off




### 1. Press down located at the front side.

#### Note

- When the power turns on, the power indicator automatically lights up in green and the system starts up.
- When you press , the system will shut down.

# Chapter 3 Troubleshooting

## 3-1. Troubleshooting

Problem	Possible causes and remedies
<b>1. No picture</b> <ul style="list-style-type: none"> <li>Power indicator is not lit up.</li> </ul>	<ul style="list-style-type: none"> <li>Check to see if the power cord is connected properly.</li> <li>Press .</li> </ul>
<ul style="list-style-type: none"> <li>Power indicator is lit up.</li> </ul>	<ul style="list-style-type: none"> <li>Check to see if the input and output signal cables are connected properly.</li> <li>Is the signal output device configured to the resolution and vertical scanning frequency supported by this product? (Refer to “4-1. Specifications” (page 16).)</li> <li>Does the connected monitor support the output signals of this product? (Refer to “4-1. Specifications” (page 16))</li> </ul>
<ul style="list-style-type: none"> <li>Power indicator is blinking.</li> </ul>	<ul style="list-style-type: none"> <li>If the indicator blinks four times, hold down  until Power indicator turns off. Then, try turning on the power again. If this does not resolve the problem, contact your local distributor.</li> <li>If the indicator blinks six times, contact your local distributor.</li> </ul>
<b>2.  is lit</b>	<ul style="list-style-type: none"> <li>Refer to the user's manual of the software.</li> </ul>

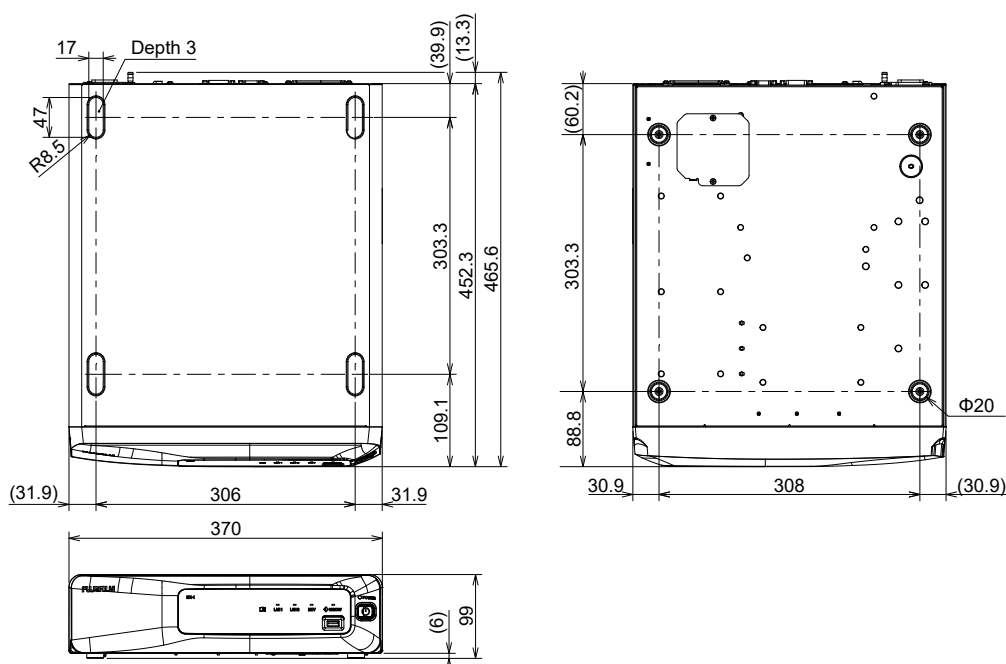
## Chapter 4 Specifications

## 4-1. Specifications

Video Signals	Input terminal	DVI-I x 1
	Input signal	1280 x 1024 / 1920 x 1080 (60 Hz) (analog signals are not supported)
	Output terminal	DVI-I x 1, DVI-D x 1
	Output signal	1920 x 1080 (60 Hz) (analog signals are not supported)
	Transmission system	TMDs (single link)
LAN	Standard	IEEE802.3ab (1000BASE-T), IEEE802.3u (100BASE-TX)
	Communication speed	1000 Mbps, 100 Mbps
	Port(s)	2
RS-232C	Standard	RS-232C-compliant
	Port(s)	2
USB	Port(s)	Downstream x 1 (front), Downstream x 4 (back)* <sup>1</sup>
	Standard	USB Specification Rev. 2.0 (front), USB Specification 3.1 Gen 1 (back)
Power	Input	100-240 VAC $\pm$ 10%, 50/60 Hz, 1.25 to 0.60 A
	Maximum power consumption	Max. 124 W
Physical Specifications	Outside dimensions (W x H x D)	370.0 mm x 99.0 mm x 465.6 mm (including protrusions)
	Net weight	Approx. 7.1 kg
Operating Environment Requirements	Temperature	10°C to 35°C
	Humidity	30% to 80% R.H. (no condensation)
	Air Pressure	700 hPa to 1060 hPa
Transportation/Storage Environmental Requirements	Temperature	-10°C to 60°C
	Humidity	30% to 80% R.H. (no condensation)
	Air Pressure	540 hPa to 1060 hPa

\*1 The USB ports at the back are for use during maintenance.

## 4-2. Outside Dimensions





# Appendix

## License

This product includes open source software.

If the open source software contains a product for which usage is granted under a GPL (GNU GENERAL PUBLIC LICENSE) license, EIZO Corporation will, in line with the GPL usage license conditions, provide the source code for corresponding GPL software via a medium, such as CD-ROM, at a cost to individuals and organizations who make contact via the following contact information for a minimum period of three years after purchase of the product.

We will also provide the source code for corresponding LGPL (GNU LESSER GENERAL PUBLIC LICENSE) software of products that include LGPL software licensed under the LGPL in the same manner as stated above.

### Contact information

[www.eizo.co.jp/support/product/contact.html](http://www.eizo.co.jp/support/product/contact.html)

\*Contact your local EIZO representative.

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## Medical Standard

- When using or designing equipment that uses this product, please do so in accordance with the requirements and standards of the country or region in which the equipment will be used.
- 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
- Mode of operation : Continuous
- IP Class : IPX0

# EMC Information

EX-1 has a performance that appropriately displays images.

## Environments of Intended Use

This product is intended to be used in Professional healthcare facilities such as clinics and hospitals, including areas in close proximity to high-frequency surgical equipment such as electric scalpels.

The following environments are not suitable for the EX-1 to be used:

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

## WARNING

The EX-1 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.

When you use EX-1, make sure that no other devices are placed nearby. If adjacent or stacked use is necessary, the equipment or system should be observed to verify normal operation in the configuration in which it will be used.

When using a portable RF communication equipment, keep it 30 cm (12 inches) or more away from any part, including cables, of the EX-1. Otherwise, degradation of the performance of this equipment could result.

Anyone who connects additional equipment to the signal input part or signal output parts, configuring a medical system, is responsible that the system complies with the requirements of IEC/EN60601-1-2.

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

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 (DVI)	DD200DL	2 m	Shielded	With Ferrite Cores
USB cable	-	2 m	Shielded	Without Ferrite Cores
Power cord (with earth)	-	3 m	Unshielded	Without Ferrite Cores
RS-232C cable	STS200CROSS	2 m	Shielded	Without Ferrite Cores
LAN cable	-	2 m	Unshielded	Without Ferrite Cores

## Technical Descriptions

Electromagnetic emissions		
The EX-1 is intended for use in the electromagnetic environment specified below. The customer or the user of the EX-1 should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment - Guidance
RF emissions CISPR11 / EN55011	Group 1	The EX-1 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.  The EX-1 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.
RF emissions CISPR11 / EN55011	Class B	
Harmonic emissions IEC / EN61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC / EN61000-3-3	Complies	

Electromagnetic immunity			
The EX-1 has been tested at the following compliance levels according to the testing requirements for professional healthcare facility environments defined in IEC / EN60601-1-2. Customers and users of the EX-1 must ensure that the EX-1 is used in the following environments:			
Immunity test	Test level for professional healthcare facility environments	Compliance level	Electromagnetic environment - Guidance
Electrostatic discharge (ESD) IEC / EN61000-4-2	±8 kV contact discharge ±15 kV air discharge	±8 kV contact discharge ±15 kV air discharge	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transients / bursts IEC / EN61000-4-4	±2 kV power lines ±1 kV input / output lines	±2 kV power lines ±1 kV input / output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surges IEC / EN61000-4-5	±1 kV line to line ±2 kV line to ground	±1 kV line to line ±2 kV line to ground	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC / EN61000-4-11	0 % $U_T$ (100 % dip in $U_T$ ) 0.5 cycles and 1 cycle 70 % $U_T$ (30 % dip in $U_T$ ) 25 cycles 0 % $U_T$ (100 % dip in $U_T$ ) 5 sec	0 % $U_T$ (100 % dip in $U_T$ ) 0.5 cycles and 1 cycle 70 % $U_T$ (30 % dip in $U_T$ ) 25 cycles 0 % $U_T$ (100 % dip in $U_T$ ) 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the EX-1 requires continued operation during power mains interruptions, it is recommended that the EX-1 be powered from an uninterruptible power supply or a battery.
Power frequency magnetic fields IEC / EN61000-4-8	30 A/m (50 / 60 Hz)	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. The product should be kept at least 15 cm away from the source of power frequency magnetic fields during use.

Electromagnetic immunity			
The EX-1 has been tested at the following compliance levels according to the testing requirements for professional healthcare facility environments defined in IEC / EN60601-1-2.			
Customers and users of the EX-1 must ensure that the EX-1 is used in the following environments:			
Immunity test	Test level for professional healthcare facility environments	Compliance level	Electromagnetic environment - Guidance
Conducted disturbances induced by RF fields IEC / EN61000-4-6	3 Vrms 150 kHz - 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the EX-1, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1.2\sqrt{P}$
	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 <sup>a)</sup> , should be less than the compliance level in each frequency range <sup>b)</sup> .  Interference may occur in the vicinity of equipment marked with the following symbol.  
Note 1	$U_T$ is the a.c. mains voltage prior to application of the test level.		
Note 2	At 80 MHz and 800 MHz, the higher frequency range applies.		
Note 3	Guidelines regarding conducted disturbances induced by RF fields or radiated RF fields may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.		
Note 4	The ISM bands between 150 kHz and 80 MHz are 6.765 MHz to 6.795 MHz, 13.553 MHz to 13.567 MHz, 26.957 MHz to 27.283 MHz, and 40.66 MHz to 40.70 MHz.		
a)	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 EX-1 is used exceeds the applicable RF compliance level above, the EX-1 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the EX-1.		
b)	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 EX-1

The EX-1 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the EX-1 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the EX-1.

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

Test frequency (MHz)	Bandwidth <sup>a)</sup> (MHz)	Service <sup>a)</sup>	Modulation <sup>b)</sup>	Maximum power (W)	Minimum separation distance (m)	IEC / EN60601 test level (V/m)	Compliance level (V/m)
385	380 - 390	TETRA 400	Pulse modulation <sup>b)</sup> 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	LTE Band 13, 17	Pulse modulation <sup>b)</sup> 217 Hz	0.2	0.3	9	9
745							
780							
810	800 - 960	GSM 800 / 900, TETRA 800, iDEN 820 CDMA 850, LTE Band 5	Pulse modulation <sup>b)</sup> 18 Hz	2	0.3	28	28
870							
930							
1720	1700 - 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation <sup>b)</sup> 217 Hz	2	0.3	28	28
1845							
1970							
2450	2400 - 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation <sup>b)</sup> 217 Hz	2	0.3	28	28
5240	5100 - 5800	WLAN 802.11 a/n	Pulse modulation <sup>b)</sup> 217 Hz	0.2	0.3	9	9
5500							
5785							
a)	For some services, only the uplink frequencies are included.						
b)	Carrier waves are modulated using a 50 % duty cycle square wave signal.						

The EX-1 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 EX-1 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 to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 1.2\sqrt{P}$	800 MHz to 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 1	At 80 MHz and 800 MHz, the separation distance for a higher frequency range applies.		
Note 2	These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.		

# Information for Radio Interference

For U.S.A., Canada Only

## FCC Supplier's Declaration of Conformity

We, the Responsible Party

Refer to back cover

declare that the product

Trade name: FUJIFILM

Model: EX-1

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 signal cable with this product 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.

# Recycling Information

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## Recycling Information

This product, when disposed of, is supposed to be collected and recycled according to your country's legislation to reduce environmental burden. When you dispose of this product, please contact a distributor or an affiliate in your country.

## Informationen zum Thema Recycling

Dieses Produkt muss gemäß den Vorschriften Ihres Landes zur Entlastung der Umwelt recyclet werden. Wenden Sie sich bei der Entsorgung dieses Produkts an einen Verteiler oder eine Tochtergesellschaft in Ihrem Land.

## Informations sur le recyclage

Ce produit doit être jeté aux points de collecte prévus à cet effet et recyclé conformément à la législation de votre pays, afin de réduire l'impact sur l'environnement. Lorsque vous jetez ce produit, veuillez contacter un distributeur ou une société affiliée de votre pays.

## Información sobre reciclaje

Este producto debe desecharse y reciclarse según la legislación del país para reducir el impacto medioambiental. Cuando desee deshacerse de este producto, póngase en contacto con un distribuidor o una filial de su país.

## Informazioni sul riciclaggio

Per lo smaltimento e il riciclaggio del presente prodotto, attenersi alle normative vigenti nel proprio paese per ridurre l'impatto ambientale. Per lo smaltimento, rivolgersi ad un distributore o un affiliato presenti nel proprio paese.

## Återvinningsinformation

När denna produkt kasseras ska den hanteras och återvinnas enligt landets föreskrifter för att reducera miljöpåverkan. När du kasserar produkten ska du kontakta en distributör eller representant i ditt land.

## Πληροφορίες ανακύκλωσης

Το προϊόν αυτό, όταν απορρίπτεται, πρέπει να συλλέγεται και να ανακυκλώνεται σύμφωνα με τη νομοθεσία της χώρας σας έτσι ώστε να μην επιβαρύνει το περιβάλλον. Για να απορρίψετε το προϊόν, επικοινωνήστε με έναν αντιπρόσωπο ή μια θυγατρική εταιρεία στη χώρα σας.

## Сведения по утилизации

По истечении срока службы данного продукта его следует принести на сборный пункт и утилизировать в соответствии с действующими предписаниями в вашей стране, чтобы уменьшить вредное воздействие на окружающую среду. Прежде чем выбросить данный продукт, обратитесь к дистрибьютору или в местное представительство компании в вашей стране.

## Informatie over recycling

Wanneer u dit product wilt weggooien, moet het uit milieu-overwegingen worden verzameld en gerecycled volgens de betreffende wetgeving van uw land. Wanneer u dit product wilt weggooien, moet u contact opnemen met een distributeur of een partner in uw land.



## Informação sobre reciclagem

Este produto, quando o deitar fora, deve ser recolhido e reciclado de acordo com a legislação do seu país para reduzir a poluição. Quando deitar fora este produto, contacte um distribuidor ou uma filial no seu país.

## Oplysninger om genbrug

Dette produkt forventes ved bortskaffelse at blive indsamlet og genbrugt i overensstemmelse med lovgivningen i dit land for at reducere belastningen af miljøet. Når du bortskaffer denne produkt, skal du kontakte en distributør eller et tilknyttet selskab i dit land.

## Kierrätystä koskevia tietoja

Tuote tulee hävittää kierrättämällä maan lainsäädännön mukaisesti ympäristön kuormittumisen vähentämiseksi. Kun hävität tuotteen, ota yhteyttä jälleenmyyjään tai tytäryhtiöön maassasi.

## Wykorzystanie surowców wtórnych

Ten produkt po zużyciu powinien być zbierany i przetwarzany zgodnie z krajowymi przepisami dotyczącymi ochrony środowiska. Wyrzucając ten produkt, należy skontaktować się z lokalnym dystrybutorem lub partnerem. Adresy

## Informace o recyklaci

Při likvidaci produktu musí být produkt vyzvednut a recyklován podle zákonů příslušné země, aby nedocházelo k zatěžování životního prostředí. Zbavujete-li se produktu, kontaktujte distributora nebo pobočku ve své zemi.

## Ringlussevõtu alane teave

Keskkonnakoormuse vähendamiseks tuleks kasutatud tooted kokku koguda ja võtta ringlusse vastavalt teie riigi seadustele. Kui kõrvaldate käesoleva toote, võtke palun ühendust turustaja või filiaaliga oma riigis.

## Újrahasznosítási információ

Jelen terméket, amikor eldobjuk, az illető ország törvényei alapján kell összegyűjteni és újrahasznosítani, hogy csökkentsük a környezet terhelését. Amikor ezt a terméket eldobja, kérjük lépjen kapcsolatba egy országon belüli forgalmazóval vagy társvállalkozással.

## Podatki o recikliranju

Ob koncu uporabe odslužen izdelek izročite na zbirno mesto za recikliranje v skladu z okoljevarstveno zakonodajo vaše države. Prosimo, da se pri odstranjevanju izdelka obrnete na lokalnega distributerja ali podružnico.

## Informácie o recyklácii

Pri likvidácii musí byť tento výrobok recyklovaný v súlade s legislatívou vašej krajiny, aby sa znížilo zaťaženie životného prostredia. Keď sa chcete zbaviť tohto výrobku, kontaktujte prosím distribútora alebo pobočku vo vašej krajine.

## Pārstrādes informācija

Utilizējot šo produktu, tā savākšana un pārstrāde veicama atbilstoši jūsu valsts likumdošanas prasībām attiecībā uz slodzes uz vidi samazināšanu. Lai veiktu šī produkta utilizāciju, sazinieties ar izplatītāju vai pārstāvniecību jūsu valstī.

## Informacija apie grąžinamąjį perdirbimą

Šalinant (išmetant) šiuos gaminius juos reikia surinkti ir perdirbti grąžinamuju būdu pagal jūsų šalies teisės aktus, siekiant sumažinti aplinkos teršimą. Kai reikia išmesti šį gaminį, kreipkitės į jūsų šalyje veikiančią gaminių pardavimo atstovybę arba jos filialą.

## Информация относно рециклиране

При изхвърлянето на този продукт се предлага събирането и рециклирането му съобразно законите на вашата страна за да се намали замърсяването на околната среда. Когато искате да се освободите от този продукт, моля свържете се с търговския му представител или със съответните органи отговарящи за това във вашата страна.

## Informație referitoare la reciclare

Acest produs, când debarasat, trebuie colectat și reciclat conform legislației țării respective ca să reducem sarcina mediului. Când se debarasează de acest produs, vă rugăm să contactați un distribuitor sau un afiliat al țării respective.

## معلومات عن إعادة التدوير

عند التخلص من هذا المنتج، من الضروري تجميعه وإعادة تدويره وفقاً للقوانين المتبعة في بلدك لتقليل العبء المسلط على البيئة. عندما تتخلص من هذا المنتج، يرجى الاتصال بموزع أو طرف منتسب إليه في بلدك.

## Geri Dönüşüm Bilgisi

Bu ürünün, atılacağı zaman, ülkenizin çevre kirliliğinin azaltılması konusundaki mevzuatına göre toplanması ve yeniden değerlendirilmesi gerekmektedir. Ürünü atacağınız zaman lütfen ülkenizdeki bir distribütör veya ilgili kuruluşla temasa geçiniz.

# After-sales Support

Should you require assistance on this product, please contact the distributor you purchased from.

## **In the event you need to have the product repaired, please provide us with the following information:**

- Your name, contact address, contact or fax number
- Date of purchase, distributor name
- Product name, product number (8-digit number shown on the label at the back of the unit.  
Example: S/N 12345678)
- Operating environment: signal output devices, image display devices, system versions, resolution, etc.
- The damage or malfunction in as much details as possible

## **Disposal**

This product is intended for professional use and contains lithium batteries. Please contact your distributor to find out how to dispose of the product.

