

User Manual

Model: ME2420

LCD Monitor

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1. Introduction

1.1 About the product

ME2420 is a FHD surgical medical monitor. This product adopts advanced display technology, specially designed for use in medical environment. True and accurate image restoration, high brightness, high contrast, wide angle of view display performance, ensure its display effect in minimally invasive and operating room environment, provide reliable support for doctors for detailed observation. A variety of video input and output interfaces that fully meet the requirements of various endoscopes, operating rooms and ICU.

Model	ME2420
Display size	24"
Display technology	IPS
Support color	16.7M
Resolution	1920×1200
Pixel pitch	0.270×0.270 mm
Brightness	600 cd/m2 Typ.
Contrast	1000:1 Typ.
Viewing angle	178° Typ.
Response time	14ms Typ.
Input signal interface	DVI-D : 24 pin HDMI: 19 pin
Dimension	561(W) x 371.3(H) x 58.5 (D) mm
Net weight	6.6 kg
Stand mounting	VESA 100 x 100
Power supply	AC 100-240V
Power consumption	60W MAX
Power saving	EPA, VESA
MTBF	50,000 h
Protection rating	IP20
Certification	CE (Medical Device), CCC, RoHS, China RoHS

1.2 About the user manual

This document describes the functionality and the reasonable usage of ME2420. For ensuring the clarity, please note that it does not contain all detailed information on this product.

This user manual contains important information that you have to read in order to ensure your personal safety and prevent damages to your property. Please read these safety information and product information so that you can operate the machine safely and effectively.

This user manual is only suitable for

ME2420. Please save this manual for future

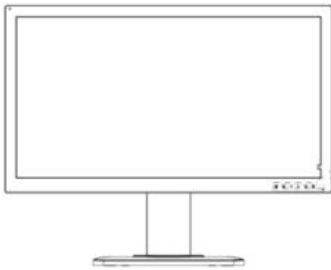
use.

This user manual is updated or changed without any notice.

1.3 Packing list

Please check the following articles when you buy the display. Please note that the pictures are only for references. The following pictures only mean the similar items.

1.3.1 Standard



LCD monitor

1.3.2 Non-standard

- Power cable □ 1 pcs
- HDMI signal cable ■ 1 pcs
- Packing list ■ 1 pcs
- CD with User manual ■ 1 pcs
- Certification ■ 1 pcs



Power cable



HDMI signal cable



Packing list



CD with user manual



Certification

2. Safety information

To ensure personal safety and proper maintenance, please read this section and the caution statements on the unit.

WARNING

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

Attempting to use a malfunctioning unit may result in fire, electric shock, or equipment damage. Information provided for the OPERATOR to safely terminate operation of ME EQUIPMENT.

Do not open the cabinet 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.

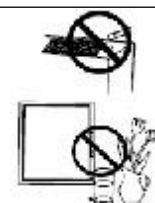
Only those who have been trained can use it.

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.



This monitor can be a long boot, but the life will be reduced.

Suggest that the device is operated by personnel experiencing training.

The device is not serviced or maintained while in use with the patient.

Place the device on a solid and stable surface.

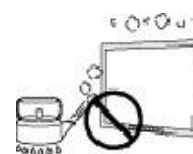
If the unit is placed on an inadequate surface may occur fall and result in personal injury or equipment damage. If the unit falls, disconnect the power immediately and ask dealer for help. Please do not continue to use damaged equipment. Using a damaged unit may result in fire or electric shock.



Set the unit in an appropriate location.

Not doing so may result in fire, electric shock, or equipment damage.

- Do not place outdoors.
- Do not place in the transportation system (ship, aircraft, trains, automobiles, etc.
- Do not place in a dusty or humid environment.
- Do not place in a location where the steam comes directly on the screen.
- Do not place near heat generating devices or a humidifier.
- Do not place in an inflammable gas environment.








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


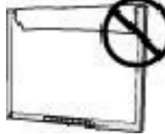



Use the enclosed power cord and connect to the standard power outlet of your country.

Be sure to remain within the rated voltage of the power cord. Not doing so may result in fire or electric shock.

<p>To disconnect the power cord, grasp the plug firmly and pull.</p> <p>Tugging on the cord may damage and result in fire or electric shock.</p>	
<p>The equipment must be connected to a grounded main outlet.</p> <p>To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.</p>	
<p>Use the correct voltage.</p> <ul style="list-style-type: none"> ➤ The unit is designed for use with a specific voltage only. Connection to another voltage than specified in this User's Manual may cause fire, electric shock, or equipment damage. ➤ Do not overload your power circuit, as this may result in fire or electric shock. 	
<p>Handle the power cord with care.</p> <ul style="list-style-type: none"> ➤ Do not press the power cord under the equipment or other heavy objects. ➤ Do not pull or wrap the power cord. If the power cord is damaged, please stop using it. Using a damaged power cord may cause a fire or electric shock. 	
<p>Never touch the plug and power cord if it begins to thunder.</p> <p>Touching them may result in electric shock.</p>	
<p>Do not touch a damaged LCD panel directly with bare hands.</p> <p>The liquid crystal that may leak from the panel is poisonous if it enters the eyes or mouth. If any part of the skin or body comes in direct contact with the panel, please wash thoroughly. If some physical symptoms result, please consult your doctor.</p>	
<p>Follow local regulation or laws for safe disposal.</p> <p>The MANUFACTURER will make available on request circuit diagrams, component part lists, descriptions, calibration instructions, or other information that will assist SERVICE PERSONNEL to repair those parts of ME EQUIPMENT that are designated by the MANUFACTURER as repairable by SERVICE PERSONNEL.</p>	

CAUTION

<p>Handle with care when carrying the unit.</p> <p>Disconnect the power cord and signal cables and remove the optional unit. Moving the unit with the cord or the option attached is dangerous. It may result in injury.</p>	
<p>When handling the unit, grip the bottom of the unit firmly with both hands ensuring the panel faces outward before lifting.</p> <p>Dropping the unit may result in injury or equipment damage.</p>	
<p>Do not block the ventilation slots on the cabinet.</p> <ul style="list-style-type: none"> ➤ Do not place any objects on the ventilation slots. ➤ Do not install the unit in a closed space. ➤ Do not use the unit laid down or upside down. <p>Blocking the ventilation slots prevents proper airflow and may result in fire, electric shock, or equipment damage.</p>	
<p>Do not touch the plug with wet hands.</p> <p>Doing so may result in electric shock.</p>	
<p>Periodically clean the area around the plug.</p> <p>Dust, water, or oil on the plug may result in fire.</p>	
<p>Unplug the unit before cleaning it.</p> <p>Cleaning the unit while it is plugged into a power outlet may result in electric shock.</p>	

If you plan to leave the unit unused for an extended period, disconnect the power cord from the wall socket after turning off the power switch for the safety and the power conservation.
The ME EQUIPMENT that are not serviced or maintained while in use with the patient .
The device cannot used under OXYGEN RICH ENVIRONMENTS
The device cannot used with flammable anaesthetics.
The device cannot used in conjunction with flammable agents.
Do not modify this equipment without authorization of the manufacturer.
Do not position ME EQUIPMENT to make it difficult to operate the disconnection device.

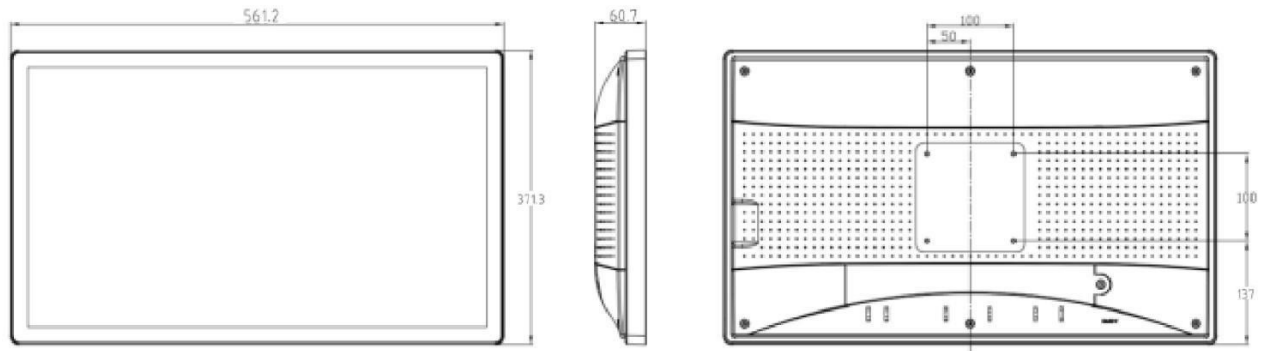
LCD PANEL

When the monitor is cold and brought into a room or the room temperature goes up quickly, dew condensation may occur inside and outside the monitor. In that case, do not turn the monitor on and wait until dew condensation disappears, otherwise it may cause some damages to it.
In order to suppress the luminosity change by long-term use and to maintain the stable luminosity, please use the monitor with the lower brightness.
The screen may have defective pixels. These pixels may appear as slightly light or dark area on the screen. This is due to the characteristics of the panel itself, and not the product.
The backlight of the LCD panel has a fixed life span. When the screen becomes dark or begins to flicker, please contact your dealer.
Do not press on the panel or edge of the frame strongly, as this may result in damage to the screen. There will be prints left on the screen if the pressed image is dark or black. If pressure is repeatedly applied to the screen, it may deteriorate or damage your LCD panel. Leave the screen white to decrease the prints.
Do not scratch or press on the panel with any sharp objects, such as a pencil or pen as this may result in damage to the panel. Do not attempt to brush with tissues as this may scratch the LCD panel.
When the screen image is changed after displaying the same image for extended periods of time, an afterimage may appear. Use the screen saver or timer to avoid displaying the same image for extended periods of time.
The monitor can be at power on for a long time, but its lifespan may be reduced. Suggest it should take a rest for 10 minutes per hour.
Turn on the monitor and computer orderly. The power indicator of the monitor will become green. If images cannot appear, please refer to “Troubleshooting” for help. Turn off the computer and monitor after every use.

3. View and connectors

3.1 Mechanical dimensions

All the dimensions are in mm.



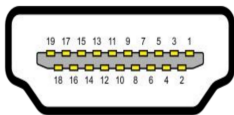
3.2 Signal connectors

● DVI connector



Pin No.	Signal	Pin No.	Signal
1	T.M.D.S. Data2-	16	Hot Plug Detect
2	T.M.D.S. Data2+	17	T.M.D.S. Data0-
3	DVI Signal Detect	18	T.M.D.S. Data0+
4	T.M.D.S. Data 4-	19	T.M.D.S. Data0/5 Shield
5	T.M.D.S. Data 4+	20	T.M.D.S. Data 5-
6	DDC Clock	21	T.M.D.S. Data 5+
7	DDC Data	22	T.M.D.S. Clock Shield
8	No connect	23	T.M.D.S. Clock+
9	T.M.D.S. Data1-	24	T.M.D.S. Clock-
10	T.M.D.S. Data1+	C1	No connect
11	T.M.D.S Data1/3 Shield	C2	No connect
12	T.M.D.S. Data 3-	C3	No connect
13	T.M.D.S. Data 3+	C4	No connect
14	+5V Power	C5	No connect
15	Ground		

● HDMI Connector

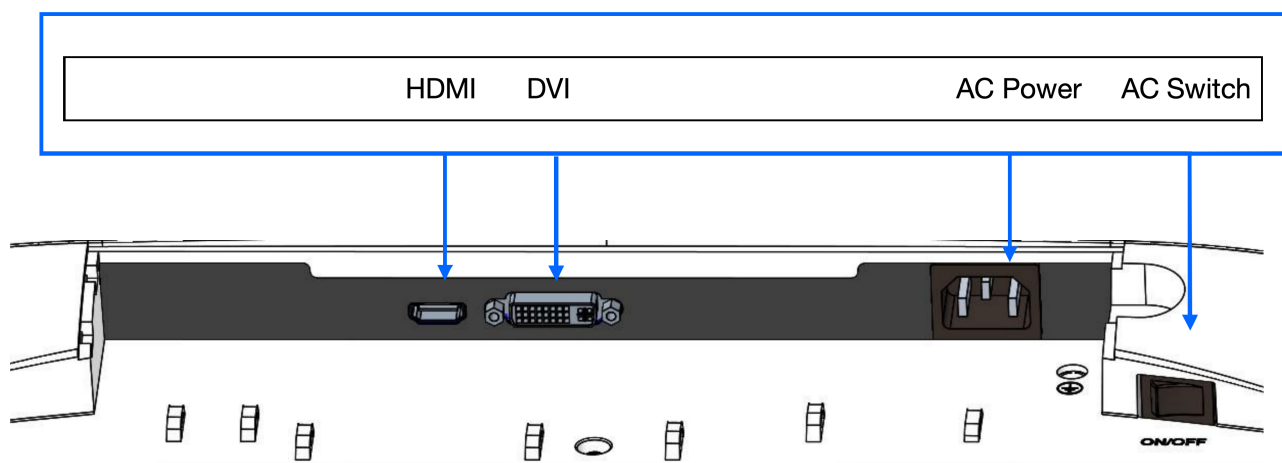


Pin No.	Signal	Pin No.	Signal
1	DATA2+	11	GND
2	GND	12	CLK-
3	DATA2-	13	NC
4	DATA1+	14	NC
5	GND	15	SCL
6	DATA1-	16	SDA
7	DATA0+	17	GND
8	GND	18	+5V
9	DATA0-	19	HOT_PLUG
10	CLK+		

4.Connection and quick start

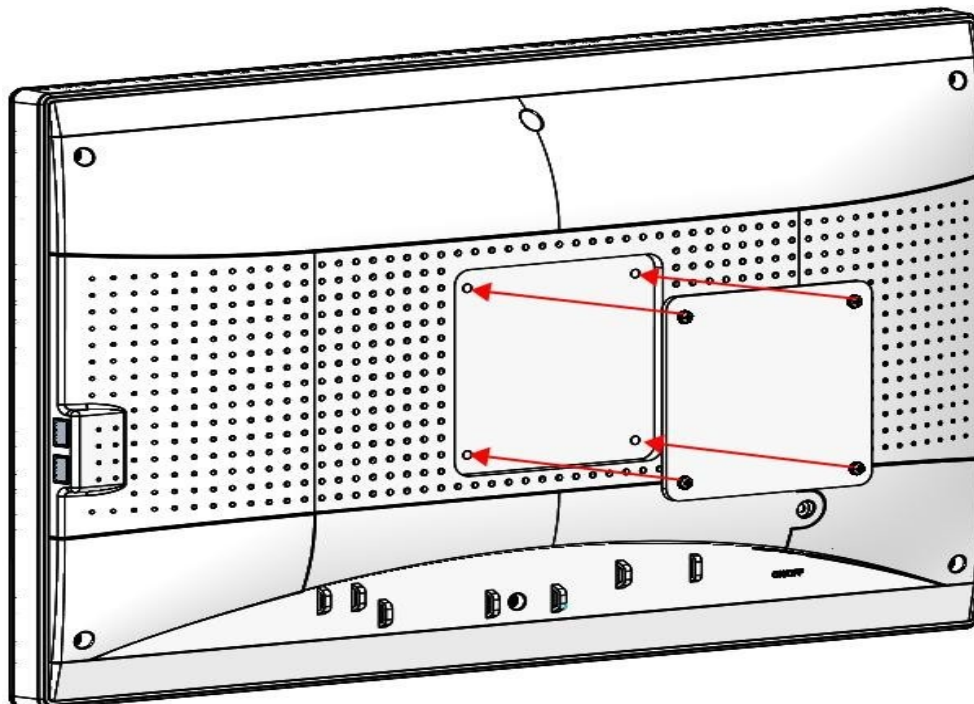
4.1 Connection

Connect all cables to the corresponding connectors as shown in the following figure.



4.2 Non-standard base mounting

Place the gasket in the base groove before installing the base or bracket lock



4.3 Quick start

Power on the monitor, the power indicator will become green. Start the computer to set the display mode as below.

Resolution: 1920X1200 Refreshing frequency: 60 Hz

If the image cannot be shown, please refer to "Troubleshooting" of this manual for help.



WARNING

Please use the enclosed power cord to connect the standard power outlet.

Please ensure that the monitor's power plug can be fully inserted into the socket. Make sure the power cord used within the rated voltage. Or it may result in fire or electric shock.

Equipment must be connected to a outlet that grounded good.

Or it may result in fire or electric shock.



Please turn on the monitor and then computer power.

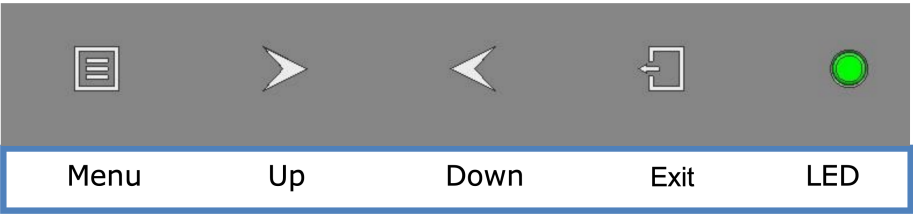
The monitor's power indicator will light (green). If the image does not appear, refer to the "failure analysis" for help. After each use, turn off the computer and the monitor.

Note:

This monitor can run for a long time, but life will be reduced. Recommended 10-minute break every hour.

5. Keys function and menu

5.1 Keys function



Keys	Situation	Action
Menu	Command	“Enter Key”
Up	Slide controller	Increase Value
Down	Slide controller	Decrease value
Exit	Sub-menu	Return to previous menu

5.2 Lock or Unlock OSD

Keys	Action
3 x Down key within 3 seconds	Lock or Unlock OSD

5.3 Description of OSD Menu

Input	Source Select	DVI/HDMI	
Image	Color Gamut	Native / BT.709	Native
	Gamma	DICOM / 2.6 / 2.4 / 2.2 / 2.0 / 1.8	2.2
	Color Temp	9300K / 7500K / 6500K / 5500K/User	6500K
	Backlight	Adjust Backlight (0-100)	50
	Color	Sharpness	Adjust sharpness:(0-4)
		Contrast	Adjust contrast ratio:(0-100)
		Brightness	Adjust brightness:(0-100)
		Saturation	Adjust saturation:(0-100)
Setting	Language	English / 中文	English
	Display Rotate	0 ° /180 °	0 °
	Aspect	Full/16:9/4:3/5:4/Origin	Full
	OSD Position	RB/LT/RT/LB	RB
	Auto Scan	On/Off	On
	Reset	Restore to factory default	
Info		Display FW Version Main Input Main Format	

Note*

All the backlights of DICOM LUTs are not suggested to adjust since it will affect the accuracy of DICOM curve. The backlight of GAMMA LUT can be adjusted according to the application environments or application scenarios.

6. Technical specification

Monitor characteristics :	
Panel technology	24.1", TFT, color, LCD
Active area(H x V)	518.4 (H) x324.0 (V) mm
Pixel pitch	0.270 x 0.270 mm
Resolution	1920 x 1200 pixels
Contrast ratio	1000:1 (Typ)
Viewing angle(CR > 10)	Horizontal: 178° (Typ)
	Vertical: 178° (Typ)
Screen brightness	600 cd/m ² (Typ.),
Refresh rate	60 Hz
Backlight	LED
LED Life time	50000 hours
Response time	GTG:14ms (Typ)
Color support	16.78M colors (8bit)
Power supply:	
Input voltage	AC100 -240V±10%
Current (max)	1.1A
Power consumption	< 60 W
Power saving	<1 W
Control and connection :	
Front	Power Indicator Keypad
Back	HDMI*1,DVI*1,Ground*1,AC socket*1,Power switch*1

Safety regulations:		
Safety standards		CCC:GB 17625.1-2022;GB 4943.1-2022;GB/T 9254.1-2021 CE: EN60601-1-2、EN IEC61000-3-2、EN61000-3-3
Protection class		Protection class I
Dimension:		
Without packing (D x W x T)		561.2mm x 60.7mm x 371.3mm
Weight		
Monitor	Net weight	6.6 kg ± 0.5 kg
	Gross weight	9.2 kg ± 0.5 kg
Climatic conditions:		
Operating temperature		5°C ~ +40°C (Recommended 20°C ~ 30°C)
Operating humidity		15% ~ 85% Relative humidity, no condensation
Operating pressure		70KPa ~106KPa
Transport and storage temperature		-20°C ~ +60°C
Transport and storage humidity		5% ~ 90% Relative humidity, no condensation
Storage and transport atmospheric pressure range		70KPa ~106KPa

Electromagnetic Emission:

The LCD Monitor is intended to be used in professional healthcare facility environments such as clinics and hospitals

The requirements special precautions regarding EMC and during installation. You need to carefully read the EMC Information and the “PRECAUTIONS” section of this document, and observe the following instructions when installing and operating the product.

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

The LCD Monitor is intended for use in the electromagnetic environment specified below.

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

Declaration – Electromagnetic Emission

Description of Test Item	Compliance	Limits Performance Criteria	Results
Conducted Disturbance at Mains Terminals CISPR 11	Class B	Normal	Pass
Radiated Disturbance CISPR 11	Class B	Normal	Pass
Harmonic Current Emissions IEC 61000-3-2	Class D	Normal	N/A
Voltage Fluctuation and Flicker IEC 61000-3-3	Section 5	Normal	Pass
IMMUNITY (EN 60601-1-2:2015, IEC 60601-1-2:2014)			
Description of Test Item	Compliance level	Performance Criteria	Results
Electrostatic Discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 15 kV air	Normal	Pass
Radio-Frequency, Continuous Radiated Disturbance IEC 61000-4-3	Level 3: 3 V/m 80 MHz to 2.5 GHz	Normal	Pass
EFT/B Immunity IEC 61000-4-4	Level 3: ± 2 kV for power supply lines	Normal	Pass
Surge Immunity IEC 61000-4-5	± 1 kV line(s) to lines ± 2 kV line(s) to earth	Normal	Pass
Conducted RF Immunity IEC 61000-4-6	Level 2 0.15-80 MHz @ 3 VRMS	Normal	Pass
Power Frequency Magnetic Field IEC 61000-4-8	Level 4, 30 A/m	Normal	Pass
Voltage Dips, >95% Reduction, Voltage Dips, 30% Reduction, Voltage Interruptions IEC 61000-4-11		Normal	Pass

7. Supported signal format

- DVI

Video Formats	Horizontal Frequency(kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)
640×480	31.50	60.00	25.175
800×600	37.90	60.00	40.000
1024×768	48.40	60.00	65.000
1280×1024	64.00	60.00	108.000
1920×1080	67.50	60.00	148.500
1920×1200	74.04	60.00	154.000

- HDMI

Video Formats	Horizontal Frequency(kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)
640×480	31.50	60.00	25.175
800×600	37.90	60.00	40.000
1024×768	48.40	60.00	65.000
1280×1024	64.00	60.00	108.000
1920×1080	56.25	50.00	148.500
1920×1080	67.50	60.00	148.500
1920×1200	74.04	60.00	154.000

8. Cleaning and Disinfection

Regular cleaning is recommended to keep the appearance of the monitor clean and prolong the service life.

Gently wipe the dirt on the monitor shell or screen with a piece of microfiber cloth dipped with a small amount of water (tap water, distilled water or mineral water) or chemical reagent (70% - 75% alcohol).

Note:

- Please turn off the power first When cleaning the LCD Monitor.
- It is strictly forbidden to wipe the display glass with dry fibre cloth, to prevent static electricity from generating with the glass surface and causing damage to the display.
- Don't often use chemical reagent to wipe the LCD monitor; Frequent use of alcohol, disinfectant and other chemical reagents to wipe the LCD monitor may cause the shell or screen to lose luster and fade, thereby reducing the image quality.
- Don't spray detergent directly on the surface of the LCD monitor to prevent the liquid from penetrating into the equipment, damaging the internal circuit and causing equipment failure.
- The detergent should be tested and inspected before use, the other detergent that have not been tested and inspected may damage the monitor shell or screen.

9. Troubleshooting






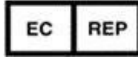




















If a problem persists even after applying the suggested remedies, please contact the dealer.

Problems	Points to check with Possible Solutions
1. No picture Indicator status: Off	Check that the power cord is correctly connected. If the problem persists, turn off the monitor power for a few minutes, then turn it back on and try again.
Indicator status: Green	Check the <Backlight> shortcut key setting.
Indicator status: Orange	- Please confirm if the signal source is normal.
2.The screen is too bright or too dark.	Adjust <Backlight>shortcut key (The backlight of the LCD monitor has a fixed life span. When the screen becomes dark or begins to flicker, please contact your dealer.)
3.After image phenomena appear	<ul style="list-style-type: none">- Make sure that whether you have used the screen saver or timer when displaying the same image for extended periods of time or not.- Afterimages are particular to LCD monitors. Avoid displaying the same image for extended periods of time.
4.The screen has defective pixels	This is due to the characteristics of the panel itself, and not the LCD product.
5.Shiatsu traces left on the screen	Keep the screen background white can solve this problem.

10. Appendix

10.1 Markings and symbols

The markings and symbols on the monitor, power supply and packing have the following meanings (nonrestrictive list).

	Caution		Earth (ground)
	Warning: dangerous voltage		Batch number
	Date of manufacture		Authorized representative in the European Community
	Manufacturer		Refer to instruction manual/ booklet
	"WEEE (Waste Electrical and Electronic Equipment)". The waste products should be handled legally.		Fragile, handle with care
	Class II equipment		This way up
	Keep dry		Temperature limitation
	Maximum number of identical packages that may be stacked, where "n" stands for the number of permitted packages		Humidity limitation
	Atmospheric pressure limitation		Indicates complies with Part 15 of the FCC rules.
	CE mark		Indicates the device is approved according to the CCC regulations
	TUV approval mark		Marking according to ACPEIP (China-RoHS) (name plate)
	Energy Conservation Certification		Magnetic Resonance (MR)-Unsafe
	UKCA mark		UK Responsible Person

10.2 Conformity declaration

This equipment is in conformity with the provisions of the CCC standard.

This equipment satisfies the following two conditions:

- (1) The device will not bring dangerous interference;
 - (2) The device will not be influenced by outer interference and cause unpredictable results.
1. To avoid interference with radio or TV receiving, please use the power adapter and cable matched; Use other cable and power adapter may interfere the other electronic equipment;
 2. This equipment has passed the standards of CCC; the device will have a wireless electromagnetic wave, incorrect installation and using will cause interference with wireless communication systems.
 3. We don't guarantee that the equipment will never produce interference when it is installed. You can judge whether the equipment can disturb radio or the television reception by the way to switch this equipment power source. Please do the following steps if there is interference to the other devices when running this equipment:
 - Adjust the angle and position of the radio or the television reception antenna;
 - Increase the distance between this equipment and the radio or the television reception antenna;
 - This equipment doesn't share the same the power input circuit with the radio or the television reception antenna;
 - Please consult the professional person if any problem;

Other ancillary equipment is connected to our monitor must also be passed CCC standards. When configures a medical system, any device is connected to the input or output of the equipment must comply with medical equipment standards IEC 60601-1. If you are unsure, please ask professional technician for help.

European Authorised Representative



SUNGO Europe B.V.
Olympisch Stadion 24,
1076DE Amsterdam, Netherlands



SUNGO Certification Company Limited
3rd floor, 70 Gracechurch Street, London.
EC3V 0HR.



10.3 RoHS information

The following product pollution control information is provided according to SJ/T11364-2006 Marking for Control of Pollution caused by Electronic Information Products.

Explanation of Pollution Control Label



This symbol indicates the product contains hazardous materials in excess of the limits established by the Chinese standard SJ/T11363-2006 Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information 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.

Component part	Hazardous substances' name									
	Pb	Hg	Cd	Cr(VI))	PBB	PBD E	DEH P	BBP	DBP	DIBP
Outer Shell	0	0	0	0	0	0	0	0	0	0
Panel/Fluorescent Tube	x	0	0	0	0	0	0	0	0	0
Circuit Board Assembly	x	0	0	0	0	0	0	0	0	0
Adapter	x	0	0	0	0	0	0	0	0	0
Housing, Chassis	0	0	0	0	0	0	0	0	0	0
Power Cord/Signal Cable etc.	x	0	0	0	0	0	0	0	0	0
<p>*: Circuit board assembly includes PCB, components and parts that it consists of, such as resistors, capacitors, ICs and connectors etc.</p> <p>0 : Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.</p> <p>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 SJ/T11363-2006</p> <p>Data listed in the table represents best information available at the time of publication.</p> <p>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.</p>										