# JUSHA Professional Display

# CR240  CR240M

# User Manual

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# Contents

# 1. Manual instructions

## 1.1 About this manual

● This manual aims to guide users to install, configure and operate JUSHA 24 inch clinical review desktop monitor properly, please read this manual carefully before use.

● When transferring the display to a third-party, please deliver this manual along with the display.

● The product specifications are subject to change without prior notice.

● We commit to provide you the accurate and practical guiding manual as much as possible and, should you find any error in the manual, please don't be hesitate to contact us and your support is appreciated.

● For any further questions about this manual, you are welcome to contact Nanjing JUSHA Display Technology Co., Ltd. (hereinafter referred to as JUSHA).

## 1.2 Explanation of symbols

The following signs and symbols may be used in the manual and for the product:

| | |
|---|---|
| 📄 | **Note** <br> Gives extra information about the described subject. |
| ⚠️ | **Warning** <br> Indicates general cautionary, warning, or danger level information. |
| ⚡ | **Electrical Shock Caution** <br> Indicates possibility of electric shock. |
| 🚫 | **Prohibition** <br> Indicates a general prohibition. |

| | |
|---|---|
| | **Mandatory Ground**<br>Indicates that a ground that must be connected by the user for a device equipped with a ground terminal. |
| | **Functional Ground**<br>Indicates conducting components are isolated from parts with dangerous voltage in the equipment. |
| | **\*China Compulsory Certification (CCC)**<br>Indicates the product meets the requirements of CCC. |
| | **\*Federal Communications Commission (FCC)**<br>Indicates the product meets the requirements of FCC. |
| | **\*Conformite European Certification (CE)**<br>Indicates the product meets the requirements of CE Certification. |
| EC REP | **European Authorized Representatives**<br>Gives information of the Authorized European representatives. |
| | **Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC**<br>Waste disposal should comply with local regulations. |
| | **Recommend to refer the User Manual** |
| | **Manufacturer information** |
| JUSHA | **JUSHA trademark** |
| SN | **Product serial number** |

\*This display complies with these standards only when a medical grade power supply is used. Power supply is specified as a part of ME EQUIPMENT.

## 1.3  Safety information

> ⚠ **Warning:**
>
> Read all the important safety information before installing and operating your display.

### Installation environment

● Please install the equipment near the convenient socket.

● Place the device on a flat, solid and stable surface that can support the weight of at least 3 devices. If you use an unstable cart or stand, the device may fall, cause injury to child or adult, and serious damage to the device.

● Never use the display in the presence of flammable anesthetics mixture with air, oxygen or nitrous oxide.

● Never expose the display to rain or moisture. Never use the display near water - e.g. near a bathtub, washbasin, swimming pool, kitchen sink, laundry tub or in a wet basement.

● Please heed necessary space between the display and the wall for ventilation. Do not cover or block any ventilation openings in the cover of the set.

● Keep small object away from the product. If small object gets into the display, please shut off power supply immediately and contact us for technical support.

### Information for power supply and grounding

● Please use power cord provided with the display.

● Please insert the plug into the socket firmly.

● Don't touch power cord or plug/unplug it when thundering, or it may cause electric shock.

● Please hold the attaching plug when you unplug it. Don't unplug it by pulling power cord, otherwise the power cord may be injured and result in electric shock.

● Do not overload wall outlets and extension cords as this may result in fire or

electric shock.

- Please use the appropriate power supply. Please use the power supply within the voltage range specified in this manual, otherwise it may cause fire, electric shock or product damage.

- If the device is not used for a long time, disconnect it from the AC inlet to avoid damage by transient over-voltage.

- To fully disengage the power to the device, please disconnect the power cord from the AC inlet.

- Please make sure that this product connected with a qualified computer or other devices, or it is connected to the protective earth.

- Make sure the display is grounded properly.

## Repair and maintenance

- Product failure may cause fire, electric shock or equipment damage. If the product gives off smoke or makes unusual noises, cut off the mains supply as soon as possible and pull out the plug from the socket. Please contact JUSHA for technical support.

- Repairing is limited to trained engineers. Do not try to repair or disassemble the product by yourself. It may cause product damage or personal injury.

- Please don't touch a damaged LCD screen with bared hand. Because the leaking liquid crystal material contains toxic substance. Please contact doctor immediately once it happens.

## Application suggestions

- For mission critical applications, we strongly recommend that a replacement unit be immediately available.

- Please avoid excessive compression on the LCD screen, which may cause damage to it.

- In order to avoid scratches, don't touch the screen with sharp objects, such as pen or fingernail. Please use a soft cloth to clean the screen.

- The operator should not touch the video interface (such as DVI port and etc.), or it may result in potential ESD (Electronic Static Discharge) damage to the display.

- The backlight of LCD has a service life limitation. We strongly suggest using this display in the recommended brightness to extend its service life.

- Please turn off the display if not use.

- Waste disposal should comply with local regulations.

- Benefiting from the FPD (Flat Panel Display) technology, this display has clearer image edge compared to a CRT display. It may take time for some new-users to get used to this change.

- If using this display improperly, potential interference to other electronic devices around could be possible. Following methods are proposed to eliminate such interference:

  ◆ Relocate or reorient the device under interference.

  ◆ Set up curtain appliance between the display and the device under interference.

  ◆ Plug the display and the devices under interference into different power sockets.

**Warning:**

In daily use, this product may cause radio interference. When it happens, it may need user to take appropriate measures.

# 2. Overview

Thanks for selecting JUSHA 24 inch clinical review desktop monitor!

● CR240 is a 24 inch clinical review desktop monitor.

● CR240 is suitable for ultrasound equipment for observation or diagnosis.

## 2.1 Product features

● **High resolution**

With the resolution of up to 2 million pixels, the product can fully display the details of medical images and support the precise diagnosis for medical institutions.

● **View with wide viewing angle**

As viewed from the edge of the display, the gray scale offset is extremely small due to the wide viewing angle.

● **Conform to GAMMA standard**

To ensure that the monitor always presents the most accurate image effect, JUSHA would carefully measure during the production of displays to ensure that the manufactured CR240 display complies with the GAMMA standard.

## 2.2 Packing list

**Note:**

● The packing list here is for reference only, subject to the one contained in the packing box.

● In case of damage or loss of any accessory in the packing list, please contact us without hesitation.

● Never use the accessory of any third party, such as the power adaptor and graphics card. Nanjing JUSHA Display Technology Co., Ltd. will not be responsible for any technical problems caused by the accessory from any third

party.

- Please keep well the original package and, if the product is transported again, the original package must be selected.

- CR240, JUSHA-CR240, CR240*, JUSHA-CR240* ("*"="0-9", "A-Z" or blank), representing different customers and sales markets, does not affect product safety and electromagnetic compatibility. The corresponding operation settings and specifications can be referred to CR240.

The packaging box of JUSHA 24 inch clinical review desktop monitor includes:

| No. | Type | Name | QTY | Remark |
|-----|------|------|-----|--------|
| 1 | Host | 24 inch LCD | 1 | |
| 2 | Accessory | Graphics card | 1 | Optional, depending on customer demand |
| 3 | Accessory | Power line | 1 | |
| 4 | Accessory | DP signal line | 1 | Optional, depending on customer demand |
| 5 | Accessory | HDMI signal line | 1 | Optional, depending on customer demand |
| 6 | Accessory | DVI signal line | 1 | |
| 7 | Accessory | User manual | 1 | |

## 2.3 Front view and keypad



The keys are not silk-screen keys (except power keys). The definition of the key is changed in different menu page. Touch any button (except the power key and the farthest from the power key), you can change the menu configuration. (See 4.5 for details)

**Indicators:**

| Items | Status |
|---|---|
| Power Key Led | Power off: Orange light is ON; Normal signal light: White light is normally ON; Signal search: white light and orange light flash alternately. |
| Other key Led | The indicator is not ON if no operation, and the key indicator is ON when the key is pressed, and OFF when the key is not pressed. |

**Note:**

The key icons are displayed in the OSD, adapted to the functions that used for display setting.

## 2.4 Rear view and connection panel
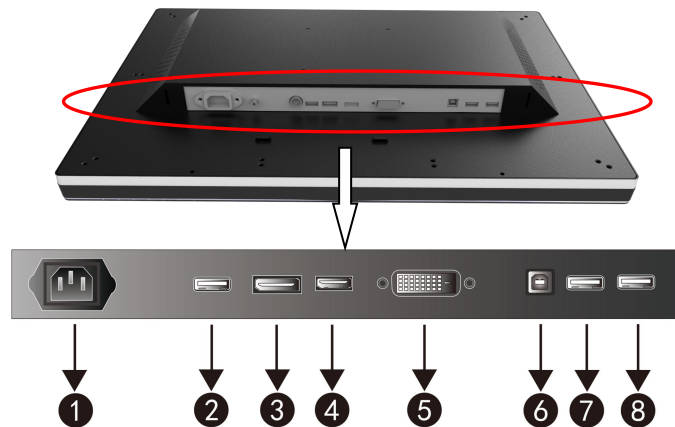


| ❶ | AC Power input | ❷ | USB port |
|---|---|---|---|
| ❸ | DP port | ❹ | HDMI port |
| ❺ | DVI-I port | ❻ | USB upstream connect(Option) |
| ❼ | USB downstream connect(Option) | ❽ | USB downstream connect(Option) |

# Overview

**Note：**

The USB port is only used for internal UART.

# 3. Display installation

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📄 **Note:**

Unpack the product and check the accessories according to the packing list. Confirm the display and accessories are complete.

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## 3.1 Connect the cables

1. Connect the video signal cable of the display to the computer. This video signal cable can be DP, DVI, HDMI, depending on the interfaces of the display and graphic card. For DVI connector, please tighten the screws of the connectors.
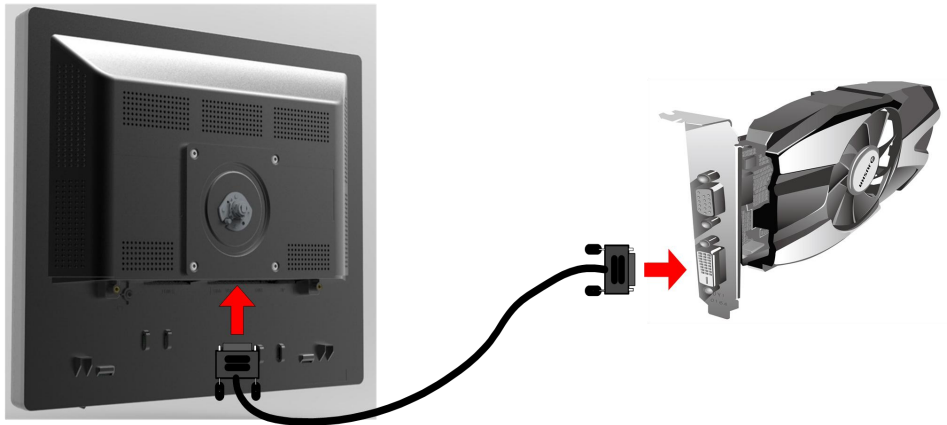


2. Connect the display to the power socket with power cable when using the built-in power supply.
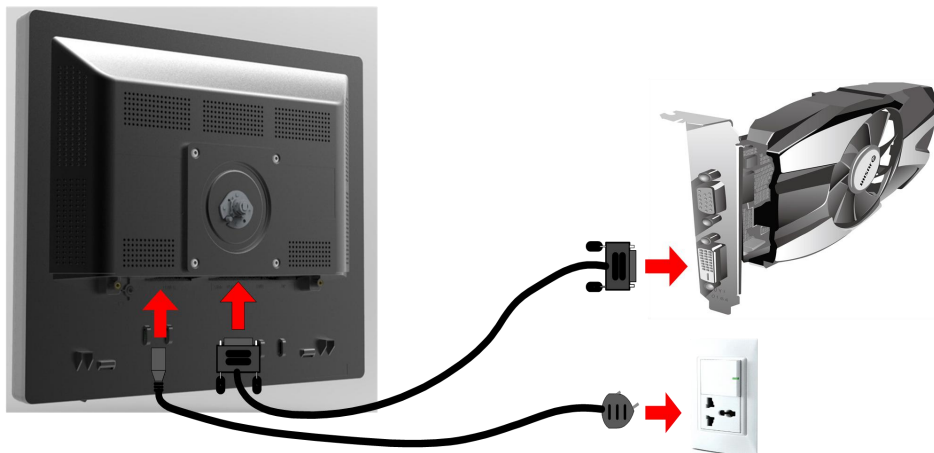
# Display installation

| Country/Area | U.S.A./Canada | EU (except U.K.) | U.K |
|---|---|---|---|
| Plug Shape |  |  |  |
| Standard | ANSI/UL 817 CSA-C22.2 No.21 | DIN VDE 0620-1:2010 | BS1363/BS546 |
| Voltage | 120V | 230V | 230V |
| Country/Area | Brazil | Japan | Korea |
| Plug Shape |  |  |  |
| Standard | NBR14136 | JIS 8303 | KSC8305:2002R |
| Voltage | 220V | 110V | 220V |
| Country/Area | Denmark | Singapore | China |
| Plug Shape |  |  |  |
| Standard | SB 107-2-D1 | SS145 | GB15934-2008 |
| Voltage | 230V | 230V | 220V |

**Warning:**

- Please use the power cord provided with this display .If the power cord is inconsistent with the table below, please contact your supplier. Please make sure the power cord matches the voltage of the power socket and has been approved by and complies with the safety standard of your particular country.

- Power Cord: The display should be powered from a center tapped circuit when used at voltages over 120V. And plug type of display

varies in different countries or areas, as shown in the following table.

● To avoid risk of electric shock, AC/DC adaptor must only be connected to a power socket with protective earth.

## 3.2  Adjust the screen Position

### 3.2.1  Adjust the screen angle

Adjust the angle of display screen, to provide the most comfortable viewing angle. The concrete operation is as follows:
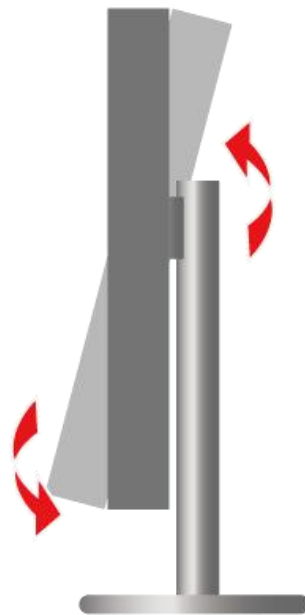


### 3.2.2  Adjust the height of the screen

The display can adjust the screen height. If you need to lift the screen, please hold both sides of the display and move the screen to the required height.
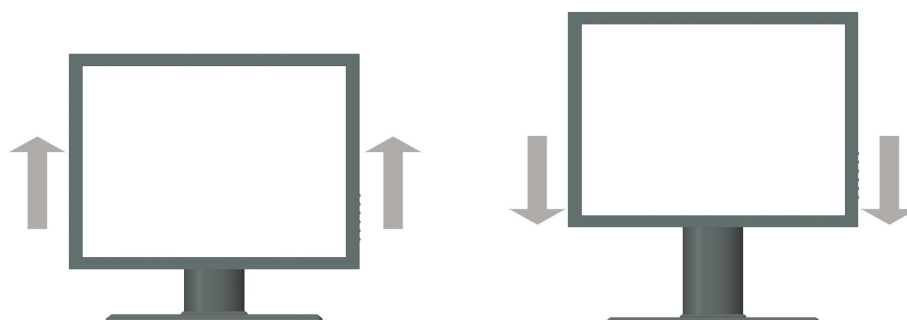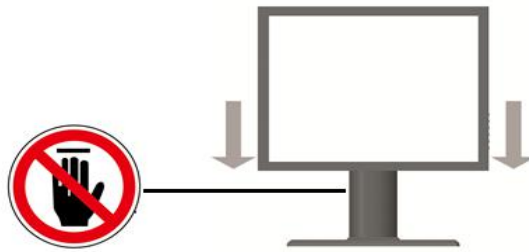
**Warning:**

● Do not touch the neck of the display when the screen is pressed down to avoid gripping.

## 3.3 VESA installation

The mounting of the display and base is compatible with VESA 100 mm standard. The display can be hung on a wall or boom in accordance with VESA 100 mm standard, which requires the base to be removed prior to hanging, and it is noted that the support arm employed should be able to support the weight of display.

**Warning:**

● Please contact our technical personnel during installation, and JUSHA's medical personnel shall not be responsible for any damage caused by the disassembly and installation without authorization.

● When installing the support arm, the length of screw entering the display shall not be greater than 8mm.

## 3.4 The order of work on the monitor and preparation for work

Turn on a computer connected to the display. Make sure that the display, graphic card and graphic card driver have been installed correctly. Turn on the computer connected to the display. When the display, graphics card and card drive is correctly installed, connect power cord, touch power key [⏻] to turn on the display and the power key LED is white. If it does not display properly, check that the input channel is correct and switch to the correct channel.

# 4. Display settings

## 4.1 Start the display

Turn on the computer connected to the display. When the display, graphics card and card drive is correctly installed, connect power cord, touch power key ⏻ to turn on the display and the power key LED is white.

## 4.2 Turn off the display

When the display is turned on, you may turn off the display by pressing the power key ⏻.When you press the power key for the first time, the display show a message "Press the power key again to close monitor". If you want to close display, touch the power key again when the message that "Press the power key again to close monitor" is shown.

Press the power key to close monitor

## 4.3 Sleep Mode

When the display is on, if the channel selected by the menu is not signaled, a standby menu appears. After the standby menu moving for 1 minute, the display enters the sleep mode. At this time, the display shows the black screen and the power key LED flickers alternately.

If you want to quit the sleep mode, the user can re-light the display by connecting the signal or turn on the display again.

## 4.4 Introduction of menu

To meet the needs of the user's working environment, the users can set different parameters of the display by using the button keys. Similarly, users can view the basic information and current settings of the display through the menu.

CR240 displays do not use silk-screen keys, so the definition of keys changes. When

you operates the keys, the corresponding icon flexibly defines the status of each key. The following table gives the corresponding icon instructions:

| Icon | Definition | Description |
|------|-----------|-------------|
| △ | Turn up | Operate this key，adjust the selected item to upward |
| ▽ | Turn down | Operate this key，adjust the selected item to downward |
| ◁ | Turn left | Operate this key，adjust the selected item to the left |
| ▷ | Turn right | Operate this key，adjust the selected item to the right |
| ✓ | Enter | Operate this key，enter the selected item |
| ↰ | Exit | Operate this key，exit the selected item |
| 目 | Menu | Operate this key，enter the Main Menu |
| 🖳 | X-radio Film Viewing (XFV) mode | Select this item to open or close the X-radio Film Viewing (XFV) mode. <br><br> Open the X-radio Film Viewing (XFV) mode, the display shows the full-white screen with highest brightness. The X-radio Film Viewing (XFV) mode icon is highlighted. <br><br> Close the X-radio Film Viewing (XFV) mode, the display shows the original image with the brightness set on menu. The X-radio Film Viewing (XFV) mode icon is normal. |

## 4.5 Adjust OSD

Users can use the keys and menu options to set different parameters of the display, so as to meet the users' needs of work environment. Similarly, users can also view the basic information and the current set about the display via menu.

### 4.5.1 Adjust Guide menu

1.  Press each key (except the power key and the farthest key from the power key), you can enter Guide Menu.

2.  ⬚ is the X-radio Film Viewing (XFV) mode icon. (See 4.4.2 for details)

3.  ⬚ is the Main Menu icon. (See 4.4.3 for details)

4.  Press ⬚ can exit Guide Menu.

5.  The Guide Menu will disappear if there is no action within 30s.

## 4.5.2 Adjust X-radio Film Viewing (XFV) mode

1.  Select the X-radio Film Viewing (XFV) mode icon ⬚ to open or close the X-radio Film Viewing (XFV) mode.

2.  When you open the X-radio Film Viewing (XFV) mode, the display shows the full-white screen with highest brightness (as shown in the figure below) and the X-radio Film Viewing (XFV) mode icon is highlighted.

3.  When you close the X-radio Film Viewing (XFV) mode, the display shows the original image with the brightness set on menu. The X-radio Film Viewing (XFV) mode icon is normal.



## 4.5.3 Adjust Main Menu

1.  Select Main Menu icon ⬚ to enter Main Menu.

2.  You can adjust the submenu parameters which shown in the figure below.

3.  Select the menu page, press the ENTER key to enter submenu, the left menu showed above is main menu, the right menu showed above is Curve submenu.

4. If the submenu is activated, user can press EXIT key to call main menu.

5. The Main Menu and submenu will disappear if there is no action within 30s.

6. The following table shows structure of the OSD menu.

| Menu page | Item | Option | Default setting |
|---|---|---|---|
| Image | Backlight | 100…500 | 300 cd/m² |
| | Curve | DICOM | DICOM |
| | | GAMMA2.2 | |
| | | CT/MRI | |
| | | User Mode 1 | |
| | | User Mode 2 | |
| | | User Mode 3 | |
| Setup | OSD Language | 中文 | |
| | | English | |
| | Input Source | DVI-D | |
| | | DP | |
| | | HDMI | |
| | Factory reset | | |
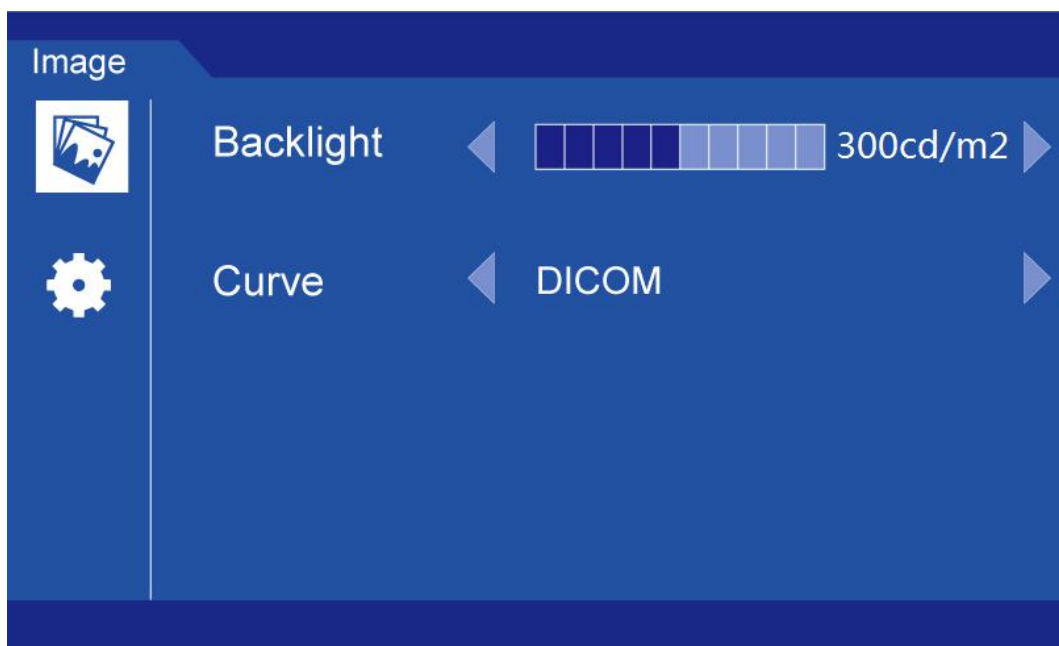
## 4.5.4 Menu factory default

| Menu Page | Item | Factory default |
|---|---|---|
| Image | Backlight | 300cd/m² |
| | Curve | DICOM |
| Setup | OSD Language | English |
| | Input Source | DVI-D |
| | Factory Reset | |
| **Guide Menu** | | **Factory default** |
| XFV | | OFF |

**Note:**

● The menu here is just a schematic diagram. Different displays' OSD menus are different. Please take the actual menu as standard.

● This product menu options and specifications are subject to change without notice.

# 5. Important Information

## 5.1 Technical specifications

| Model | JUSHA-CR240 |
|---|---|
| Input voltage | AC 100-240V~1.5-0.75A 50-60Hz |
| Standby power consumption | <0.5W |
| Consumption(nominal) | <25W |
| LCD Panel | 24 inch, TFT LCD |
| Viewing angle | Typical value H :178°;V : 178°（CR ≥10） |
| Pixels distance | 0.27 mm x 0.27 mm |
| Resolution | 1,920x1,200 |
| Visual Size | 518.4(H) x 324 (V) mm |
| Interface | DP/HDMI/DVI-D |
| Operation environment | Temperature: 0°C to 40°C<br>Humidity: 20% - 85% no condensation<br>Air pressure: 700hPa~1060hPa |
| Environment for transportation and storage | Temperature: -20°C to 60°C<br>Humidity: 10% - 90%no condensation<br>Air pressure: 200hPa~1060hPa |

**Note:**

The product specification may be subject to change without further notice.

## 5.2 Environmental information

According to the "Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products" (Also called RoHS of Chinese Mainland), All materials of this product are below the limit requirement in ROHS, without toxic or hazardous substances.

ENGLISH

## 5.3 Safety information

The safety regulations of this product meet the following standards:

| | |
|---|---|
| Safety standard | GB4943.1-2011 |
| Compliance disclaimer | CCC |

## 5.4 Electromagnetic compatibility

### 5.4.1 EMI information

| | |
|---|---|
| EMI Voltage/ Radiated interference | GB 17625.1-2012 GB/T 9254-2008 |

# 6. Maintenance

**1. Avoid screen over-heat**

Please use the display in the recommended environment, including appropriate temperature, humidity and air pressure. Turn off the display or lower its luminance if not use, or it may cause over-heat damage. In addition, if the screen displays the same image for a long time, it may over-heat and cause damage to some pixels.

**2. Maintain the proper humidity**

The display can work properly at the humidity between 20% and 85%. When humidity is higher than 85%, the condensation may occur inside the display. It makes the display components easy to rust, corroded, or even short-circuit. Therefore, LCD display must be moisture proof. If the display is not used for a long time, user should power on the display once a month at least.

If there is condensation in the screen surface, use a soft cloth to wipe gently before turn on the power. If the moisture has got into the screen, put the screen to a warm (no higher than 60°C) and dry environment to evaporate the moisture. Power a humid LCD will cause a permanent damage.

**3. Clean the display properly**

It is recommended to clean the display regularly to maintain appearance and extend product service life.

To clean the screen:

1) Wipe the screen with a clean, soft, lint-free cloth.

2) For further cleaning, apply a small amount of non-ammonia, non-alcohol based cleanser onto the cloth and wipe the screen.

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**Warning:**

1. Make sure the display is powered off before cleaning.

2. Never spray or pour any liquid directly onto the surface of the screen or case.

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Some chemical cleanser may damage the screen and case of the display. We

recommend you to use non-ammonia and non-alcohol based cleanser. We are not liable for damage resulting from ammonia or alcohol based cleanser.

**4.   Avoid shock and vibration**

The LCD screen is quite fragile, so avoid strong shock and vibration. Falling to the ground or other strong shocks will cause damage to the LCD screen and the electrical components. Besides, please avoid any heavy pressure on the LCD screen surface.

**5.   Do not disassemble the display**

Never try to disassemble the display or remove/change its LCD panel. Unauthorized repair and refit will result in temporary or permanent display failure.

**Warning:**

1.   Please do not touch the metal part of power plug to avoid electric shock.

2.   Please keep the power socket and 5V DC away from water.

3.   Please do not drop the LCD Monitor to avoid hurt yourself.

# 7. Cleaning and Disinfection

## 7.1 Cleaning

It is recommended to clean the monitor regularly to maintain appearance and prolong product cycle life.

• Make sure the monitor is turned off.

• Never spray or pour any liquid directly onto the screen or case.

To clean the screen:

1. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.

2. If still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.

Disclaimer

JUSHA does not recommend the use of any ammonia or alcohol-based cleaners on the monitor screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the monitor. JUSHA will not be liable for damage resulting from use of any ammonia or alcohol based cleaners

## 7.2 Disinfection

It is recommended to disinfection the monitor using 75% alcohol regularly to disinfection the LCD Monitor.

1. Make sure the monitor is turned off.

2. Wipe the screen with a clean, soft, lint-free cloth.

Attention: Never spray or pour alcohol directly onto the screen or case.

# 8.  Malfunction analysis

> **Note:**
> Please contact us if failed to resolve problem after reading the recommended solutions followed.

To solve the problem, please contact Nanjing JUSHA display technology co., Ltd after-sales service or read the manual to find proper solutions. If you use the recommend below solution still can't solve the problem, please contact Nanjing JUSHA display technology co., Ltd.

| Problems | Probable solutions |
|---|---|
| The monitor does not respond | Check that the monitor's Power Switch is on. You turn on the system. Turn off the power and check the monitor's power cord and signal cable for proper connection. |
| Screen too bright or dark | Modify <Backlight><br><br>(There if life cycle limit for backlight of monitor. When it becomes dark or vibrant, please contact us.) |
| Appear ghost | Please confirm in long time display the same image, whether to use screen savers or timer. Ghost is caused by the liquid crystal monitor itself characteristic, should avoid long time display the same image. |
| Leave traces on the screen to pressure. | Keep the screen is completely white can alleviate this problem. |
| Restart the computer graphics installed after found no new hardware tips | Graphic card is not inserted or PCI slot has a problem, change slot to install |
| Snowflake on screen | 1. Connection problem of power wire or signal wire<br><br>2. Main board static electricity or dust affection the connection of graphic card. |
| No figure after displaying well for a while | 1. Connection problem of power wire or signal wire<br><br>2. Main board static electricity or dust affection the connection of graphic card. |

# 9. Declarations

## 9.1 Legal notice

The auxiliary equipment that is connected with JUSHA display should meet the corresponding IEC Standard (data processing equipment should meet IEC 60950-1 Standard and armamentariums should meet IEC60601-1 Standard). In addition, all configurations should meet IEC 60601-1-1 Standard. Before a configuration is connected to signal output or input interface for processing system configuration, technician should make sure that the system meets IEC 60601-1-1 Standard.

Staffs that are responsible for connecting the display with system should make sure that installed devices meet IEC 60601-1-1 Standard. If there is any question, please contact with JUSHA Engineering Technology Service Department or local marketing representatives.

JUSHA markets its products through armamentarium manufacturers, distributors and franchisers. Therefore, please consult your seller whether he/she provides relevant maintenance service.

JUSHA will neither take any responsibility nor authorize anyone to take any responsibility for product distribution and its use. Please read carefully the related documents, operation instruction and labels on package before you apply the product so that you can use and maintain the product properly.

Please note that its performance will be affected by system configuration, software, application program and client's data and client's operating control. Though JUSHA product is compatible with many systems, client's specific function might be come true differently. Whether the product is suitable for specific purpose or application program it depends on clients, therefore, JUSHA should not guarantee for it.

JUSHA expressly disclaims all warranties of any kind, whether statutory, express or implied, including, but not limited to, implied warranties of merchantability, fitness for particular purpose and non-infringement. JUSHA hereby explicitly rejects all warranties and state of any kind, any property or extent whether statutory, express or it leads to any laws ,rules, commercial practice, conventions or trade

disputes etc.

In no event shall JUSHA and its suppliers/franchisers be liable for any special, incidental, punitive, indirect or consequential damages (including, but not limited to, delay deliver, non-delivery, fault items, product design or production manufacture, being unable to use the product and service, loss of business or profits or other reasons, and any responsibility caused by buy or sell, lease, install or use related products, these terms and conditions and related articles of agreement.

The limits in this article and/or exclusions are not necessary suitable for some inadmissible exclusion clause, warranties or limited judicial districts. The maximum extent is permitted by applicable law in named jurisdiction under the circumstance.

JUSHA keeps patents, copyright and its exclusive right and all information in this manual including JUSHA all designs and related materials. Anyone cannot plagiarize JUSHA design or copy its product to sell or use without the company's explicit authority.

## 9.2 After-sale service declaration

The after-sale warranty is three years from the date of purchase, only if the product has been used with the recommended brightness. We are responsible for the quality problems caused by non-artificial factors and the maintenance are free of charge.

**Note:**

The user must contact and get permission from JUSHA before sending back the product for repairs.

To avoid the damage and/or loss during transit, the user must deliver the product in its original package or other adequate package with an equal degree protection to the local distributor. Meanwhile, user must present proof of the product purchase date.

The user is not allowed to repair the display from anywhere except the authorized after-service spots. The original serial number should not be modified or removed. Don't derogate from requirements of this manual, otherwise it may result in quality assurance failure.

This product provides limited responsibility for quality assurance. JUSHA isn't responsible for malfunction caused directly/indirectly/accidentally by users themselves. Users should pay attention to the settings of the operation system and other applications. Above factors will affect the product performance.

Manufacture will provide circuit diagrams, component part lists, descriptions, calibration instructions to assist to SERVICE PERSONEL in parts repair.

## 9.3 Proprietary rights

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# 10. Contact information

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