

User Guide

Read the User Guide thoroughly before using Hisense LCD monitor and keep it properly for future reference.

RSAG2.025.7172SS B Version

Hisense website: www.hisense.com



Preface

Dear users,

Hello. Thank you for purchasing Hisense LCD monitor, which will provide you with satisfying display effect. Read the User Guide thoroughly before using the LCD monitor and keep it properly for future reference. Hisense shall not be liable for any accidents arising from violations of the safety precautions and use instructions of the User Guide.



Hisense national customer service hotline: 4009940707

Hisense service quality supervision tel: 0532-83091111



Only the repair personnel are allowed to repair the LCD monitor and replace its components. Failure to comply will result in electric shock and fire.



Clean the equipment by using a piece of clean, soft cotton cloth. Do not wipe repeatedly with a strong force.

Do not scratch, knock, or impact the screen with hard objects, or rub it with abrasive agents.

Protect the LCD monitor from water drops and splashes during storage and use.



Safety Information and Precautions

Read the following information thoroughly before using the LCD monitor:

❖ Remarks

- The LCD monitor is intended for use in the target sales regions. If it is used outside these regions, its performance may be different from the specifications.
- It is recommended that you use the specified accessories of the LCD monitor, which can be used only with the spare parts and accessories that are manufactured or specified by Hisense.
- It takes about 30 minutes for the electronic components of the LCD monitor to achieve stable performance. It is recommended that you start the LCD monitor in advance to ensure display accuracy.
- Condensation may form inside and outside the LCD monitor if the LCD monitor is of low temperature and moved into a room or the room where it is located experiences fast temperature rise. Wait until the condensation disappears before starting the LCD monitor. Failure to comply will damage the LCD monitor.
- It is recommended that the LCD monitor be used with brightness slightly lower than the normal level. This helps avoid brightness change due to long-term use and maintain stable brightness.
- It is recommended that you clean the LCD monitor exterior periodically to extend its service life.
- Do not perform cleaning and maintenance when the LCD monitor is energized. Disconnect the LCD monitor power cable whenever possible.

❖ Description and Maintenance of the LCD monitor

The screen is a key component of the LCD monitor and requires periodic maintenance.

- . Do not squeeze the edges of the LCD monitor or frame. Failure to comply may cause display failure.
- Do not touch or press the screen with any sharp object. Failure to comply may damage the screen.
- Do not wipe the screen with a paper towel. Failure to comply may scratch the screen.
- Keep the monitor housing and the screen away from organic solvents such as alcohol and gasoline as well as chemical reagents such as acid and alkali. Failure to comply may reduce image display quality and change and diminish the luster or color of the monitor housing and screen.
- Do not clean the monitor housing or screen with any diluent, benzene, wax, and abrasive cleaning agent that may damage the monitor housing and screen.
- It is recommended that the surfaces of the monitor housing and panel be cleaned with special screen cleaning cloth.
- If necessary, after power-off, use a small piece of clean, soft cloth soaked with water to clean the monitor housing and screen to remove dirt from the surface. Do not wipe repeatedly with force.

❖ Safety Precautions

- The LCD monitor has passed safety certification testing and can be used reliably and safely. Please read this section and the precautions on the LCD monitor thoroughly to ensure safe use and



Safety Information and Precautions

correct maintenance and to avoid accidents and man-made damage. Contact Hisense if you encounter any problems when using the LCD monitor.

- Use the dedicated power adapter delivered with the LCD monitor. The adapter's input voltage is 100–240 V AC, its frequency is 50/60 Hz, and its output voltage is 24 V DC. When the power adapter is damaged, contact Hisense or an authorized distributor. Do not use another type of power adapter.
- To avoid hazards, do not place the LCD monitor on a soft pad. If the LCD monitor will not be used for a long time, disconnect its power cable. The LCD monitor contains hazardous high voltage inside, so do not disassemble it by yourself. If the LCD monitor is abnormal, contact Hisense or an authorized distributor.
- Ensure that no sundries exist in the surrounding area of mains disconnection devices, such as the switch, power plug, and appliance coupler, and that these devices are easy to operate.
- Ensure that the socket in use is qualified and certified by a national safety standard, and prevent socket overload.
- Keep the LCD monitor away from any high-temperature and heat-generating object.
- Use a dedicated power adapter with the CCC certification mark that is compatible with the LCD monitor.

Important Information

- The pictures in this document are for reference only and may be different from the appearance of the actual product. The information in this document is subject to change without notice.
- This document provides instructions on correctly installing and using the LCD monitor. Please keep it properly. If it is lost, contact Hisense.



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Overview

Thank you for purchasing Hisense LCD monitor, which complies with the DICOM Part 14 standard and is applicable to DSA, MRI, DR, CR, CT, and PET medical imaging. It is intended for professionally trained medical staff and provides the image viewing and medical diagnostic functions.

Features

- Environmental friendliness:

The LCD monitor is equipped with an energy-efficient LED backlight LCD panel with a long service life. The backlight is driven by low voltage, which eliminates the hazardous radiation to the body and environment.

- Front-facing sensor calibration:

The LCD monitor supports gray scale inspection and automatic calibration by using the front-facing sensor and quality control software.

- Digital ports:

It has multiple input interfaces (two DVI-Ds, one HDMI, and two DPs). It supports the following functions: DP daisy chain, simultaneous display of two signal sources, built-in Picture by Picture (PBP), Picture in Picture (PIP), multi-channel independent GAMMA correction. It also supports adjusting the image mode of each window independently to match the characteristics of their respective signal sources.

- Human sensor:

It automatically identifies whether the operator is in front of the monitor and automatically makes the monitor enter and awake from the sleep status to save electricity and prolong the display service life.

- HD display and processing technology:

With a resolution of 3280x2048, the monitor can accurately display images in each mode, without any blur or distortion.



Overview

Technical Specifications

Model		HMD6C30S
Name		LCD monitor
LCD monitor panel	Size	30 inches
	Panel type	Color LCD panel (IPS)
	Resolution	3280x2048
	Display area	(H) 645.504 x (V) 403.046 (mm)
	Pixel pitch	0.197 (H) x 0.197 (V) (mm)
	Contrast	950:1 (typ.)
	Visible angle	Horizontal: 170° (CR ≥ 10)
	Response time	30 ms (typ.)
	Standard brightness	1050 cd/m2 (typical)
	Max. number of gray scales/single subpixels displayed	1024 gray scales/single subpixels (for DP 10-bit input)
Power input		24 V DC, 6.25 A
Power consumption	Maximum power	150 W
	Energy saving mode	0.5 W
input signal connector		DVI-D connector
		DisplayPort connector
		HDMI connector
Output signal connector		DisplayPort connector
Dimensions (W x H x D)	System (with the base)	700 x 516-626 x 274 mm
	System (without the base)	700 x 478 x 68 mm
Quality	Net weight (excluding the base)	About 13.2 kg
	Net weight (with the base)	About 17.5 kg
Movable range		Inclined: 15° upward and 5° downward; adjustable height: 110 mm
Pitch (VESA standard)		100 x 100 (mm)
Environment conditions	Temperature	Operating: 0°C to 50°C Storage/transportation: -20°C to 60°C
	Humidity	Operating: 20%-90% RH, no condensing Storage/transportation: 10%-90% RH, no condensing
	Atmospheric pressure	Operating: 70-106 kPa Storage/transportation: 20-106 kPa
Execution standard		Q/0202RSR 631 LCD Monitor



Overview

Accessories

If any of the following accessories is lost, purchase it from the local distributor.

Accessory	Quantity	Remarks
Power adapter	1	Input: 100-240 VAC, 50-60 Hz Output: 24 VDC
Power cable	1	
DP-DP signal cable	2	
DVD-ROM	1	User manual and monitor quality control software
Graphics card	1	
Image clip	1	
Quick installation manual	1	

Note

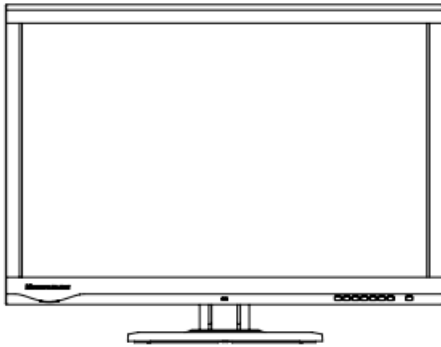
- The accessory list is for reference only. If any component is lost or damaged, promptly contact Hisense or the specified distributor. Keep the original package properly. If you need to return this product, be sure to use the original package. Do not place any heavy weight on top of the package during transportation.
- Please use special power adapters with CCC certification marks adapted to this product.



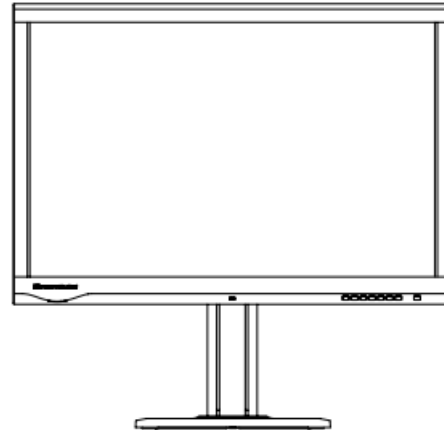
Installation

Front and Rear Views of the LCD Monitor

Original packaging



The monitor is lifted to the highest position



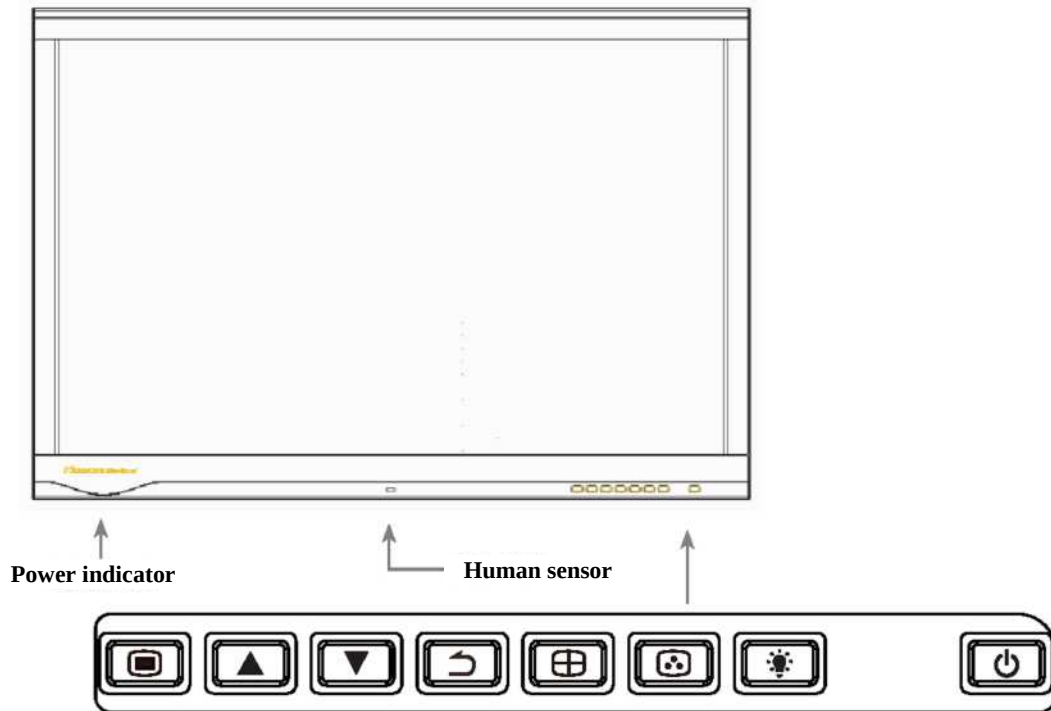
CAUTION

- When adjusting the height of the monitor, hold the left and right sides of the monitor with both hands. Do not put your hands directly under the monitor to avoid pinching your hands when the monitor reaches the lowest level.
- The monitor can only work in the horizontal mode now.



Installation

Front View of the LCD Monitor and Buttons



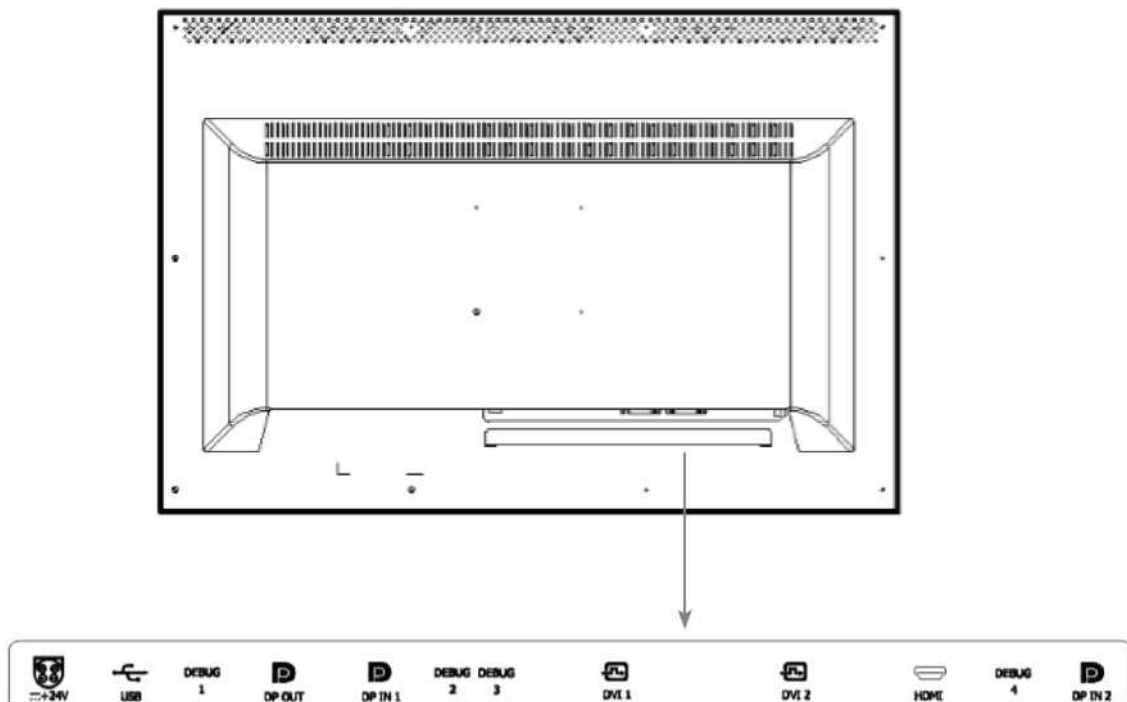
Button	Function
 Menu	MENU/selection button The main menu is displayed when no menu option is available. OK is displayed when a menu option is available.
 Upward	When no UI is displayed, the Upward button is used to call out the one-click highlight function, and the Downward button is used to adjust the backlight brightness. When you press Upward/Downward , the backlight brightness increases/decreases.
 Downward	
 Back	It is used to return to the previous menu. When no menu is available, it is used to call out the Image Enhancing function.
 Display mode	The display mode shortcut button. It is used to switch among the Single, PBP, and PIP modes.
 Image Mode	The image mode shortcut button. It is used to switch among the following image modes: DICOM, CT, MRI, DR, DSA, Video, Text, Hybrid GAMMA, and User.
 Film viewing indicator	It is used to switch among three film clip modes and exit the film clip modes.
 Power	It is used to enter and exit the standby mode.

Note

Installation

- When the monitor is in standby mode, you can press any button to awake it.
- If no operation is performed, the shortcut operation page automatically disappears in 3s and the Settings menu automatically disappears in 15s.
- If you do not need to use the monitor for a long time, press **Power** to power off the monitor or remove the power plug to save the energy.

Rear View of the LCD Monitor and Input Ports



Port	Function
Power port	Connected to the power adapter.
DEBUG 1, 2, 3, and 4	It is used for product debugging and parameter setting.
DP IN, DVI, and HDMI	Connected to the digital output port on the graphics card of the PC.
DP OUT	It can be connected to DP inputs of other monitors.
USB (downlink port)	Connected to the keyboard and mouse only. Output: 5 V, 0.5 A. It must be used together with the uplink USB port of DEBUG 1.

Hanging Arm Installation

Remove the base assembly to install the required hanging arm or base.

- Follow the instructions in the User Guide when installing the hanging arm or base.
- Before using the hanging bracket or base provided by another manufacturer, ensure that it meets the following requirements and complies with the VESA standard:
 - Screw hole spacing: 100 mm x 100 mm
 - It is solid enough to bear the weight of the monitor (excluding the base) and accessories, such as cables.
- Before using the hanging bracket or base provided by another manufacturer, use the following screw:
 - Fix the base to the monitor screws (GB/T 819.1-2000 M4x14).
- When using the hanging arm or base, install it based on the following inclination of the monitor:
 - 15° upwards and 5° downwards
- Connect cables after the hanging arm or base is installed.
- Do not move the removed base vertically. Failure to comply may result in injury or equipment damage.
- The monitor and the hanging arm/base are heavy. Their falling may result in injury or equipment damage.

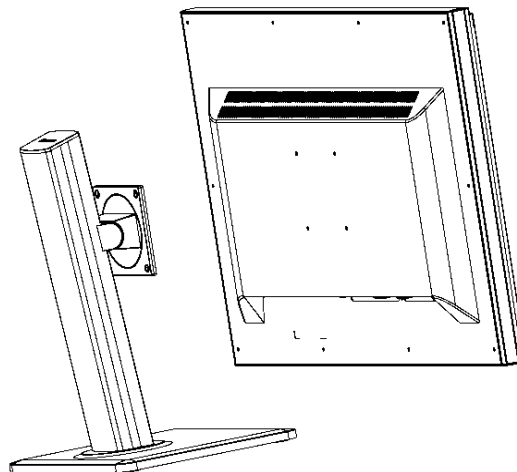
❏ Installation procedure

- 1) Place the LCD monitor on a stable bench top covered with a piece of soft cloth, with the panel surface facing down.
- 2) Uninstall the base.

Remove the screw rubber stoppers and unfasten the four fixing screws on the monitor and base by using a screwdriver.

- 3) Install the hanging arm or bracket on the monitor.

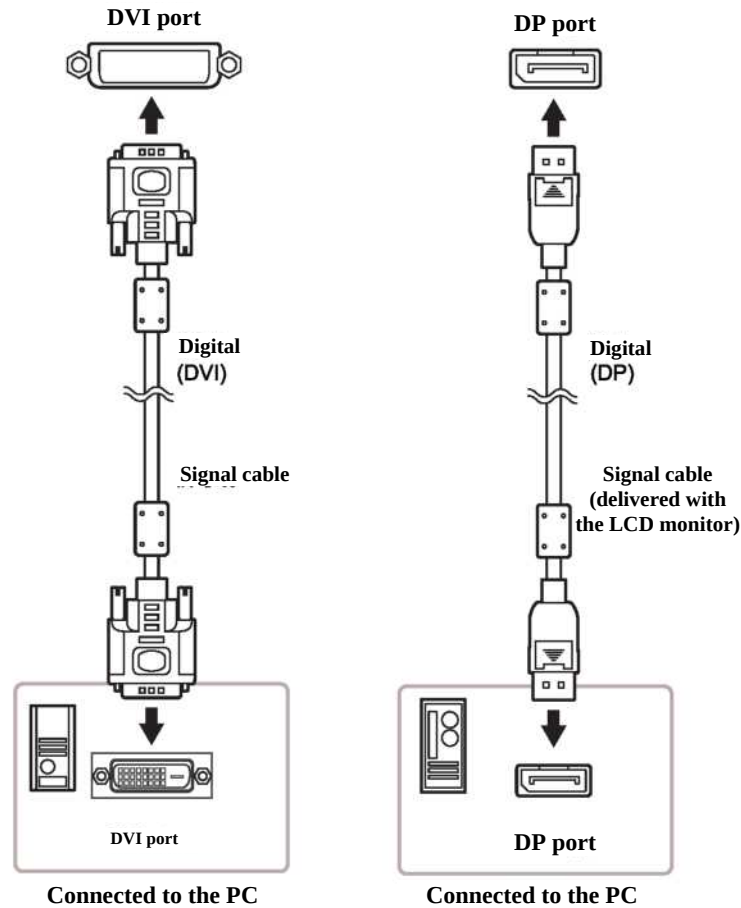
Fix the monitor on the hanging arm or base by using the screws specified by the User Guide.



PC Connection

1. Connect the signal cable

Check the shape and mark of the signal connection port, connect the signal connection port to a PC signal cable, and tighten the screws of the connector to fix the connection. The following takes the DVI and DP signal cables as an example:



2. Insert the power adapter to the power socket and the power connector on the monitor.
3. After the power is turned on, the power indicator turns green and the monitor starts to work.

Operational Instructions and Function Adjustment

Menu Adjustment

❖ Main Menu Display

- ☐ In the power-on state, press  to call out the **User** menu and press  to close the menu.
- ☐ The following table lists the configurable items of the menu.

Main Menu	First-level Menu	Second-level Menu	Remarks
Display Mode	Single		
	PBP		
	PIP		
Signal Input	Single	DVI1, DVI2, DP1, DP2, and HDMI	
	PBP		
	PIP		
Image Settings	Windows	Window 1	
		Window 2	
	Image mode	DICOM	
		CT	
		MRI	
		DR	
		DSA	
		Video	
		Text	
		Hybrid GAMMA	
		User	
	Zoom	Full Screen	
		Scale Screen	
		Dot to Dot	
	Backlight		See the section "Backlight Settings Description".
	Image Enhancing	Off	
		Level 1	
		Level 2	
		Level 3	
		Level 4	
		Level 5	
		Level 6	
	Advanced Settings	Brightness	0-100
		Contrast	0-100
		Color Temp.	6500K/7500K/8500K/9300K/Original/Eye Care/Custom
		Gamma	DICOM/CT/MRI/DSA/DR/1.8/2.0/2.2/2.4/2.6

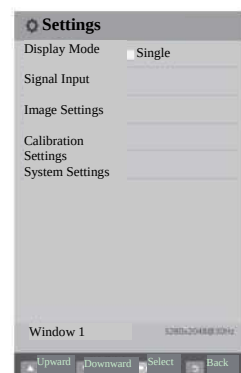


Operational Instructions and Function Adjustment

Main Menu	First-level Menu	Second-level Menu	Remarks
Calibration Settings	Auto Calibration	Execution Result	This function is available only in Single mode. This function is available in 30 minutes after power-on.
	Auto validation	Execution Result	
System Settings	Menu Settings	Language	Chinese and English
		Menu Location	Bottom Left, Bottom Right, and Center
		Menu Transparency	High/Medium/Low
	Power	Off	
		High	
		Low	
	Ambient Sensor Light	On	
		Off	
	Human Sensor	On	
		Off	
	Auto Awake	On	
		Off	
	Monitor Info	Version	
		SN	
		Product Usage Time	
		Backlight Usage Time	
	Extra Function	Multi-Window Settings	Three/Four/Back to original mode
		Logo Set	On/Off
	Factory Reset	Confirm and Cancel	

❖ Setting and Adjustment

- ❑ Press  on the monitor to call out the **User** menu.
- ❑ Press ▲ or ▼ to select the main menu item to be adjusted and set and press  to enter the lower-level menu.
- ❑ In each menu, you can perform the following operations:
 - Press ▲ or ▼ to select an item. The selected item has a blue background.
 - Press  to confirm the operation or go to the next menu.
 - Press ▲ or ▼ to adjust the value.
- ❑ Press  to return to the previous menu or close the current menu.



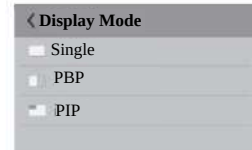
❖ User Menu-Display Mode

- ❑ In the power-on state, you can adjust the display mode of the monitor.

Operational Instructions and Function Adjustment

Procedure:

- 1) In the **User** menu, press ▲ or ▼, select **Display Mode**, and then press  to enter the **Display Mode** sub-menu.
- 2) Press ▲ or ▼ to select the item to be adjusted and then press . The system automatically switches to the selected display mode.
- 3) Press  to return to the previous menu.



❖ User Menu-Signal Input

- ❑ You can set different signal sources for each window in different display modes.

Procedure:

In the **User** menu,

- 1) press ▲ or ▼ to select **Signal Input** and then press  to enter the **Signal Input** sub-menu.
- 2) Press ▲ or ▼ to select a target display mode and its window.
- 3) Press  to enter the signal source list.
- 4) On the signal source list page, press ▲ or ▼ to select the target signal source, and press . The system automatically returns to the **Signal Input** menu.
- 5) Press  to return to the **User** menu.



❖ User Menu-Image Settings

- ❑ You can set different signal sources for each window in different display modes.

Procedure:

- 1) In the **User** menu, press ▲ or ▼ to select **Image Settings** and then press  to enter the **Image Settings** menu.
- 2) Press ▲ or ▼ to select the target item and then press  to enter the corresponding sub-menu.
- 3) In the **Windows** menu, you can select the window you want to set in multi-window mode. The default value is **Window 1**.
- 4) In the **Image Mode** menu, you can set different image modes for the selected window.
- 5) In the **Zoom** menu, you can set an image zooming mode for the selected window. Options are **Full Screen**, **Scale Screen**, and **Dot to Dot**.



Operational Instructions and Function Adjustment

- 6) As for the settings of the **Backlight** menu, see the description below.
- 7) In the **Image Enhancing** menu, six enhancing modes are available. The default value is **Off**.
- 8) In the **Advanced Settings** menu, you can set **Brightness**, **Contrast**, **Color Temp.**, and **Gamma**.
- 9) Press  to return to the **User** menu.

Note:

Backlight Settings

The **Backlight** menu supports custom brightness and nine default brightness gears. In all image modes, you can input 0-100 under **Custom** to adjust the brightness. In DICOM mode, you can select among the 200, 250, 300, 350, 400, 450, 500, 550, and 600 (unit: nit) gears.

❖ User Menu-Calibration Settings

- ☐ In **Single** mode, this function is used to calibrate and validate the DICOM curve.

Procedure:

- 1) In the **User** menu, press **▲** or **▼** to select **calibration settings** and then press  to enter the **calibration settings** menu.
- 2) Press **▲** or **▼** to select the target item and then press  to enter the corresponding sub-menu.
- 3) **Auto-calibration:** In **Single** mode, this function can be used to calibrate the DICOM curve and query the previous calibration result.
- 4) **Auto-validation:** In **Single** mode, this function can be used to validate the DICOM curve and query the previous validation result.
- 5) Press  to return to the **User** menu.

Note:

- 1) This function is available only in **Single** mode.
- 2) This function is available 30 minutes after the system is powered on.



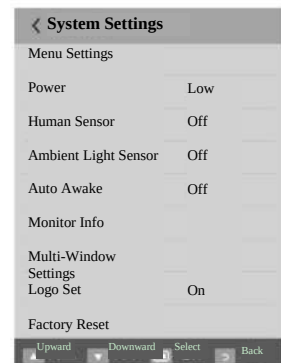
Operational Instructions and Function Adjustment

❖ User Menu-System Settings

- ❑ In the power-on state, you can set other functions for the monitor.

Procedure:

- 1) In the **User** menu, press ▲ or ▼ to select **System Settings** and then press **Enter** to enter the **System Settings** menu.
- 2) Press ▲ or ▼ to select the target item and then press **Enter** to enter the corresponding sub-menu.
- 3) In the **Menu Settings** menu, you can set **Language**, **Menu Location**, and **Menu Transparency**.
- 4) In the **Power** menu, you can set the power indicator brightness to **High**, **Low**, or **Off**.
- 5) In the **Ambient Light Sensor** menu, you can set the sensor to **On** or **Off**.
- 6) In the **Human Sensor** menu, you can set the human sensor to **On** or **Off**.
- 7) In the **Auto Awake** menu, you can set whether to awake the monitor when a DP1 communication signal is coming in the standby state.
- 8) In the **Monitor Info** menu, you can view **Version**, **SN**, **Product Usage Time**, and **Backlight Usage Time** of the monitor.
- 9) In the **Extra Function** menu, you can set the display mode to **Three**, **Four**, or **Back to original mode**, or set **Logo Set** to **On** or **Off**.
- 10) In the **Factory Reset** menu, you can restore the monitor parameters to factory defaults.
- 11) Press **Return** to return to the **User** menu.



Troubleshooting

Troubleshooting

Before repair, check the following table to see if you can identify the cause of the fault.

If the fault persists after you follow the instructions in the User Guide, you can consider repair.

Fault Symptom	Solution
The power indicator does not light on.	● Check whether the power plug is securely connected to the socket. ● Check whether the power adapter supplies power properly. ● Ensure that the power adapter parameters meet the requirements of the LCD monitor. ● Check whether Power is set to Off in the menu.
The power indicator lights on in orange.	● Check whether the signal cable is securely connected. ● Check whether the graphics card output resolution of the PC meets the optimal resolution required by the LCD monitor. ● Disconnect and then reconnect the signal cable, or restart the PC.
The image is blurred, the screen displays interference stripes, or characters show prominent edge colors.	● Check whether wiring is secure. ● It is recommended that the connection cables delivered with the LCD monitor be used. ● Restart the PC.
The image is abnormal.	● Check whether the output resolution of the graphics card is proper. ● Tap All Reset to restore all display parameters of the image to the default settings.
The entire or part of the screen shows blurs (colored irregular thin stripes).	● This is due to mismatch between the PC's graphics card output format and that of the LCD monitor. Check the signal output format. ● Restart the PC.
The image cannot be displayed in full screen mode, and the screen edge shows blurs.	● This is due to mismatch between the PC's graphics card output format and that of the LCD monitor. Check the signal output format.



Safety Statement

- ☐ This device has been tested and proven to meet the requirements of GB4943.1-2011 Safety of Information Technology Equipment, GB9254-2008 Information Technology Equipment - Radio disturbance characteristics - Limits and method of measurement, and GB17625.1-2012 Electromagnetic compatibility - Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).
- ☐ When the LCD monitor is used with a medical imaging system, ensure that the equipment connected to the LCD monitor's signal I/O complies with medical equipment standards.
- ☐ The electromagnetic waves emitted by power supply equipment may affect the use of the LCD monitor and damage it. Install the LCD monitor in an environment free of electromagnetic wave interference.
- ☐ If the LCD monitor generates interference or reacts to interference, take one or more of the following measures:
 - Adjust the position or direction of the affected equipment.
 - Increase the distance between the LCD monitor and the affected equipment.
 - Consult Hisense.
- ☐ Use the power adapter and power cable provided by Hisense, and ensure that the LCD monitor is properly connected to ground.
- ☐ Do not modify or retrofit the LCD monitor by yourself. Failure to comply with cause interference and damage to the LCD monitor.
- ☐ Equipment classification
 - Anti-lightning class: Class I
 - operating mode: continuous
 - IP rating: IPX0



Environmental Protection Information

Environmental Protection Information

- The LCD monitor meets the environmental protection requirements of the *Administrative Measures for Limiting the Use of Hazardous Substances in Electrical and Electronic Products*.
- During its environmental-friendly service life, the LCD monitor does not cause leakage and precipitation of harmful substances and other problems affecting the health of users in the process of use, so it can be used safely.
- Waste recycling precautions

If the LCD monitor is no longer required or has reached the end of its service life, please abide by the laws and regulations on recycling and treatment of waste electrical and electronic products of your country, and send the LCD monitor to the local manufacturer with state qualification of waste recycling and treatment. The recycling manufacturer shall properly dispose of the components containing harmful substances.

- Environmental-friendly service life

The environmental-friendly service life identifier printed on the LCD monitor's nameplate and storage box indicates that the LCD monitor has a 10-year environmental-friendly service life.

Environmental-friendly
service life identifier



Names and content of harmful substances in the LCD monitor

Component	Harmful Substance					
	Lead and Its Compounds	Mercury and Its Compounds	Cadmium and Its Compounds	Hexavalent Chromium and Its Compounds	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Circuit board assembly	X	○	○	○	○	○
LCD screen	X	○	○	○	○	○
Power cable and connection cable	X	○	○	○	○	○
Non-flame-retardant plastics and polymer components	○	○	○	○	○	○
Flame-retardant plastics and polymer components	○	○	○	○	○	○
Metal components	X	○	○	○	○	○

This table is prepared based on SJ/T 11364.

○ means that the content of the toxic and harmful substances in all the homogeneous materials of the components is below the limit requirements specified in GB/T 26572.

X: The content of the harmful substance in at least one homogeneous material of the components exceeds the limits specified in GB/T 26572.

Maintenance Disclaimer

Maintenance Disclaimer

- ☐ Qingdao Hisense Medical Equipment Co., Ltd. guarantees that within five years from the date of purchase, if the buyer uses the product correctly as instructed by the User Guide but encounters equipment failure, parts damage, or monitor brightness not reaching the brightness value recommended in the User Guide, Hisense will repair or replace the product according to its own judgment.
- ☐ The warranty period is five years from the date of purchase under the circumstance that the product is used with the brightness recommended in the User Guide and that the conditions for maintaining the recommended brightness are guaranteed. The brightness guarantee period applies when the service time of the product is not more than 30,000 hours (brightness is 400 cd/m²).
- ☐ Hisense will not take warranty responsibility for the following situations:
 - The product is faulty due to the buyer's retrofitting, modification, overuse and misuse, accidents, incorrect installation, natural disasters, or improper maintenance by a third party other than Hisense and authorized distributors.
 - The product ages because it has been used with brightness above the recommended value in the User Guide for a long time.
 - The product is faulty and damaged due to external equipment.
 - The product is faulty because its original serial number is modified or eliminated.
 - Any component of the product ages, especially the LCD screen, accessories, consumables, and sensors.
- ☐ During repair, Hisense and authorized distributors will use replacement parts that meet the quality control standards Hisense. Hisense shall not be liable for the infringement damage caused by the buyer's unreasonable use or unauthorized disassembly, repair, or alteration.
- ☐ Hisense and authorized distributors, after their repair operations, will not be responsible for any damage or loss of the data or other information stored in any media or any component of any product.
- ☐ The warranty period of any product that has been installed as a replacement part or repaired based on the instructions of the User Guide will terminate at the end of the original warranty period.



Appendix: List of Terms

- ❑ Digital Imaging and Communications in Medicine (DICOM)
DICOM was jointly developed by American College of Radiology (ACR) and National Electrical Manufacturers Association (NEMA).
DICOM-compatible device connections can transmit medical images and data. DICOM Part 14 specifies the standard display functions of medical gray scale images.
- ❑ Digital Visual Interface (DVI)
DVI is a digital video interface standard for transmitting uncompressed digital video data to display devices.
DVI is a type of basic electrical connection based on the electronic protocol called Transition Minimized Differential Signaling (TMDS).
DVI interfaces are divided into the DVI-D interface (which only receives digital signals) and the DVI-I interface (which receives analog and digital signals).
- ❑ DisplayPort (DP)
DP is a high-definition digital presentation interface standard for connecting computers and displays. DP interfaces support HDCP digital content protection protocols and can transmit HD audios and videos through a single cable.
- ❑ Gamma
The relationship between the LCD monitor's brightness and its input voltage is non-linear. A smaller gamma value generates an image with lower contrast, whereas a greater gamma value generates an image with higher contrast.
- ❑ In-Plane Switching (IPS)
The IPS screen technology is an LCD panel technology introduced by Hitachi in 2001. Five generations of IPS have been developed: IPS, S-IPS, AS-IPS, IPS-PRO, and IPS-NEO.
- ❑ Lux
Lux is a unit of illumination, in which a luminous flux of 1 lux equals 1 lumen (LM) uniformly distributed over an area of 1 m².
- ❑ Number of pixels
Resolution indicates the accuracy of an image displayed on the screen, measured by the number of displayed pixels. For example, a monitor with a resolution of 2048x1536 consists of 1536 vertical pixels and 2048 horizontal pixels.
- ❑ Pixel pitch
Pixel pitch indicates the distance between two adjacent pixels of the same color (red, green, or blue) on the screen.
- ❑ Relative humidity (RH)
RH is the percentage of the actual vapor density in unit volume air compared with the saturated vapor density at the same temperature.
- ❑ Video Electronics Standards Association (VESA)
VESA is an international organization that develops video equipment standards for computers and small workstations, and has been committed to developing and promoting display-related standards.





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