

LCD Display Wall Unit

User's Manual








Foreword

General

This manual introduces the maintenance and configuration of the LCD Display Wall Unit (hereinafter referred to as "the Device"). Read carefully before using the Device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
 TIPS	Provides methods to help you solve a problem or save time.
 NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.2	Updated temperature requirement.	July 2022
V1.0.1	Updated product name.	April 2022
V1.0.0	First release.	December 2020

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the Device, hazard prevention, and prevention of property damage. Read carefully before using the Device, and comply with the guidelines when using it.

Installation Requirements



- This is a class A product. In a domestic environment this may cause radio interference in which case you may be required to take adequate measures.
- Do not place the Device in a place exposed to sunlight or near heat sources.
- Keep the Device away from dampness, dust, and soot.
- Install the Device on a stable surface to prevent it from falling.
- Install the Device in a well-ventilated place, and do not block its ventilation.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Note that the power supply requirements are subject to the device label.
- The Device is a class I electrical appliance. Make sure that the power supply of the Device is connected to a power socket with protective earthing.
- The appliance coupler is a disconnection device. Keep it at a convenient angle when using it.

Operation Requirements



- Improper use of the battery might result in a fire or explosion.
- Replace unwanted batteries with new batteries of the same type and model.
- Use the standard power adapter. We will assume no responsibility for any problems caused by the use of a nonstandard power adapter.
- Use the power cords that are recommended for the region and conform to the rated power specifications.



- Do not drop or splash liquid onto the Device, and make sure that there is no object filled with liquid on the Device to prevent liquid from flowing into it.
- Operate the Device within the rated range of power input and output.
- Do not disassemble the Device without professional instruction.
- Use the Device under allowed humidity and temperature conditions.
- Operating temperature: 0 °C–40 °C (32 °F–104 °F).

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1 Maintenance

1.1 Environmental Requirements

- The Device can only be installed indoors. We recommend the room where the Device is installed be equipped with air conditioner. The Device cannot be operated in environment with high humidity and heavy dust.
- Do not block the vent of the Device and the airflow around it; otherwise the temperature of the Device will increase, and fire might occur.

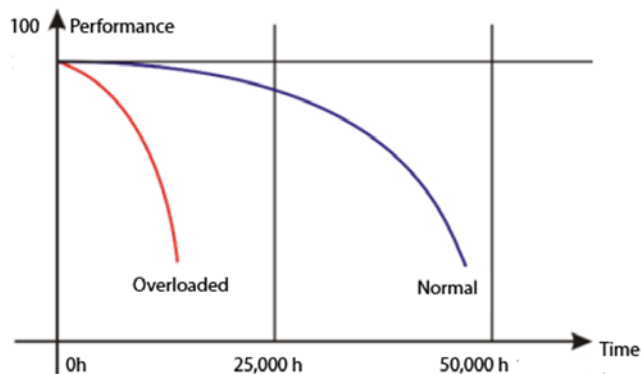
1.2 Maintenance Tips

Comply with the maintenance rule strictly to prolong the life span of the Device and to implement energy conservation and emission reduction.

Operating Time

Because of high temperature, electronic products will age rapidly if they are operated for a long time. The relation of operating time and performance of the Device is as follows.

Figure 1-1 Performance



To prolong the life span of the Device and save maintenance expenses, follow the suggestions below.

- If the Device has worked for 10 hours, turn it off and then turn it on after 15–30 minutes.
- If the Device has worked for 7×24 hours, turn it off and then turn it on after 2 hours.

Temperature, Humidity and Ventilation

- The appropriate ambient temperature range for the Device is 22 ± 4 °C, and the appropriate relative humidity range is 30%–70%, no condensation. There must be no great temperature and humidity difference.

- If the Device is used in environment with high temperature and humidity, there will be tiny water drops on the surface and frame of the Device. The water drops will flow inside the Device. As a result, the glass structure will be damaged, and the liquid crystal molecule aggregation and outflow will occur. The phenomenon is displayed in Figure 1-2.

Figure 1-2 Liquid crystal leakage



During the operation, pay attention to the bellow points.

- Before turning off the Device, make sure that the temperatures of the air conditioners in the server room and the room where the Device is installed are the same.
- If the Device has been off for a long time, check if there are water drops on the surface. If there are water drops, do not dry the surface with wet cloth. Dry the surface with absorbent paper, do not power the device, and contact the after-sales personnel.



Free warranty service is not applicable to damage (includes but not limited to the damage to the Device and damage to the user or the third party) caused by incorrect use and maintenance.

Cleaning

- Use degreasing cotton or cloth to clean the screen.
- The ideal detergent is isopropanol or n-hexane. Do not use ketone (such as acetone) to clean the screen.
- Before you clean the screen, pull the plug out of the socket.
- Wet cloth is not allowed to clean the Device because there will be tiny water drops on the surface and frame of the Device. The water drops will flow inside the Device. As a result, the glass structure will be damaged, and the liquid crystal molecule aggregation and outflow will occur.
- The panel is fragile. As a result, you cannot press or scratch the surface of the screen with great force.

Power Supply

Stable 100–240 V single phase power supply is needed; otherwise the Device cannot work normally. To get stable voltage and prevent damage result from electrical surge, use the stabilized voltage supply.

Storage Requirement

- If the Device is not in use for a long time, cover it with the dust-cloth.

- If the Device has not been used for over six months before you start to use it again, do dust removal first, or contact professional company to do the maintenance.



If the Device is not in use for a long time, it will gather dust and heat radiation will be influenced.

Dust-Proof Requirements

During debugging and operation, the dust concentration of the working area should not exceed 10 mg/m³.

If the Device must be used in environment with high temperature and high humidity, or the Device must be in single display mode for a long time, we strongly recommend you to contact engineers of our company to get suggestions. Otherwise the reliability and performance could be greatly influenced.



Airports, banks and stock markets are places with great dust and wide differences in temperature and humidity.



Playing a static image for a long time can cause a burning screen. If you want to play a static image, switch to a dynamic video every 2 hours and play it for more than 15 minutes.

2 Packing List

Check Table 2-1 to see whether the components are complete.



The appearance, items, or quantity might be different depending on the model that you purchased.

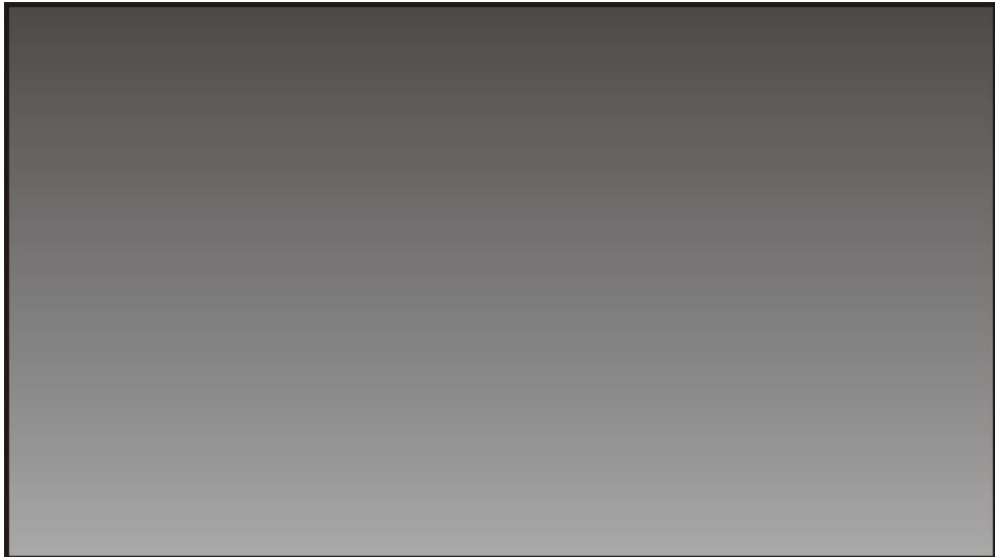
Table 2-1 Packing list

Component	Quantity
LCD display wall unit	1
AC power cable	1
HDMI cable	1
Network cable	1
Remote control	1
AAA battery	2

3 Device Introduction

3.1 Appearance

Figure 3-1 Appearance



3.2 Port

Figure 3-2 Port

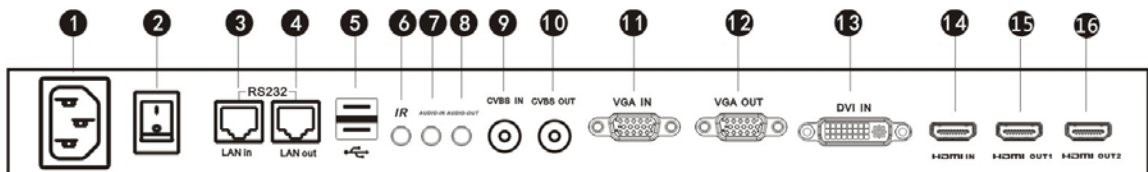


Table 3-1 Port description

No.	Port	Function
1	Power input port	Inputs AC power.
2	Power switch	Controls the on and off of the AC input port.
3	LAN in	An RJ-45 port that inputs RS-232 signals. It controls the screen.
4	LAN out	An RJ-45 port that outputs RS-232 signals.
5	USB2.0 port	For multimedia playing and upgrade.
6	IR port	Connected to the IR extension cord.
7	Audio in	Inputs audio signals.
8	Audio out	Outputs audio signals.
9	CVBS input	Inputs CVBS signals.
10	CVBS output	Outputs CVBS signals.

No.	Port	Function
11	VGA in	Inputs VGA signals.
12	VGA out	Outputs VGA signals.
13	DVI in	Inputs DVI signals.
14	HDMI in	Inputs HDMI signals.
15	HDMI out 1	Outputs HDMI signals.
16	HDMI out 2	Outputs HDMI signals.

3.3 Remote Control

Remote control is a must-have device. For functions of its buttons, see Table 3-2.



Make sure to keep the remote control safe if the Device is installed in public areas.

Table 3-2 Button functions

Picture	No.	Name	Function
	1	Power	Power on/Standby.
	2	Address	Address setting (dedicated to monitors).
	3	Signal source	Signal source selection. <ul style="list-style-type: none"> TV1: Switch signals to CVBS signal. TV2: Switch signals to CVBS signal. VGA: Switch signals to VGA signal. HDMI: Switch signals to HDMI signal. DVI: Switch signals to DVI signal.
	4	FRZ	Pause button, used to stop playing videos.
	5	Signal format	Displays current input signals.
	6	Version info	Displays version of the system.
	7	Menu	Press Menu to display or exit the menu. Press Menu to confirm the operation you have done.

Picture	No.	Name	Function
	8	Direction button	<p>Left and right direction button: Use direction buttons to select items on the left or right of the current parameter on the screen (if you have selected voice, you can use these buttons to adjust the volume).</p> <p>Up and down direction button: Use it to select items up or below the current item you have selected on the screen.</p>
	9	Image mode	Select image mode.
	10	Brightness	Select brightness mode.
	11	Number buttons	Press number buttons to enter numbers.
	12	Enter	Press Enter to confirm and enter the multimedia page.
	13	Return	Press Return to exit the multimedia page.

4 Menu Configuration

Use the remote control to configure parameters for the Device. Press the Menu button to bring up the menu.

Figure 4-1 Menu

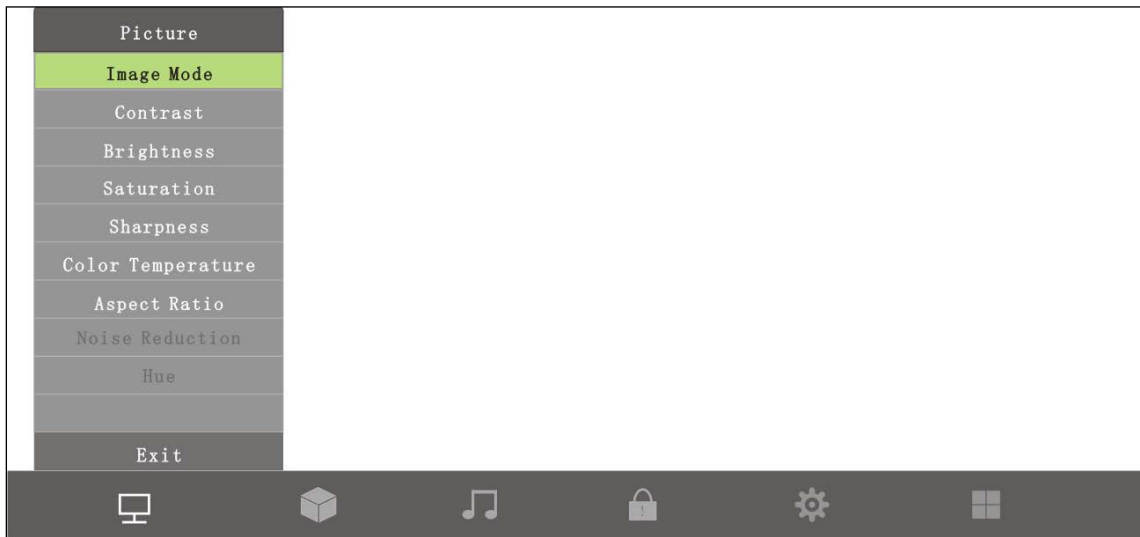









Table 4-1 Icon description

Icon	Description
	Image icon, used to set imaging effect for the Device.
	Geometric icon, used to set positions for images.
	Sound icon, used to adjust volume for the videos played on the Device.
	Advanced icon, used to do advanced settings to images.  Advanced options must be set by professional personnel.
	System icon, used to configure parameters for the system.
	Input source icon, used to select signal mode.



- Press Menu on the remote control, the menu bar is displayed on the Device, and then you can adjust relevant parameters.
- Press Menu on the remote control or select **Menu** on the menu bar to exit the current menu.

4.1 Picture

Press Menu on the remote control, and then the Picture menu bar is displayed by default.

Figure 4-2 Picture

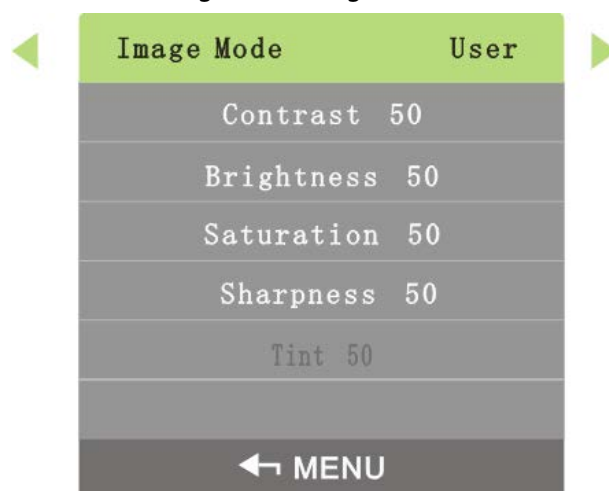


4.1.1 Image Mode

You can adjust the overall effects of images through image mode.

Step 1 Press Menu on the remote control.

Figure 4-3 Image mode



Step 2 Adjust the image mode by the left and right buttons on the remote control according to your requirement.



- There are four image modes: user mode, dynamic mode, standard mode, and soft light mode.
- You can only adjust contrast, brightness, saturability, and acutance in the user mode.

4.1.2 Contrast

You can adjust the luminance or color of images to make objects in images distinguishable by adjusting contrast.

Step 1 Select **Image > Contrast**.

Figure 4-4 Contrast



Step 2 Adjust the contrast by the left and right buttons on the remote control according to your requirement.



The range of contrast is 0–100.

4.1.3 Brightness

You can adjust the brightness of images.

Step 1 Select **Image > Brightness**.

Figure 4-5 Brightness



Step 2 Adjust the brightness by the left and right buttons on the remote control according to your requirement.



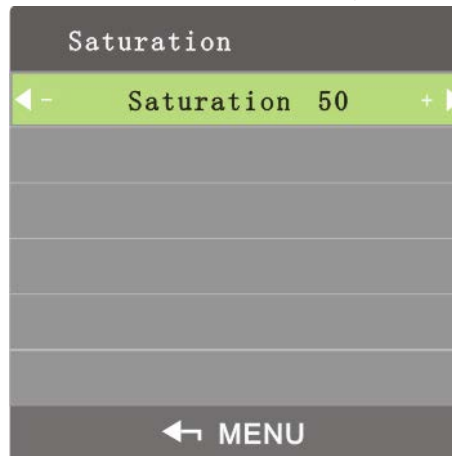
The range of brightness is 0–100.

4.1.4 Saturability

You can adjust lightness and darkness of images by adjusting saturability.

Step 1 Select **Image > Saturability**.

Figure 4-6 Saturability



Step 2 Adjust the saturability by the left and right buttons on the remote control according to your requirement.



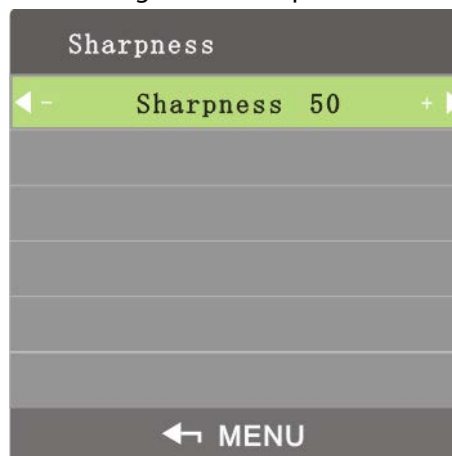
The range of saturability is 0–100.

4.1.5 Sharpness

Definition of images can be adjusted by adjusting sharpness. The higher the sharpness is, the clearer the images are, and image noise might occur.

Step 1 Select **Image > Sharpness**.

Figure 4-7 Sharpness



Step 2 Adjust the sharpness by the left and right buttons on the remote control according to your requirement.



The range of sharpness is 0–100.

4.1.6 Color Temperature

You can adjust color temperature of images.

Step 1 Select **Image > Color Temperature**.

Figure 4-8 Color temperature



Step 2 Adjust color temperature by the left and right buttons on the remote control according to your requirement.



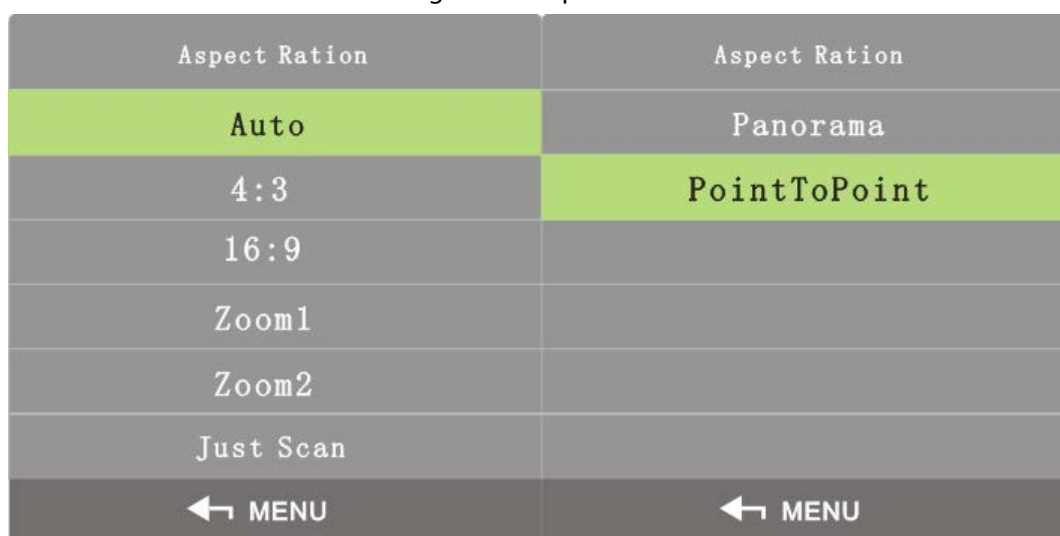
- Color temperature has four types: cool, standard, warm, and personal.
- Only in user mode can you adjust the value of red, green, and blue.

4.1.7 Aspect Ratio

Display scales can be adjusted by adjusting aspect ratio.

Step 1 Select **Image > Aspect Ratio**.

Figure 4-9 Aspect ratio



Step 2 Select **Aspect Ratio** by the up and down buttons on the remote control according to your requirement.

Table 4-2 Parameters of zoom mode

Parameter	Descriptions
Auto	Display scales are automatically adjusted.
4:3	Images are displayed on the scale of 4:3.
16:9	Images are displayed on the scale of 16:9.
Zoom 1	Magnifies images on a certain scale.
Zoom 2	Magnifies images on a certain scale. Scales in Zoom 2 are larger than scales in Zoom 1.
Just Scan	Display the same native resolution as the video source.
Panorama	Display in full screen.

PointToPoint	Point to point display.
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Different signal modes have different zoom modes.

Step 3 Press Menu on the remote control to complete the setting.

4.1.8 Noise Reduction

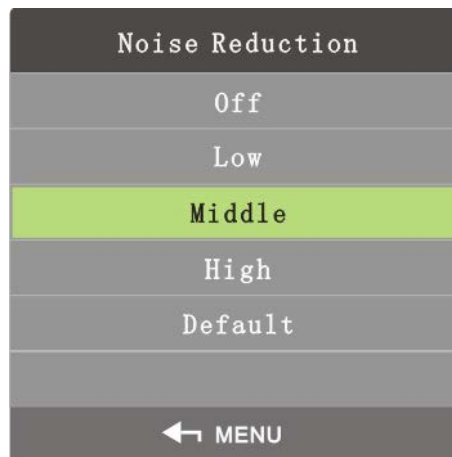
To improve quality of images, adjust the noise reduction.



Only in CVBS signal mode can you select image noise deduction function.

Step 1 Select **Image > Noise Reduction**.

Figure 4-10 Noise reduction



Step 2 Select noise reduction parameters by the up and down buttons on the remote control according to your requirement.

Step 3 Press Menu on the remote control to complete the setting.

4.2 Geometry

Different signal modes have different geometry parameters.

DVI/HDMI/CVBS Signal

You cannot set Geometry parameters in DVI, HDMI, and CVBS signal modes.

VGA Signal

On the main menu, press the left and right direction buttons until the **Geometry** page is displayed.

Figure 4-11 Geometry (VGA)



H-Position

H-Position is used to adjust the horizontal position of the Device.

Step 1 On the **Geometry** menu, select **H-Position**.

Figure 4-12 H-position



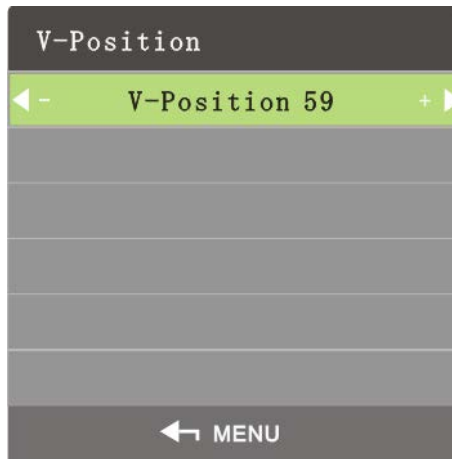
Step 2 Adjust the horizontal position by the left and right buttons on the remote control according to your requirement.

V-Position

You can adjust the vertical position of the Device by adjusting v-position.

Step 1 On the **Geometry** menu, select **V-Position**.

Figure 4-13 V-Position



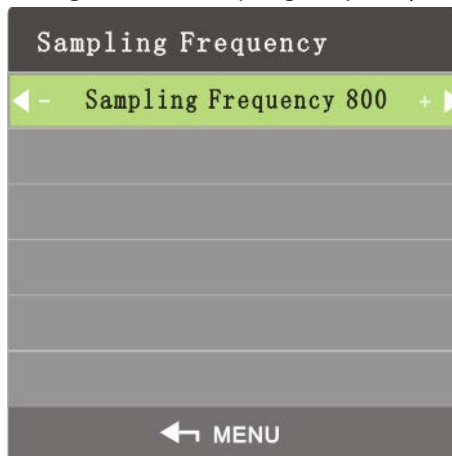
Step 2 Adjust the vertical position by the left and right buttons on the remote control according to your requirement.

Sampling Frequency

Sampling frequency is the number of samples per second taken from a continuous signal. The higher the frequency, the more accurate the signals are.

Step 1 On the **Geometry** menu, select **Sampling Frequency**.

Figure 4-14 Sampling frequency



Step 2 Adjust the sampling frequency by the left and right buttons on the remote control according to your requirement.

Phase

Phase is the position of a point in time on a waveform cycle.

Step 1 On the **Geometry** menu, select **Phase**.

Figure 4-15 Phase



Step 2 Adjust phase by the left and right buttons on the remote control according to your requirement.

Auto Adjust

The position of the Device can be automatically adjusted.

Step 1 On the **Geometry** menu, select **Auto Adjust**.

Figure 4-16 Auto adjust



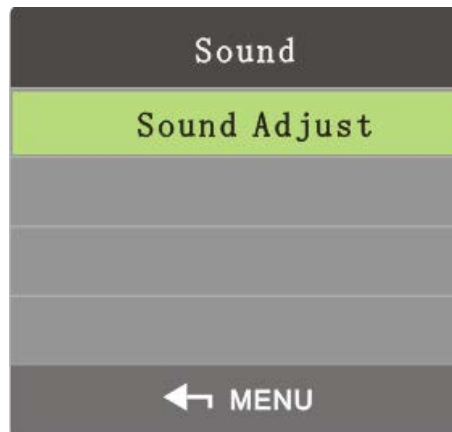
Step 2 Press Menu on the remote control, and then the position of the screen will be automatically adjusted.

4.3 Sound

On the main menu, press the left and right direction buttons until the **Sound** page is displayed.

Step 1 Press the left and right direction buttons on the remote control to select **Sound**.

Figure 4-17 Sound



Step 2 Select **Sound** > **Sound Adjust**.

Figure 4-18 Sound adjust



Step 3 Adjust the on and off status of the sound adjust by the left and right buttons on the remote control.



If you select off, then the Device is in silent mode.

4.4 Advanced

On the main menu, press the left and right direction buttons until the **Advanced** page is displayed.

Figure 4-19 Advanced



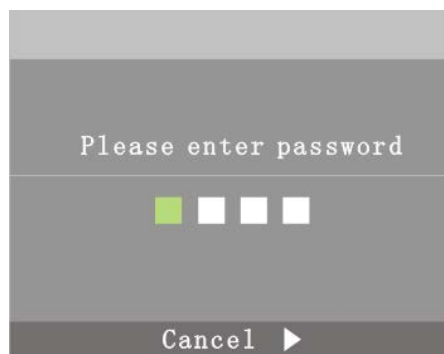
4.4.2 Advanced Menu



If you are not professional personnel, do not change parameters in the **Advanced** menu.

You can select **Advanced** by the up and down buttons on the remote control.

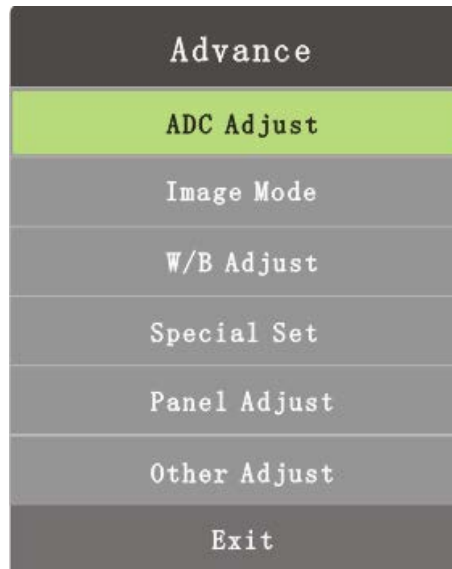
Figure 4-20 Enter passwords



The default password is 8888.

On the **Advanced** page, technical personnel can configure parameters for ADC calibration, image mode, white balance, special settings, screens and more.

Figure 4-21 Advanced



4.4.3 Software Update (USB)

Press the up and down direction buttons on the remote control to select **Software Update (USB)**, and the system will search USB storage device.



The software update files must be stored at the first level directory; otherwise, the files cannot be identified.

4.4.4 Mirror Image

Press the up and down direction buttons on the remote control to select **Mirror Image**. And then the image will be inverted, and you can do actions according to your requirement.

4.5 System

On the main menu, press the left and right direction buttons until the **System** is displayed.

Figure 4-22 System



4.5.1 OSD Language

You can set on screen display language.

Step 1 Select **System > OSD Language**.

Figure 4-23 OSD language



Step 2 Select the OSD language by the left and right buttons.



OSD language includes English and Chinese.

Step 3 Press Menu on the remote control to complete the setting.

4.5.2 OSD Duration

OSD duration is the time displayed on the screen.

Step 1 Select **System > OSD Duration**.

Figure 4-24 OSD duration



Step 2 Set OSD duration by the left and right buttons on the remote control according to your requirement.



- There are four choices for the OSD duration: off, 30 s, 60 s, and 180 s.
- If you select off, the menu will not disappear automatically.

4.5.3 OSD Blending

OSD blending is used to set the transparency for the menu.

Step 1 Select **System** > **OSD Blending**.

Figure 4-25 OSD blending



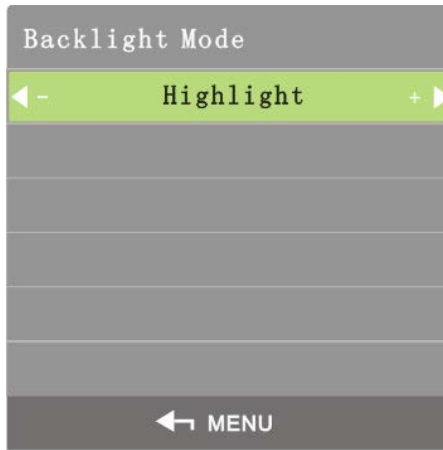
Step 2 Adjust the menu transparency by the left and right buttons on the remote control according to your requirement.

4.5.4 Backlight Mode

Backlight mode is used to set the backlight luminance for screens.

Step 1 Select **System** > **Backlight Mode**.

Figure 4-26 Backlight mode



Step 2 Adjust backlight mode by the left and right buttons on the remote control according to your requirement.



There are three backlight modes: **Highlight**, **Normal**, and **Eco**.

4.5.5 Soft Address Switch

Soft address switch is used to set soft address switch.

Step 1 Select **System > Soft Address Switch**.

Figure 4-27 Soft address switch



Step 2 Set soft address by the left and right buttons on the remote control according to your requirement.

Table 4-3 Soft address parameters.

Parameter	Descriptions
Row address	Row address of the screen.
Column address	Column address of the screen.
Row range	Row range of the screen.
Column range	Column range of the screen.
Unit display	There are two options: On and Off .

4.5.6 Restore Settings

Restore settings is used to restore the system to factory settings.

Step 1 Select **System > Restore Settings**.

Figure 4-28 Restore to factory settings



Step 2 Select whether to restore to factory settings by the left and right buttons on the remote control according to your requirement.

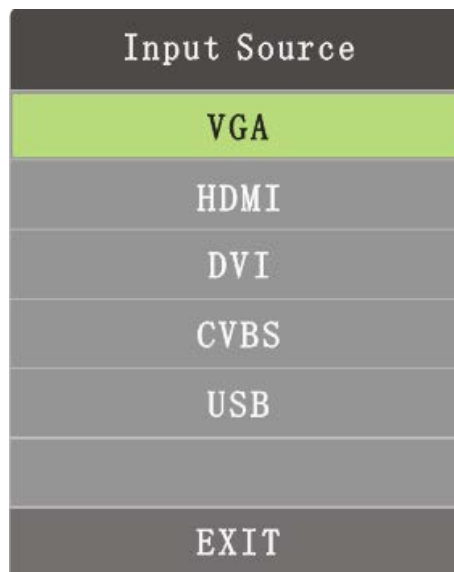
Step 3 Press Menu on the remote control to complete the setting.

4.6 Input Source

You can select input signal source types for the Device.

Step 1 On the main menu, press the left and right direction buttons until the **Input Source** page is displayed.

Figure 4-29 Input source



Step 2 Select input signal source types by the up and down buttons.

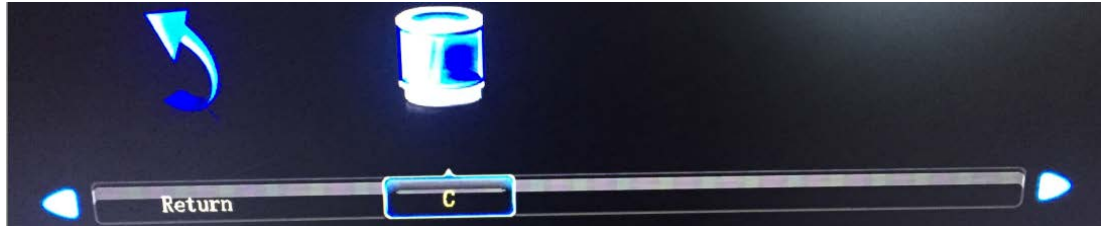
- VGA, HDMI, DVI, and CVBS
Press Menu to select the needed input signal source types.
 - USB
- 1) Press Menu, and the multimedia play setting page is displayed.

Figure 4-30 Multimedia (1)



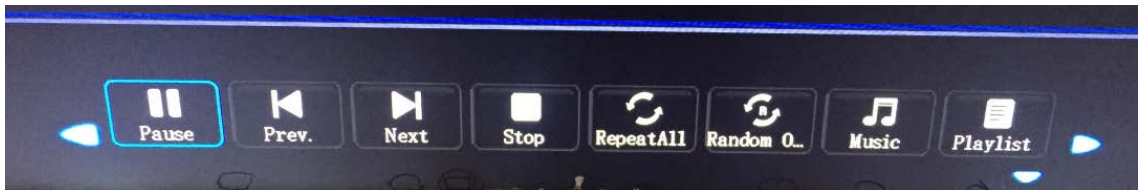
- 2) Select photo, music, movies, and texts by the left and right buttons on the remote control, and then press Enter.

Figure 4-31 Multimedia (2)



- 3) You can also change settings for the pictures, music, movies, and files that are to be played.

Figure 4-32 Multimedia (3)



5 FAQ

Most problems can be solved by the following solutions. If problems that you encountered do not belong to the following descriptions, contact after sales personnel.

Table 5-1 FAQ

Problems	Solutions
When you turn on the Device, there are no images on the screen (blank screen).	<ul style="list-style-type: none">● Check whether the power source (220 VAC) is connected to alternating current.● Check whether the power cable is broken.● Check whether the power switch is on.● Check whether the power switch is broken.● Check whether the indicator light is on.
Blank screen (no signal displayed).	<ul style="list-style-type: none">● Check whether the signal wires are in bad contact.● Check whether there is signal source output.● Check whether the signal wires are broken.● Check whether the input signal type does not belong to the types allowed by the Device.
Color missing.	<ul style="list-style-type: none">● Check whether the signal wires are in bad contact.● Check whether the signal wires are broken.
Remote control cannot control the screen.	<ul style="list-style-type: none">● Check whether buttons on the remote control is broken or stuck.● Check whether batteries of the remote control are installed correctly.
Temperature of the Device is too high.	Check whether the ventilation around the Device is good.

Appendix 1 Cybersecurity Recommendations

Mandatory actions to be taken for basic device network security:

1. Use Strong Passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters.
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols.
- Do not contain the account name or the account name in reverse order.
- Do not use continuous characters, such as 123, abc, etc.
- Do not use overlapped characters, such as 111, aaa, etc.

2. Update Firmware and Client Software in Time

- According to the standard procedure in Tech-industry, we recommend to keep your device (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the device is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

"Nice to have" recommendations to improve your device network security:

1. Physical Protection

We suggest that you perform physical protection to device, especially storage devices. For example, place the device in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable device (such as USB flash disk, serial port), etc.

2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. Set and Update Passwords Reset Information Timely

The device supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. Change Default HTTP and Other Service Ports

We suggest you to change default HTTP and other service ports into any set of numbers between 1024–65535, reducing the risk of outsiders being able to guess which ports you are using.

6. Enable HTTPS

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

7. MAC Address Binding

We recommend you to bind the IP and MAC address of the gateway to the device, thus reducing

the risk of ARP spoofing.

8. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

9. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

10. Audio and Video Encrypted Transmission

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

11. Secure Auditing

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check device log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

12. Network Log

Due to the limited storage capacity of the device, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

13. Construct a Safe Network Environment

In order to better ensure the safety of device and reduce potential cyber risks, we recommend:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.
- The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
- Enable IP/MAC address filtering function to limit the range of hosts allowed to access the device.