



LED Monitor

User Manual



Foreword

General

This manual describes the functions, operations, and precautions of the LED Monitor (hereinafter referred to as the "Devices"). Please read the device carefully before using it, and keep the instruction manual 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
V1.0.0	First release.	Oct. 2024

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, audio, 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.

Operation Requirements



- Make sure that the power supply of the device works properly before use.
- Do not pull out the power cable of the device while it is powered on.
- Only use the device within the rated power range.
- Transport, use and store the device under allowed humidity and temperature conditions.
- Prevent liquids from splashing or dripping on the device. Make sure that there are no objects filled with liquid on top of the device to avoid liquids flowing into it.
- Do not disassemble the device.
- Operating temperature: 0 °C to +40 °C (+32 °F to +104 °F).
- Use the device under allowed humidity and temperature conditions.
-  : Direct current.

Installation Requirements



WARNING

- Connect the device to the adapter before power on.
- Strictly abide by local electrical safety standards, and make sure that the voltage in the area is steady and conforms to the power requirements of the device.
- Do not connect the device to more than one power supply. Otherwise, the device might become damaged.



- Observe all safety procedures and wear required protective equipment provided for your use while working at heights.
- Do not expose the device to direct sunlight or heat sources.
- Do not install the device in humid, dusty or smoky places.
- Install the device in a well-ventilated place, and do not block the ventilator of the device.
- Use the power adapter or case power supply provided by the device manufacturer.
- 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.
- Connect class I electrical appliances to a power socket with protective earthing.



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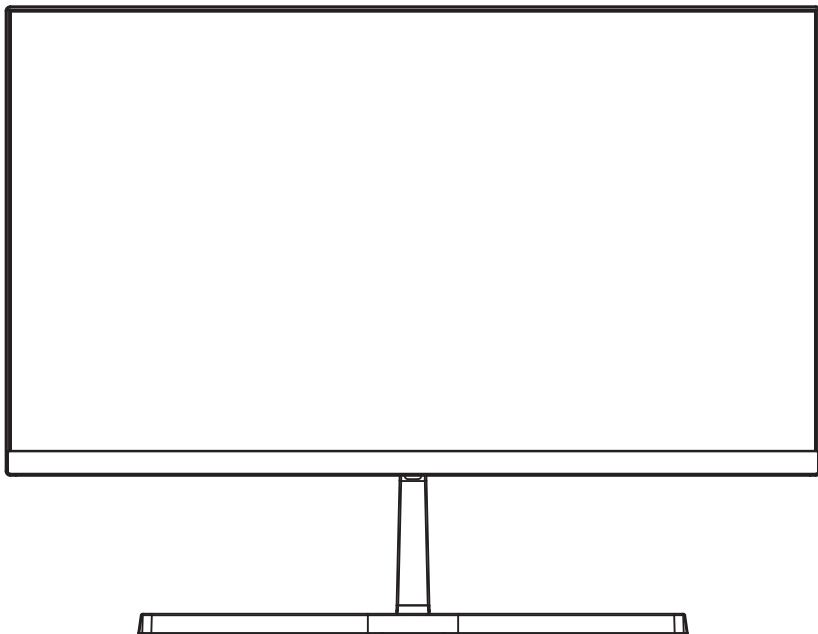
1 Product Information

1.1 Appearance



The figures in the manual are for reference only, and might differ from the actual product.

Figure 1-1 Appearance



(Photos are for reference only)

1.2 Features

- Low energy consumption, long service life.
- High contrast ratio and high luminance.
- Automatically eliminates ghosting.
- Rapid response times, no trailing image.
- Thin and light.
- Full-HD LCD panel with top-ranking video processing chip.

2 Ports

Please connect the monitor to external devices according to the following I/O interface list. Choose the corresponding incoming signal channel.



Please turn off the power of the external device and the product when connecting.

Figure 2-1Ports

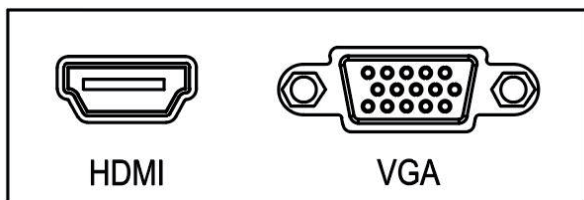


Table 2-1Ports Description

Name	Description
HDMI INPUT	HDMI Connector
VGA INPUT	D-SUB 15 pins Connector

3 Main Menu

To activate, press the menu button on the bottom right of the bezel. The sub-menus of the main menu are: PICTURE MENU, IMAGE MENU, COLOR TEMP MENU, OSD SETTING MENU, RESET MENU and MISC. MENU.

Press the menu button to select the sub-menu item. The selected menu item will show a bordered wire frame.

Press the ▲▼ button to move among the secondary menu items of the sub-menu.

Figure 3-1 5 Key



Table 3-2 Icon description

Icon	Description
	Source button. Press the button to display all the signal channel menus.
	Downward button. - Press the button to move the cursor to the needed function. - Press the button to change the selected function in OSD menu item.
	Upward button. - Press the button to move the cursor to the needed function. - Press the button to change the selected function in OSD menu item.
	Menu button - Press the button to display the OSD main menu. - Press the button to Exit the OSD menu or menu item.
	Power button. Press the button to turn on or turn off the display.

3.1 PICTURE MENU

PICTURE MENU can set BRIGHTNESS, CONTRAST, ECO and DCR function.

Press ▲▼ button to adjust value when item is selected, Press menu button to exit.

Figure 3-3 PICTURE



3.2 IMAGE MENU

IMAGE MENU can set H.POSITION, V.POSITION, CLOCK, PHASE and ASPECT function.

Press ▲▼ button to adjust value when item is selected, Press menu button to exit.

Figure 3-4 IMAGE

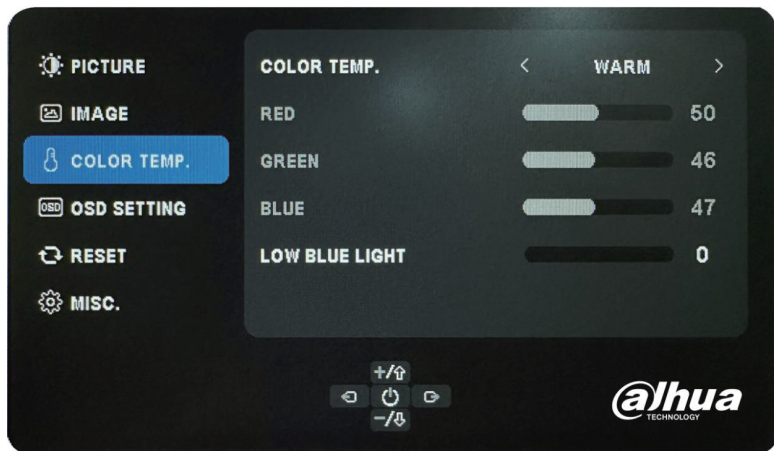


3.3 COLOR TEMP. MENU

COLOR TEMP. MENU can set COLOR TEMP. and LOW BLUE LIGHT function.

Press ▲▼ button to adjust value when item is selected, Press menu button to exit.

Figure 3-5 COLOR TEMP



3.4 OSD SETTING MENU

OSD SETTING MENU can set LANGUAGE, OSD H. POS., OSD V. POS., OSD TIMER and TRANSPARENCY function.

Press ▲▼ button to adjust value when item is selected, Press menu button to exit.

Figure 3-6 OSD SETTING

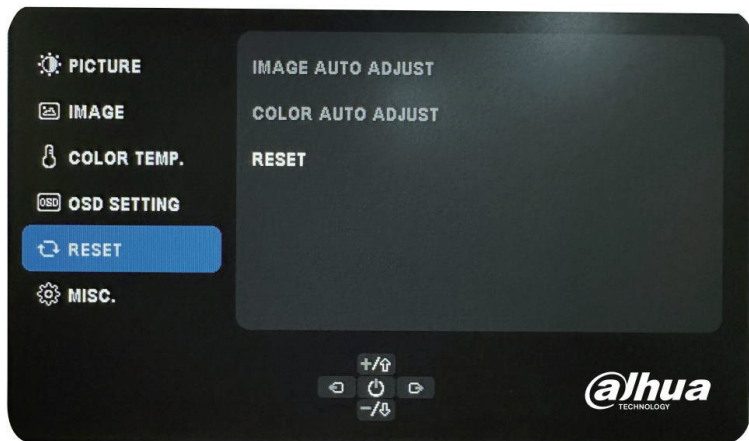


3.5 RESET MENU

RESET MENU can set IMAGE AUTO ADJUST, COLOR AUTO ADJUST and RESET function.

Press▲▼button to adjust value when item is selected, Press menu button to exit.

Figure 3-7 RESET



3.6 MISC. MENU

MISC. MENU can set SIGNAL SOURCE, MUTE, VOLUME, FREESYNC and OD function.

Press▲▼button to adjust value when item is selected, Press menu button to exit.

Figure 3-8 MISC



SN	Resolution	Signal Path
1	640x480@60Hz 60	HDMI
2	720x480@60Hz 60	
3	800x600@60Hz 60	
4	1024x768@60Hz 60	
5	1152x864@60Hz 60	
6	1280x720@50Hz 50	
7	1280x720@60Hz 60	
8	1600x900@60Hz 60	
9	1920x1080@50Hz 50	
10	1920x1080@60Hz 60	
11	1920x1080@75Hz 75	
12	1920x1080@100Hz 100	
13	640x480@60Hz 60	VGA
14	800x600@60Hz 60	
15	1024x768@60Hz 60	
16	1152x864@60Hz 60	
17	1280x1024@60Hz 60	
18	1600x1200@60Hz 60	
19	1920x1080@60Hz 60	
20	1920x1080@75Hz 75	

4 FAQ

4.1 How to Clean Product

1. Please wipe dust and other particles off with a clean soft towel.
2. If it is still not clean, please use a neutral cleaner along with the clean soft towel. Wipe dry after cleaning it.
3. Rubbing or scrapping the housing with fingernails or other hard objects might scratch the housing.

4.2 Troubleshooting

Before consulting service staff, please use the following chart to attempt to diagnose the issue.

Problem	Solution									
	1	2	3	4	5	6	7	8	9	10
No image or sound	●	●	●		●				●	●
Inferior sound, normal image	●	●		●	●				●	
Inferior image, normal sound	●		●	●	●	●			●	
Poor signal	●	●	●		●				●	
Vague image	●		●		●				●	
Double image	●	●	●		●					
Interfering lines in image	●		●	●	●					
Twisty image	●		●		●				●	
Poor signal	●	●	●	●	●				●	
Rung stripe in image			●	●						
Image vertically scrolls	●		●	●					●	
Inferior color	●		●	●	●	●	●	●	●	
No color	●		●		●			●	●	

Solution	
1	Switch to another channel or input.
2	Check whether the audio signal line is connected.
3	Check whether the video signal line is connected.
4	Interference from by other electric appliance may be present.
5	Adjust fine tuning setting.
6	Adjust luminance setting.
7	Adjust contrast ratio setting.
8	Adjust color setting.
9	Check whether the system is set-up properly.
10	Check whether the power is on.

Appendix 1 Security Commitment and Recommendation

Dahua Vision Technology Co., Ltd. (hereinafter referred to as "Dahua") places great emphasis on cybersecurity and privacy protection. We continuously allocate special funds to enhance employees' awareness and capabilities in security, and ensure sufficient security protection for our products. Dahua has established a professional security team to provide comprehensive security empowerment and control throughout the entire product lifecycle, including design, development, testing, production, delivery, and maintenance. Dahua products adhere to the principle of minimum necessary data collection, service minimization, strict prohibition of backdoors, and the disabling of unnecessary and insecure services (such as Telnet). We continuously introduce innovative security technologies to bolster the security capabilities of our products. Additionally, we go above and beyond by providing global users with security alarm and 24/7 security emergency response services. This approach ensures that we are better safeguarding their security rights and interests. At the same time, Dahua encourages users, partners, suppliers, government agencies, industry organizations and independent researchers to report potential risks or vulnerabilities to the Dahua PSIRT. They can do so by visiting the cybersecurity section on the Dahua website.

The security of software platforms not only relies on the continuous attention and efforts from manufacturers throughout R & D, production, and delivery, but also requires active participation from users. Users should remain attentive to the environment and methods to ensure its secure operation. To this end, we suggest users to safely use the software platform, including but not limited to:

1. Account Management

1.1 Use Strong 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.

1.2 Change Password Regularly

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

1.3 Assign Accounts and Permissions Reasonably

According to business and management needs, reasonably add new users, and reasonably allocate a minimum set of permissions for them.

1.4 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.

1.5 Set and Update Passwords Reset Information Timely

The platform supports password reset function. To reduce the risk of being attacked, please set up related information for password reset in time. 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.

1.6 Enable Account Binding IP/MAC

It is recommended to enable the account binding IP/MAC mechanism to further improve access security.

2. Service Configuration

2.1 Enable HTTPS

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

2.2 Disable Unnecessary Services and Choose Secure Modes

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

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

- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.

3. Network Configuration

3.1 Enable Firewall Allowlist

We suggest you to enable allowlist function to prevent everyone, except those with specified IP addresses, from accessing the system. Therefore, please be sure to add your computer's IP address and the accompanying equipment's IP address to the allowlist.

3.2 Network Isolation

The network should be isolated by partitioning the video monitoring network and the office network on the switch and router to different VLANs. This prevents attackers from using the office network to launch Pivoting attacks on the video monitoring network.

4. Security Auditing

4.1 Check Online Users

It is recommended to check online users irregularly to identify whether there are illegal users logging in.

4.2 View the Platform Log

By viewing the log, you can get the IP information of the attempt to log in to the platform and the key operation information of the logged-in user.

5. Physical Protection

We suggest that you perform physical protection to the device that has installed the platform. 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.

6. Perimeter Security

We suggest that you deploy perimeter security products and take necessary measures such as authorized access, access control, and intrusion prevention to protect the software platform security.

ENABLING A SMARTER SOCIETY AND BETTER LIVING

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