



S400N Series LED Monitor

User Manual



Foreword

General

This manual introduces the installation, functions and operations of the LED Monitor (hereinafter referred to as the "Device"). Read carefully before using the device, and keep the manual safe for future reference.

Models

DHI-LM43-S400N/DHI-LM49-S400N/DHI-LM55-S400N/DHI-LM65-S400N/DHI-LM75-S400N/DHI-LM86-S400N/DHI-LM98-S400N

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
V1.0.1	Updated Menu Description.	March 2026
V1.0.0	First release.	January 2026

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 to: 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 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.
- Use the device under allowed humidity (10%–85% (RH)) and temperature (0 °C to 40 °C, or 32 °F to 104 °F) 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.

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.
- Connect class I electrical appliances to a power socket with protective earthing.



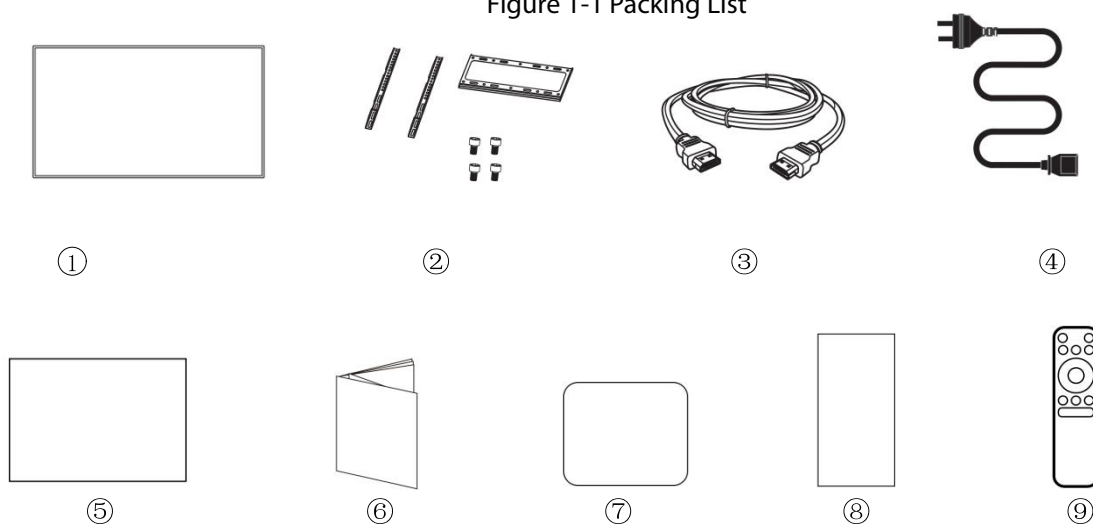
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1 Packing List

Figure 1-1 Packing List



No.	Name
1	LED monitor
2	Wall bracket
3	HDMI cable
4	Power cord
5	QSG installation guide
6	Legal and Regulatory Information
7	Electronic manual QR code
8	Energy efficiency label
9	Remote control

NOTE

The images above are for reference only. Please refer to actual device for detailed information.

1.1 VESA grid plate

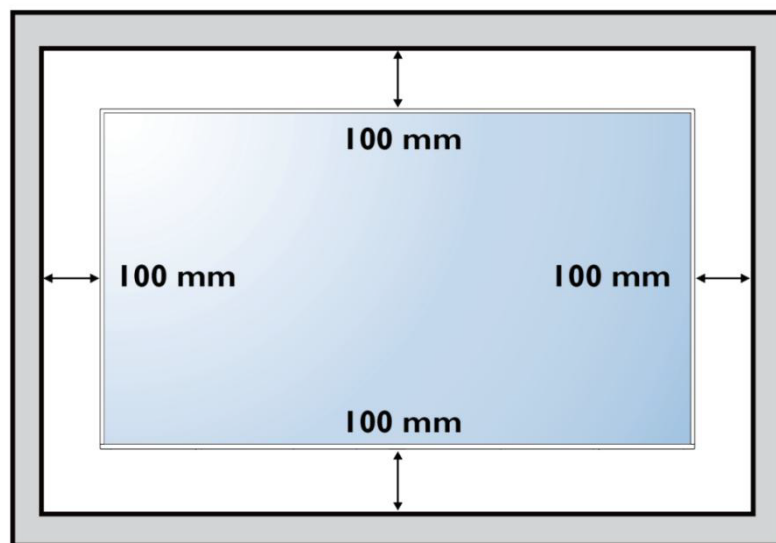
DHI-LM43-S400N	400(H)x400(V)mm
DHI-LM49-S400N	400(H)x400(V)mm
DHI-LM55-S400N	400(H)x400(V)mm
DHI-LM65-S400N	400(H)x400(V)mm
DHI-LM75-S400N	600(H)x400(V)mm
DHI-LM86-S400N	800(H)x400(V)mm
DHI-LM98-S400N	900(H)x600(V)mm

Caution:

Prevent the monitor from falling down:

- In the case of wall installation or suspended installation. Refer to the guide attached to the assembling rack for specific installation instructions.
- In order to lower the probability that the monitor falls down and results in personal injuries and property loss under the condition of earthquake or other natural disasters, please do consult the assembling rack manufacturer to confirm the installation position. Ventilation requirements for enclosed space.
- In order to ensure normal heat dissipation, sufficient space from items to four sides shall be kept, as shown in the figure below.

Figure 1-2 Sufficient space



Do not mount vertically

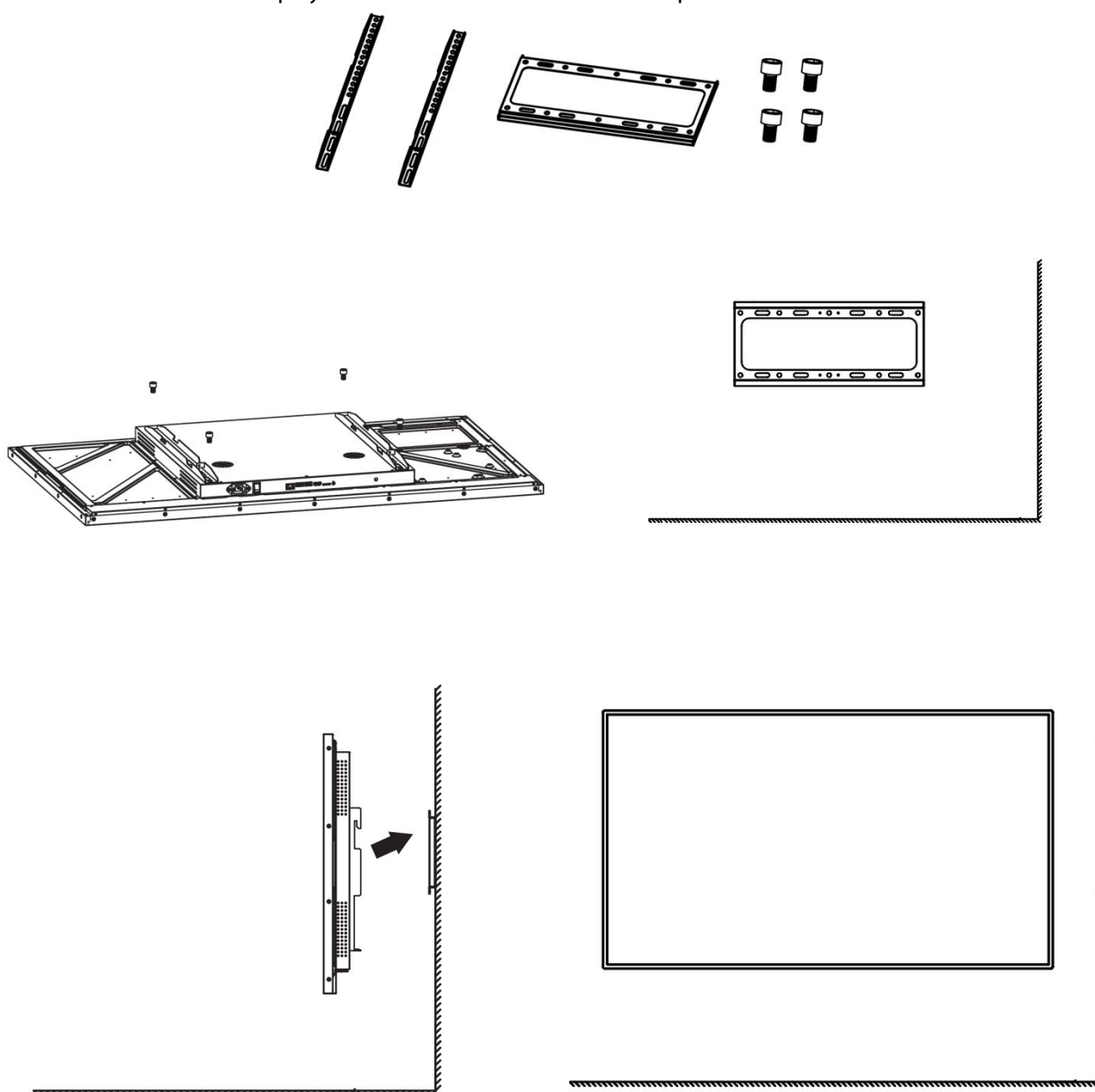


Do not use outdoors

2 Installation guide

2.1 Wall hanging Installation Instructions

1. Install the wall hanging strip on the opposite side of the monitor and fasten it with screws.
2. Install the wall hanging strip on the wall, drive the rubber particles or explosive screws into the drilled holes, and then lock the wall hanging plate with self-tapping screws or screw caps.
3. Install the assembled display on the wall. The installation is complete.

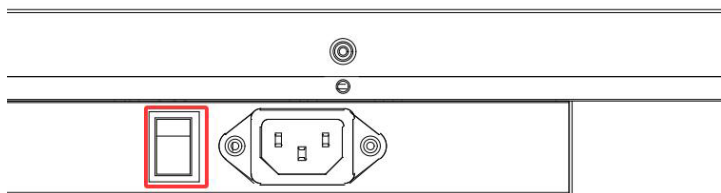


NOTE

The images above are for reference only. Please refer to the actual device for detailed information.

3 Button Description

Figure 3-1 Button description



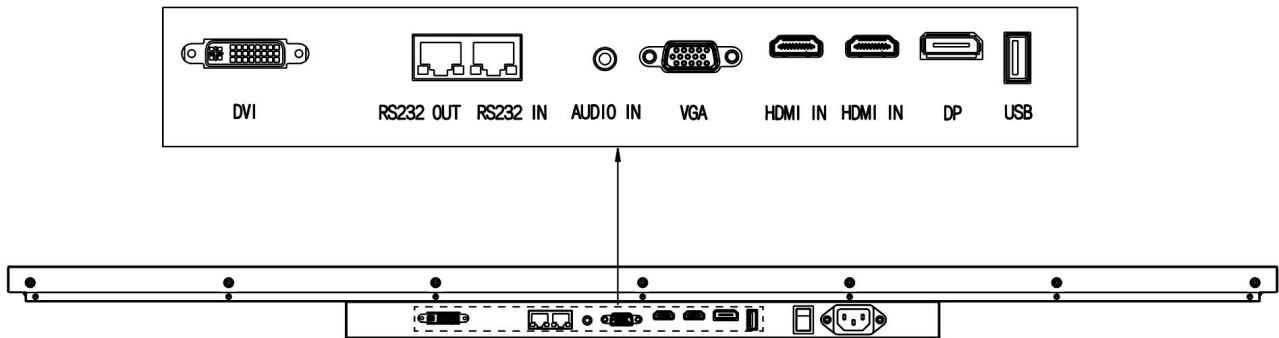
The single button on the display panel only has the function of turning on and off.

Comments:

Different models, different appearance, please subject to the real object.

4 Cable Connection

Figure 4-1 Interface introduction



Interface		Specification
DVI	1 × DVI	Digital video interface
RS232 OUT	1 × RS232 OUT	Provide RS232 external control.
RS232 IN	1 × RS232 IN	Provide RS232 external control.
AUDIO IN	1 × 3.5mm Headphone jack	Used for the audio input signal of plug-in video/audio device
VGA	1 × VGA	D-SUB 15 pins connector
HDMI IN	2 × HDMI IN	Video/audio input
DP	1 × DP	DP signal input interface
USB	1 × USB	USB supports upgrading and data reading.

4.1 USB Support Content

Type	Container	Video Codec	Audio Codec	Resolution/ Sample Rate	Bit Rate
MOVIE	MPG/MPEG	MPEG1/2	MPEG1/2 Layer1	1080P@30fps	40Mbps
		MPEG4	MPEG1/2 Layer2		
		VC1	MPEG1/2 Layer3		
		AVS	AC3/EAC3/AAC-LC/HEAAC	1080P@60fps	50Mbps
		AVS+	DTS/LPCM/DTS XLL		
	TS	MPEG1/2	MPEG1/2 Layer1 MPEG1/2 Layer2 MPEG1/2 Layer3	1080P@30fps	40Mbps
		Sorenson H.263			
		VC1			
		MVC	AC3	4096x2160@60fps 1080P@60fps	80Mbps
		H.264	EAC3		135Mbps
		HEVC/H.265	AAC-LC	4096x2176@60fps	100Mbps
		AVS	HEAAC		
		AVS+	LPCM	1080P@60fps	50Mbps
			DTS XLL		
	MP4/MOV/ 3GP/3GPP	MPEG1/2	MPEG1/2 Layer3	1080P@30fps	40Mbps
		MPEG4			
		H.263	AC3	4096x2160@60fps 1080P@60fps	135Mbps
		H.264	EAC3		
		HEVC/H.265	AAC-LC	4096x2176@60fps	100Mbps
		AVS	HEAAC		
		AVS+	VORBIS	1080P@60fps	50Mbps
		MJPEG	LPCM		
	AVI	MPEG1/2	MPEG1/2 Layer1 MPEG1/2 Layer2 MPEG1/2 Layer3	1080P@30fps	40Mbps
		MPEG4			
		Sorenson H.263			
		H.263	MPEG1/2 Layer3	4096x2160@60fps 1080P@60fps	135Mbps
		WMV3	AC3		
		VC1	AAC-LC	1080P@60fps	50Mbps
		H.264	HEAAC		
		AVS	WMA	1080P@30fps	10Mbps
		AVS+			
		MJPEG			
	MKV	MPEG1/2	MPEG1/2 Layer1	1080P@30fps	40Mbps
		MPEG4	MPEG1/2 Layer2		
		H.263	MPEG1/2 Layer3		
		WMV3	AC3		

		VC1	WMA		
		H.264	DTS	4096x2160@60fps	135Mbps
		HEVC/H.265	LPCM	1080P@60fps	
		VP9	FLAC	4096x2176@60fps	100Mbps
		VP8		1080P@60fps	50Mbps
		MJPEG		1080P@30fps	10Mbps
	ASF	MPEG1/2	MPEG1/2 Layer1 MPEG1/2 Layer2 WMA	1080P@30fps	40Mbps
		MPEG4			
		Sorenson H.263			
		WMV3		4096x2160@60fps 1080P@60fps	135Mbps
		VC1			
		H.264			
	FLV	MJPEG		1080P@30fps	10Mbps
		Sorenson H.263	MPEG1/2 Layer3 AAC-LC HEAAC	1080P@30fps	40Mbps
		H.264		4096x2160@60fps 1080P@60fps	135Mbps
		HEVC/H.265		4096x2176@60fps	100Mbps
	SWF	Sorenson H.263	IMA/MS-ADPCM	1080P@30fps	40Mbps
	WMV	H.264	MPEG1/2 Layer1	4096x2160@60fps	135Mbps
		WMV3	MPEG1/2 Layer2	1080P@30fps	40Mbps
		VC1	WMA		
	RM/RMVB	RV30/RV40	AAC-LC/HEAAC/LBR	1080P@60fps	40Mbps
	DAT/VOB	MPEG1/2	same as MPG	1080P@30fps	40Mbps
MUSIC	MP3	—	MPEG1/2 Layer1	16KHz- 48KHz	32Kbps- 448Kbps
			MPEG1/2 Layer2	16KHz- 48KHz	8Kbps- 384Kbps
			MPEG1/2 Layer3	8KHz- 48KHz	8Kbps- 320Kbps
	AC3	—	AC3	32KHz,44.1KHz,48KHz	32Kbps-640Kbps
	EC3	—	EAC3	32KHz,44.1KHz,48KHz	32Kbps-6Mbps
	AAC	—	AAC-LC HEAAC	8KHz- 48KHz	12kbps- 576kbps
	WMA	—	WMA	8KHz- 48KHz	128bps- 320Kbps
	FLAC	—	FLAC	8KHz- 96KHz	<1.6Mbps

	WAV	—	MPEG1/2 Layer1 MPEG1/2 Layer2 MPEG1/2 Layer3 DTS LPCM IMA/MS-ADPCM G711 A	Refer to the table above.	
	M4A	—	MPEG1/2 Layer3 AC3 EAC3 AAC-LC HEAAC	Refer to the table above.	
PHOTO	JPEG/MPO	Baseline		15360x8640 (1920x8 x 1080x8)	—
		Progressive		1024x768	—
	PNG	non-interlace		9600x6400	—
		interlace		1200x800	—
	BMP	—		9600X6400	—

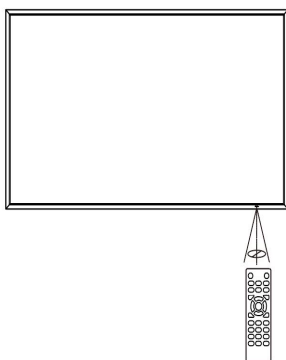
5 Menu Description

Remote controls for different modes may vary, Please refer to the actual object.

Picture	No.	Name	Function
	1	Power	Power on/Standby
	2	ADDR	Select Signal Source
	3	TV1/TV2	N/A
	4	VGA	VGA Signal
	5	HDMI	HDMI Signal
	6	DVI	DVI Signal
	7	►/◄	Function Adjustment/Volume Adjust
	8	Menu	Display Menu
	9	▲/▼	Move Up/Move Down
	10	Enter	Enter key
	11	Return	Return key

Remote control working range

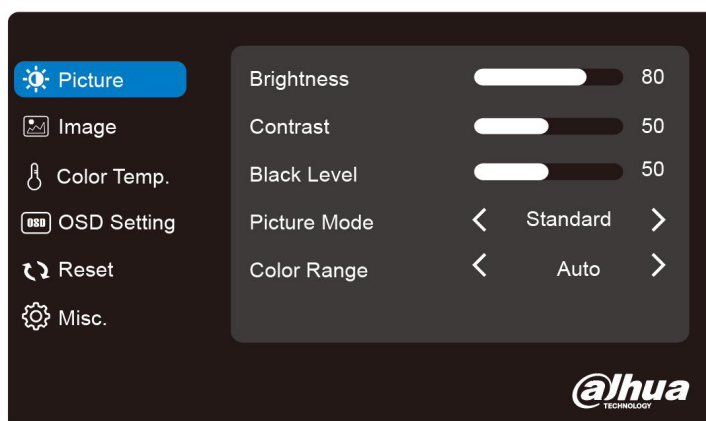
When pressing a button on the remote control, please point the front of the remote control toward the remote sensor (on the front of the device). Use the remote control within the effective range specified in the table below.



Operating Angle	RC Operating Distance
Straight line	5m
Left 30°	5m
Right 30°	5m

Step 1. Press MENU to enter the OSD screen.

Figure 5-2 OSD screen



Step 2. Press ▲ or ▼ to browse through the functions.

Select the desired function, then press the OK button to enter the sub menu.

Step 3. Press EXIT to exit the menu interface.

6. Operation Menu(OSD) Function Descriptions

Functions of the monitor vary with models, and the functions in this manual are for reference only.

Table 6-1 OSD Menu description

Main Menu	Sub Menu	Option
Picture	Brightness	0-100
	Contrast	0-100
	Black Level	0-100
	Picture Mode	Vivid/Standard/Soft/User
	Color Range	Auto/0~255/16~235
Image	Horizontal Pos.	0-100
	Vertical Pos.	0-100
	Clock	0-100
	Phase	0-100
	Aspect Ratio	Auto/16:9/4:3
Color Temp.	Color Temperature	Cool/Medium/Warm/User
	Red	0-100
	Green	0-100
	Blue	0-100
OSD Setting	OSD Language	English/中文/Deutsch/France/Italiano
	OSD Horizontal Pos.	0-100
	OSD Vertical pso.	0-100
	OSD Duration	Off/5Sec/15Sec/30Sec/45Sec/60Sec
	Transparent	Off/Low/Middle/High
Reset	Auto Adjust	—
	Auto Color	—
	Restore Factory Default	—
	Auto Sleep	Off/On
	EDID Switch	EDID 2.0/EDID 1.4
Misc.	Input Source	VGA/HDMI1/HDMI2/DP/DVI/USB
	Mute	Off/On
	Volume	0-100
	Anti Burn	Off/On
	Software Update (USB)	—

6.1 Resolution Support

Port	Resolution	Ver. Frequency(Hz)	Hor. Frequency(KHz)	Pixel Clock(MHz)
HDMI/DP EDID 2.0	640x480	60	31.5	25.175
	720x480	60	31.5	27.027
	720x576	50	31.25	27.031
	800x600	60	37.9	40.00
	1024x768	60	48.4	65.00
	1280x720	50	37.5	74.25
	1280x720	60	45	74.25
	1280x800	60	49.86	83.50
	1280x960	60	60	108.00
	1280x1024	60	64	108.00
	1440x900	60	55.9	106.50
	1600x1200	60	75	162.00
	1680x1050	60	65.3	146.25
	1920x1080	24	27	74.25
	1920x1080	30	33.75	74.25
	1920x1080	50	56.25	148.50
	1920x1080	60	67.5	148.50
	3840x2160	24	54	297.00
	3840x2160	25	56.25	297.00
	3840x2160	30	67.5	297.00
DVI/HDMI/ DP EDID 1.4	640x480	60	31.5	25.175
	720x480	60	31.5	27.027
	720x576	50	31.25	27.031
	800x600	60	37.9	40.00
	1024x768	60	48.4	65.00
	1280x720	50	37.5	74.25
	1280x720	60	45	74.25
	1280x1024	60	64	108.00
	1360x768	60	47.7	85.5
	1440x900	60	55.9	106.50
	1920x1080	24	27	74.25
	1920x1080	30	33.75	74.25
	1920x1080	50	56.25	148.50
	1920x1080	60	67.5	148.50
	3840x2160	24	54	297.00
	3840x2160	25	56.25	297.00
	3840x2160	30	67.5	297.00

VGA	640x480	60	31.5	25.175
	800x600	60	37.9	40.00
	1024x768	60	48.4	65.00
	1152x864	75	67.5	108
	1280x720	60	45	74.25
	1280x800	60	49.86	83.50
	1280x960	60	60	108.00
	1280x1024	60	64	108.00
	1360x768	60	47.7	85.5
	1440x900	60	55.9	106.50
	1600x1200	60	75	162.00
	1680x1050	60	65.3	146.25
	1920x1080	60	67.5	148.50

Appendix 1 Troubleshooting

Appendix Table1-1 FAQ

Faults Occurring	Possible Solutions
The power indicator light is not on	● Check if the power is on. ● Check if the power cord is connected.
Plug and play failed	● Check if the function of plug-and-play of the device is compatible with PC. ● Check if the display card is compatible with the plug and-play function.
Dimming picture	Adjust brightness and contrast.
Flickering picture or picture with ripples	There may be electrical appliances or equipment with electronic disturbance.
The power indicator light is on (flickering), but the monitor has no pictures	● Check if the PC power is on. ● Check if the PC display card is inserted properly. ● Check if the signal cable of the monitor is correctly connected with the PC. ● Check the signal cable plug of the monitor and make sure every pin has no bending. ● Observe the indicator light by pressing the Caps Lock key on the PC keyboard and check if the PC is working.
Color shortage (red, green and blue)	Check the signal cable of the monitor and make sure every pin has no bending.
Picture with color difference (white looks not white)	Adjust RGB color or res elect color temperature.

Appendix 2 Security Commitment and Recommendation

Dahua Vision Technology Co., Ltd. (hereinafter referred to as "Dahua") attaches great importance to cybersecurity and privacy protection, and continues to invest special funds to comprehensively improve the security awareness and capabilities of Dahua employees and provide adequate security for products. Dahua has established a professional security team to provide full life cycle security empowerment and control for product design, development, testing, production, delivery and maintenance. While adhering to the principle of minimizing data collection, minimizing services, prohibiting backdoor implantation, and removing unnecessary and insecure services (such as Telnet), Dahua products continue to introduce innovative security technologies, and strive to improve the product security assurance capabilities, providing global users with security alarm and 24/7 security incident response services to better protect users' security rights and interests. At the same time, Dahua encourages users, partners, suppliers, government agencies, industry organizations and independent researchers to report any potential risks or vulnerabilities discovered on Dahua devices to Dahua PSIRT, for specific reporting methods, please refer to the cyber security section of Dahua's official website.

Product security requires not only the continuous attention and efforts of manufacturers in R&D, production, and delivery, but also the active participation of users that can help improve the environment and methods of product usage, so as to better ensure the security of products after they are put into use. For this reason, we recommend that users safely use the device, including but not limited to:

1.Account Management

1.1 Use complex 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: 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 repeating characters, such as 111, aaa, etc.

1.2 Change passwords periodically

It is recommended to periodically change the device password to reduce the risk of being guessed or cracked.

1.3 Allocate accounts and permissions appropriately

Appropriately add users based on service and management requirements and assign minimum permission sets to users.

1.4 Enable account lockout function

The account lockout function is enabled by default. You are advised to keep it enabled to protect account security. After multiple failed password attempts, the corresponding account and source IP address will be locked.

1.5 Set and update password reset information in a timely manner

Dahua device supports password reset function. To reduce the risk of this function being used by threat actors, if there is any change in the information, please modify it in time. When setting security questions, it is recommended not to use easily guessed answers.

2. Service Configuration

2.1 Enable HTTPS

It is recommended that you enable HTTPS to access Web services through secure channels.

2.2 Encrypted transmission of audio and video

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

2.3 Turn off non-essential services and use safe mode

If not needed, it is recommended to turn off some services such as SSH, SNMP, SMTP, UPnP, AP hotspot etc., to reduce the attack surfaces.

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

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

2.4 Change HTTP and other default service ports

It is recommended that you change the default port of HTTP and other services to any port between 1024 and 65535 to reduce the risk of being guessed by threat actors.

3. Network Configuration

3.1 Enable Allow list

It is recommended that you turn on the allow list function, and only allow IP in the allow list to access the device. Therefore, please be sure to add your computer IP address and supporting device IP address to the allow list.

3.2 MAC address binding

It is recommended that you bind the IP address of the gateway to the MAC address on the device to reduce the risk of ARP spoofing.

3.3 Build a secure network environment

In order to better ensure the security of devices and reduce potential cyber risks, the following are recommended:

Disable the port mapping function of the router to avoid direct access to the intranet devices from external network;

According to the actual network needs, partition the network: if there is no communication demand between the two subnets, it is recommended to use VLAN, gateway and other methods to partition the network to achieve network isolation;

Stablish 802.1x access authentication system to reduce the risk of illegal terminal access to the private network.

4. Security auditing

4.1 Check online users

It is recommended to check online users regularly to identify illegal users.

4.2 Check device log

By viewing logs, you can learn about the IP addresses that attempt to log in to the device and key operations of the logged users.

4.3 Configure network log

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

5. Software Security

5.1 Update firmware in time

According to the industry standard operating specifications, the firmware of devices needs to be updated to the latest version in time in order to ensure that the device has the latest functions and security. If the device is connected to the public network, it is recommended to enable the online upgrade automatic detection function, so as to obtain the firmware update information released by the manufacturer in a timely manner.

5.2 Update client software in time

We recommend you to download and use the latest client software.

6. Physical protection

It is recommended that you carry out physical protection for devices (especially storage devices), such as placing the device in a dedicated machine room and cabinet, and having access control and key management in place to prevent unauthorized personnel from damaging hardware and other peripheral equipment (e.g. USB flash disk, serial port).

ENABLING A SMARTER SOCIETY AND BETTER LIVING

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