

SF-MNT50-4K-V2

USER MANUAL

INTRODUCTION

General

This manual introduces the installation, functions and operations of the SF-MNT50-4K-V2 device (hereinafter referred to as "the Device").

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.	October 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.

Interface Declaration

This manual mainly introduces the relevant functions of the device. The interfaces used in its manufacture, the procedures for returning the device to the factory for inspection and for locating its faults are not described in this manual. Please contact technical support if you need information on these interfaces.

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.

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HIGH-DEFINITION MULTIMEDIA INTERFACE
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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, comply with the guidelines when using it, and keep the manual safe for future reference.

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.

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 - PACKING LIST

Figure 1-1 Packing list

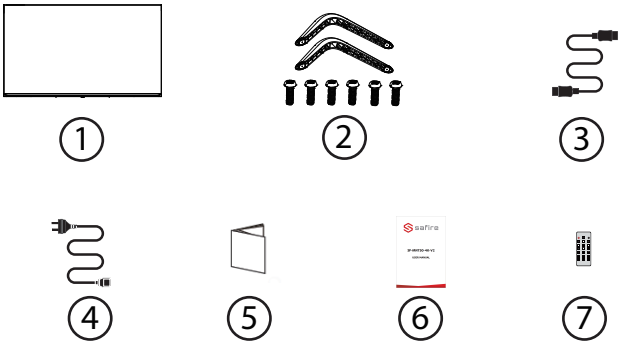


Table 1-1 Packing list

No.	Name
1	Monitor
2	Stand*2 (6 screws)
3	Signal cable
4	AC cable
5	Legal and regulatory information
6	User's manual
7	Remote control(with battery)

Standby Introduction:

When the current port has no signal and there is no remote control or button operation, after 30 seconds, count down another 60 seconds to enter standby mode. If the remote control and button are operated, the standby time will be recalculated. The standby power is ≤ 0.5W.

NOTE

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

2 - INSTALLATION GUIDE

Figure 2-1 Mounting structural accessories

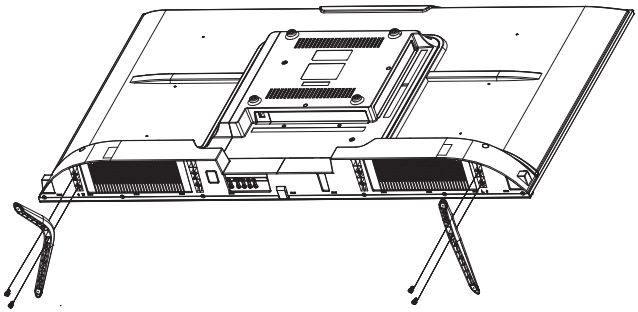


Stand * 2



Screw * 6 (50″)

Figure 2-1 Support installation diagram

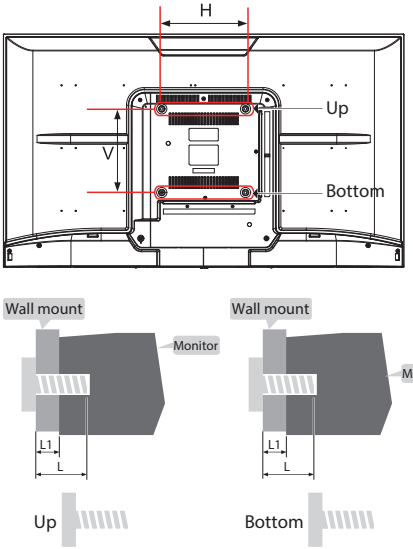


- Align the support with the bottom of the machine and then tighten the screws clockwise.

NOTE

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

Figure 2-2 Use of a monitor wall mounting



L1:Thickness of wall mount

Distance between holes on the wall(H x V)(mm)	Required screws (recommended bolt length)(mm)
200 x 200	6 x M6*10

Note:

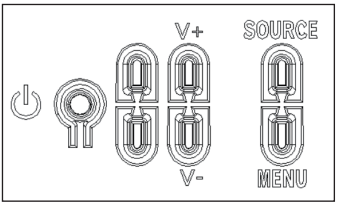
- If any screws are found in the screw hole for wall mount behind the monitor set before installing the wall mount, the screws shall be removed and put in place for later use.
- Please buy the wall screws according to the actual situation.
- If there are flat tail self-tapping screws in the accessories, please decide whether it is suitable for use according to the actual situation of the wall mount.

50"

M6x10mm flat tail self-tapping screws 6 pcs(option)

3 - BUTTON DESCRIPTION

Figure 3-1 Button description



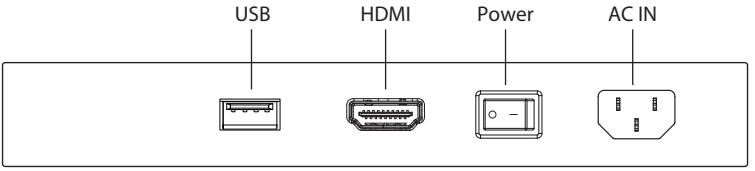
Button	Function
LED Power	LED power indicator and remote receiver window.
⏻	Power on/off and stand by.
MENU	Press “menu" to enter the main menu. In OSD menu, press "menu" to return toprevious menu. Function of button is same with remote control.
SOURCE	Press “source" to enter the signal selection interface.
VOL + / -	Press “VOL-”or“VOL+" to decrease the volume or increase the volume except OSD menu operation. Function of “VOL-/OL+” button is same with remote control.

Comments: Different models, different appearance, pls subject to the real object.

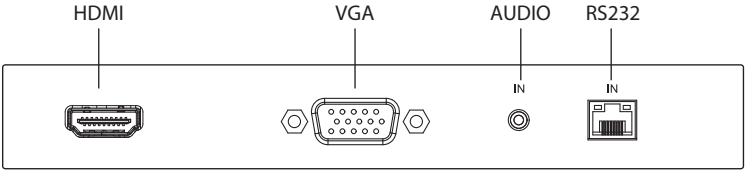
4 - CABLE CONNECTION

Figure 4-1 Interface introduction

Side terminal specification:



Lower terminal specification:



Introduction of some interfaces:

Interface	Description	Purpose of use
AC IN	AC input	AC power input from the wall socket.
HDMI	HDMI signal	Connect to HDMI signal source.
USB port	USB signal	Connect to the USB storage device.
VGA	VGA signal	Connect to VGA signal source.
AUDIO IN	AUDIO IN signal	Audio input for VGA source.
RS232	RS232 signal	Receive command signals from the external RS232 device.

Connecting USB:

Figure 4-2 Use USB device



NOTE

The control button described in this section is mainly on the remote control unless specified otherwise.

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

Play multimedia files from USB device :

Figure 4-3 Connect your USB device to the USB port on the display

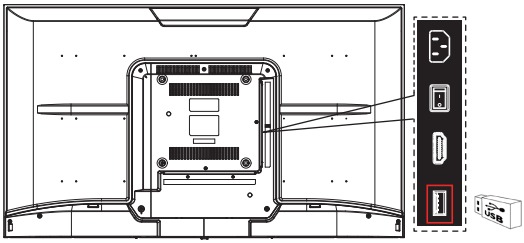


Figure 4-4 Press SOURCE button, choose USB, and press [OK] button

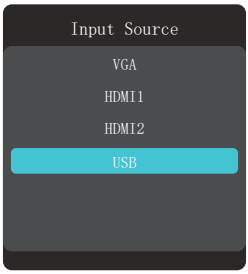
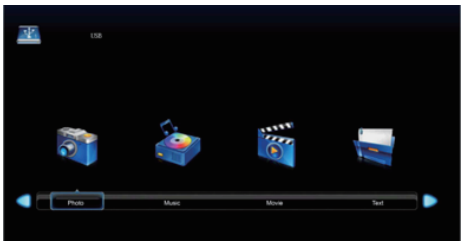


Figure 4-5 Press / to select Photo/Music/Movie/Text icon and to enter the USB memory



Compatibility of the USB device:

Figure 4-6 Format of the USB multi-media coder-decoder

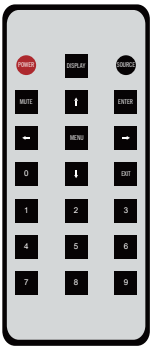
<table>
<tr><td rowspan="10">MOVIE</td><td rowspan="4">AVI</td><td>MJPEG</td><td rowspan="8">MP3, WMA, AAC, MP2, PCM</td><td>The Max Resolution And Frame Rate: 1080p@30fps
Max Data Rate: 10 Mbps</td></tr>
<tr><td>MPEG-4</td><td rowspan="7">The Max Resolution And Frame Rate: 1080p@30fps
Max Data Rate: 20 Mbps</td></tr>
<tr><td>MPEG-2</td></tr>
<tr><td>XVID</td></tr>
<tr><td rowspan="2">MP4</td><td>MPEG-2</td></tr>
<tr><td>MPEG-4</td></tr>
<tr><td>TS/TRP</td><td>MPEG-2</td></tr>
<tr><td rowspan="2">MPG</td><td>MPEG-1</td></tr>
<tr><td>MPEG-2</td></tr>
<tr><td>DAT</td><td>MPEG-1</td><td rowspan="2">MP2</td><td>The Max Resolution: 352x288
Max Data Rate: 20 Mbps</td></tr>
<tr><td>VOB</td><td>MPEG-2</td><td>The Max Resolution: 720x576
Max Data Rate: 20 Mbps</td></tr>
<tr><td>RM/RMVB</td><td>RV8,RV9, RV10</td><td>COOK</td><td>The Max Resolution And Frame Rate: 1080p@30fps
Max Data Rate: 10 Mbps</td></tr>
<tr><td rowspan="4">PHOTO</td><td>JPG</td><td colspan="2">Progressive JPEG</td><td>Max Resolution: 1024x768</td></tr>
<tr><td>JPEG</td><td colspan="2">Baseline JPEG</td><td>Max Resolution: 15360x8640</td></tr>
<tr><td>BMP</td><td colspan="2"></td><td>Max Resolution: 9600x6400
Pixel Depth: 1/4/8/16/24/32 bpp</td></tr>
<tr><td rowspan="2">PNG</td><td colspan="2">Non-Interlaced</td><td>Max Resolution: 9600x6400</td></tr>
<tr><td colspan="2">Interlaced</td><td>Max Resolution: 1200x800</td></tr>
<tr><td rowspan="3">MUSIC</td><td>MP3</td><td></td><td>MP3</td><td rowspan="2">Sample Rate: 32K~48KHz
Bit Rate: 32K-320Kbps
Channel: Mono/Stereo</td></tr>
<tr><td>WMA</td><td></td><td>WMA</td></tr>
<tr><td>MP4A/AAC</td><td></td><td>AAC</td><td>Sample Rate: 8K~48KHz
Bit Rate: 24K~384Kbps
Channel: Mono/Stereo</td></tr>
</table>

5 - MENU DESCRIPTION

Figure 5-1 Remote control

Remote controls for different modes may have difference, pls subject to the real object.

Button	Function
POWER	Power on/off
SOURCE	Select signal source
MUTE	Turn on mute mode
↑	Move up
ENTER	Confirm the operation
←	For decreasing the value on adjustment bar
MENU	Enter OSD menu
→	For increasing the value on adjustment bar
↓	Move down
EXIT	Esc key



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 ENTER button to enter the submenu.
- Press ← or → to browse the sub-menus, and then press ENTER to confirm the selection of the desired function.
- Press ← or → to select an option, then press ENTER to confirm the setting and exit the current 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.

Figure 6-1 Menu description

Menu	Sub Menu	Value Range	
Picture	Brightness	0-100	
	Color	0-100	
	Sharpness	0-100	
	Noise Reduction	Low, Middle, High, Off, On	
	Aspect Ratio	16:9, Zoom1, Zoom2, Just Scan, 4:3	
Image Adjustment	Horizontal-Position(HDMI)	0-50	
	Horizontal Size(HDMI)	0-50	
	Vertical Position(HDMI)	0-50	
	Vertical Size(HDMI)	0-50	
	Horizontal Pos(VGA)	0-50	
	Vertical Pos(VGA)	0-50	
	Size(VGA)	0-100	
	Phase(VGA)	0-100	
	Auto Adjust(VGA)	–	
Color Temperature	Color Temp.	Warm	
		Medium	
		Cool	
		User	Red
			Green
			Blue
OSD Settings	Osd Language	11 languages	
	Animation Time	5S, 15S, 30S, off	
Reset	Restore Factory Default*	–	
Other	Backlight	0-100	
	No Signal Standby	10S, 30S, 60S, Off	
	HDMI EDID Switch	EDID 2.0, EDID 1.4	

*Current Operation Will Increase Energy Consumption.

Enter Cancel

7 - PRODUCT SPECIFICATIONS

Product Model		SF-MNT50-4K-V2
Screen Size		50"
Aspect Ratio		16:9
Viewing Angle		178° (H) / 178° (V)
Contrast ratio		4500:1(Typ.)
Colors		1.07G
Resolution		3840x2160
Maximum refresh rate		60Hz
Product Dimensions	Without base	1111.2*77.4*643.5mm
	With base	1111.2*243.1*706.1mm
speaker		Yes
Height range		N/A
Rotation angle		N/A
Vertical angle		N/A
Tilting angle		N/A
Environmental conditions	Action	Temperature: 0°C–40°C (32°F–140°F) Humidity: 10%–80% RH (non–condensing)
	Storage	Temperature: -10°C–60°C (14°F–140°F) Humidity: 10%–80% RH (non–condensing)

NOTE

The actual application of the above parameters shall be subject to the specific model.

APPENDIX 1 - SECURITY RECOMMENDATIONS

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

Our 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

It is recommended 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).