



# User Manual KOORUI Monitor



#### **Product Specification**

#### **MODEL E2212F**

Basic Parameters		Input		
Screen Form	Flat	VGA	1	
Screen Type	VA	HDMI	HDMI 1.4*1	
Screen Size	21.45inches	DP	None	
Response Time	5ms(OD)	Type-C	None	
Aspect Ratio	16:9	USB	None	
Display Colors	16.7M Colors	Bluetooth	None	
Brightness	250cd/m2	WIFI	None	
Resolution	1920*1080	LAN (Network Interface)	None	
Maximum Refresh Rate	100HZ(max)	Network Interface Controller	None	
Viewing Angle	178°/178°	Outputs		
Static Contrast Ratio	3000:1			
Dynamic Contrast Ratio	20000000:1	Audio OUT	1	
Color Gamut	sRGB 99%	Built-in Speakers	None	
Power & Consumpti	on			
Power Type		Adapter		
Input		12V2A		
Power Consumption		Operating: ≤24W;Standby: ≤0	0.5W	
Accessory List				
Adapter		1 (Cable Length: 1.5m)		
Power Cord		None		
Data Cable		HDMI Cable (Length: 1.5m) x 1		
Stand		Column x 1 + Base x 1		
User Manual		1		
Installation Manual		1		
Structural Support				
VESA (mm)		100×100		
Security Slot		YES		
Physical Dimension	S			
With Stand (mm)		494×388×185		
		494×285×42		
Without Stand (mm)		494×200×42		
Without Stand (mm) Product Packaging (mm)		548×93×351		
Product Packaging (mm)		548×93×351		
Product Packaging (mm)  Base Dimensions (mm)		548×93×351 230×185		
Product Packaging (mm)  Base Dimensions (mm)  Height Adjustment		548×93×351 230×185 Non-adjustable		
Product Packaging (mm)  Base Dimensions (mm)  Height Adjustment  Rotation Adjustment		548×93×351 230×185 Non-adjustable Non-adjustable	0	
Product Packaging (mm)  Base Dimensions (mm)  Height Adjustment  Rotation Adjustment  Horizontal Adjustment		548×93×351 230×185 Non-adjustable Non-adjustable Non-adjustable	0	
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# **Contents**

Ch	apter I Attention	01
1.2 1.3 1.4	Safety Precautions Storage Precautions Securing the Installation Space Protection Recommendations Precautions for Moving the Product	01 02 02
Ch	apter II Preparation Before Use	04
2.2	Schematic Diagram of Product Accessories  Holder Installation  2.2.1 Monitor Holder Installation  2.2.2 VESA Holder Installation  Monitor Holder Removal	04 04 05
	<ul><li>2.3.1 VESA Holder Disassembly Drawing</li><li>2.3.2 Holder Disassembly Diagram</li></ul>	
<ul><li>2.5</li><li>2.6</li></ul>	Interface and Data Cable Connection Instructions	09 10
Ch	apter III OSD Function	12
Ch	apter IV Common Applications	16
4.2	Resolution and Refresh Rate Setting	16
Ch	apter V Q&A ······	17



# **Chapter I Attention**

#### 1.1 Safety Precautions

Warning A serious or fatal injury may result if instructions are not followed.

Caution Personal injury or damage to properties may result if instructions are not followed.

Risk of electric shock. don't open			
(OR BACK)	E THE RISK OF ELECTRIC SHO THERE ARE NO USER SERVIC CING TO PROFESSIONAL.	,	
	This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.		AC voltage: Rated voltage marked with this symbol is AC voltage.
	This symbol indicates that this product has included important literature concerning operation and maintenance.		DC voltage: Rated voltage marked with this symbol is DC voltage.
	Class II product: This symbol indicates that a safety connection to electrical earth (ground) is not required. If this symbol is not present on a product with a mains lead, the product MUST have a reliable connection to protective earth (ground).		Caution. Consult instructions for use: This symbol instructs the user to consult the user manual for further safety related information.

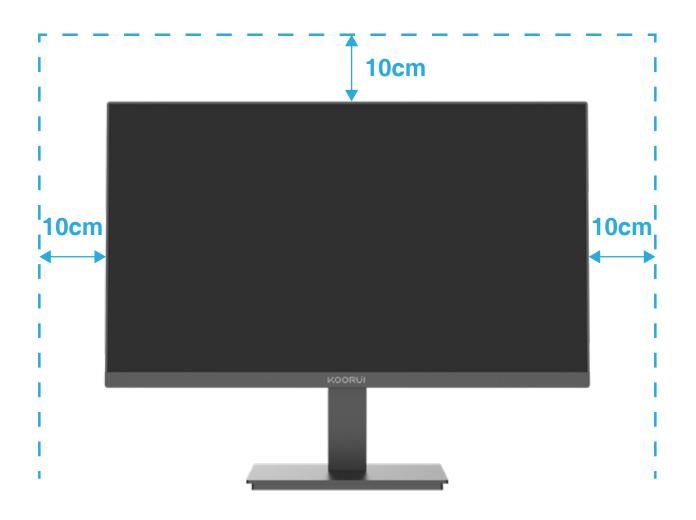
### 1.2 Storage Precautions

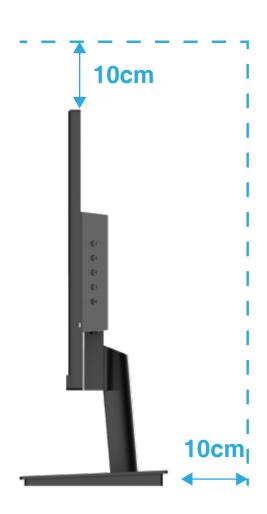
- Keep away from water sources or damp places, such as bathrooms, kitchens, basements, swimming pools, etc.
- Ensure that the equipment is installed and placed smoothly. If it falls, it may cause human injury or equipment damage.
- Store in a cool, dry and ventilated place, and do not approach radiation sources and heat sources.
- Do not cover or plug the ventilation holes in the back shell, and do not use them on beds, sofas, blankets or similar surfaces.

- The power supply voltage range of equipment operation is indicated on the label of the back shell. If the supplied voltage cannot be determined, consult the local power company.
- When the monitor is not used for a long time, please cut off the power supply to prevent the damage of the motor and abnormal power supply voltage in thunderstorm days.
- Do not overload the socket, which may cause fire and electric shock.
- Please do not put foreign bodies into the machine, which may cause short circuit or cause fire and electric shock.
- Please do not disassemble or repair this product by yourself. If there is any fault, please contact the after-sales service personnel directly.
- Please do not pull or twist the power cord excessively.

#### 1.3 Securing the Installation Space

Make sure to have enough space for ventilation when placing the product. An internal temperature rise may cause fire and damage the product. Maintain enough space around the product as shown in the diagram when installing the product.





#### 1.4 Protection Recommendations:

#### **Suggestions for eyes**

In order to avoid eye fatigue and pain in neck, arms, back and shoulders caused by long-term use of the monitor, please pay attention to the following points:

- Place the monitor 20-28 inches away from both eyes (about 50-70cm).
- Use the monitor to keep the eyes moist or increase the blinking frequency.
- After using the monitor for 2 hours, please rest for 20 minutes.

- When resting, leave your eyes away from the monitor and look at the distance for 20 seconds.
- When resting, stretch or relieve your neck, arms, back and shoulders.

#### Low blue light description

The blue light wavelength is in the blue light band, and the display has the function of reducing blue light emission. Can select "eye protection mode" in the menu to protect your eyes.

#### **Cleaning your monitor**

To clean your screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the anti static coating. Do not use benzene, thinner, ammonia, abrasive cleaners or compressed air.

# 1.5 Precautions for Moving the Product

- Do not directly apply pressure on the screen.
- Do not hold the screen when moving the product.
- Hold the lower corners or edges of the product when moving it.

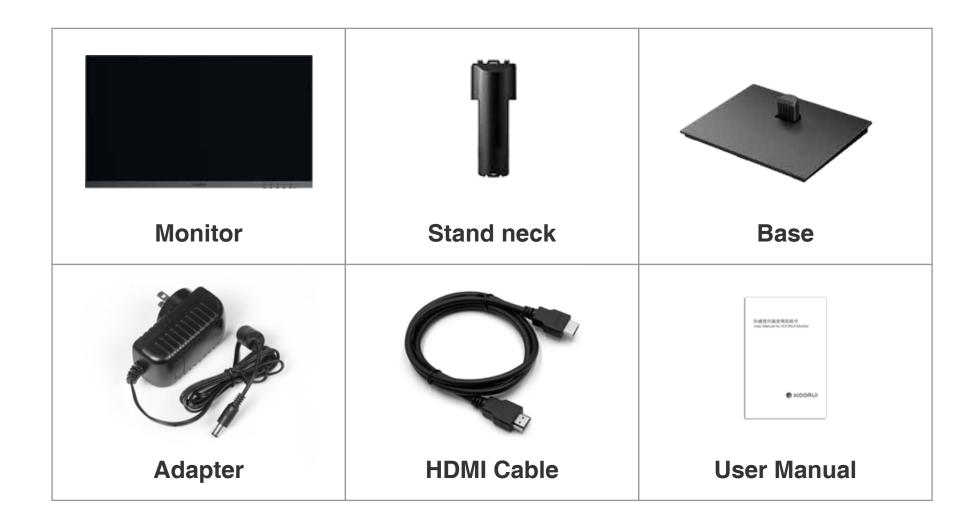




# **Chapter II Preparation Before Use**

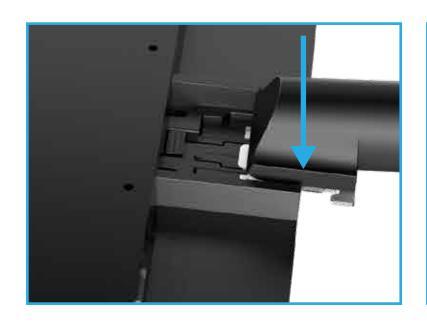
#### **2.1** Accessories:

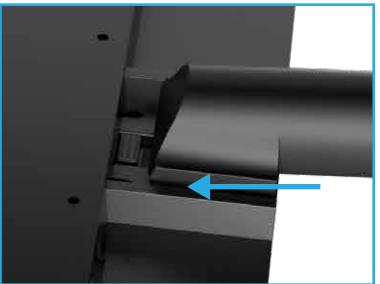
Your monitor is equipped with the following components. Please check whether all parts have been received. If there are any omissions, please contact Koorui.

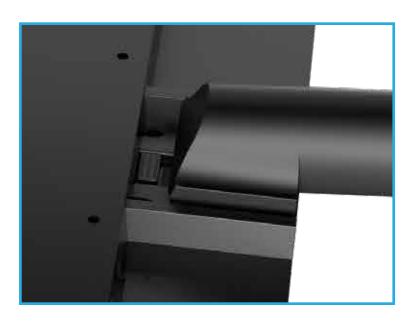


#### 2.2 Holder Installation:

#### 2.2.1 Monitor Holder Installation



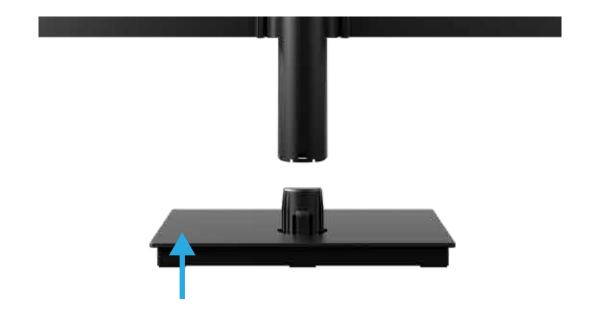




Align the monitor stand with the monitor mounting holes and pre-press it to the hooks.

Align the monitor stand with the track and push it into place, and make sure that there is a "click" sound to indicate successful.

No obvious shaking was found when shaking the bracket after installation.





Align the base with the connection hole of the monitor stand.

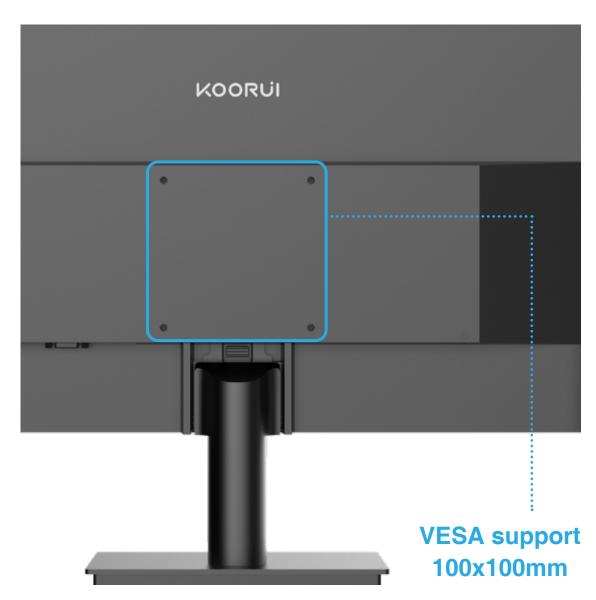
Push the base flat until there is a "click" sound, and the base is installed.

After the base is installed, it can be pulled out lightly, but cannot be pulled out, and placed on the desktop.

#### 2.2.2 VESA Holder Installation & Attention

- VESA device can be purchased separately.
- Refer to the user guide provided with your VESA device for details.





• Install your wall mount on a solid wall perpendicular to the floor. Before attaching the wall mount to surfaces other than plaster board, please contact your nearest dealer for additional information. If you install the product on a slanted wall, it may fall and result in severe personal injury.

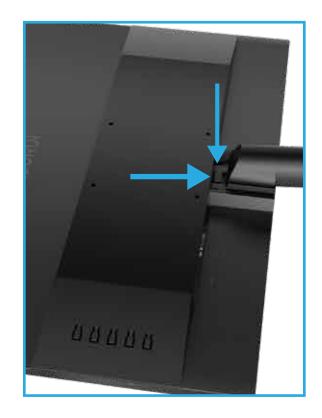
- Do not mount the product at more than a 15 degree tilt.
- Assemble VESA holder (using retaining screws removed from rear shell).
- Wall mounting screws require M4 screws, the length should not exceed 7mm.

#### 2.3 Holder removal

#### 2.3.1 VESA Holder removal



#### 2.3.2 Monitor Holder removal





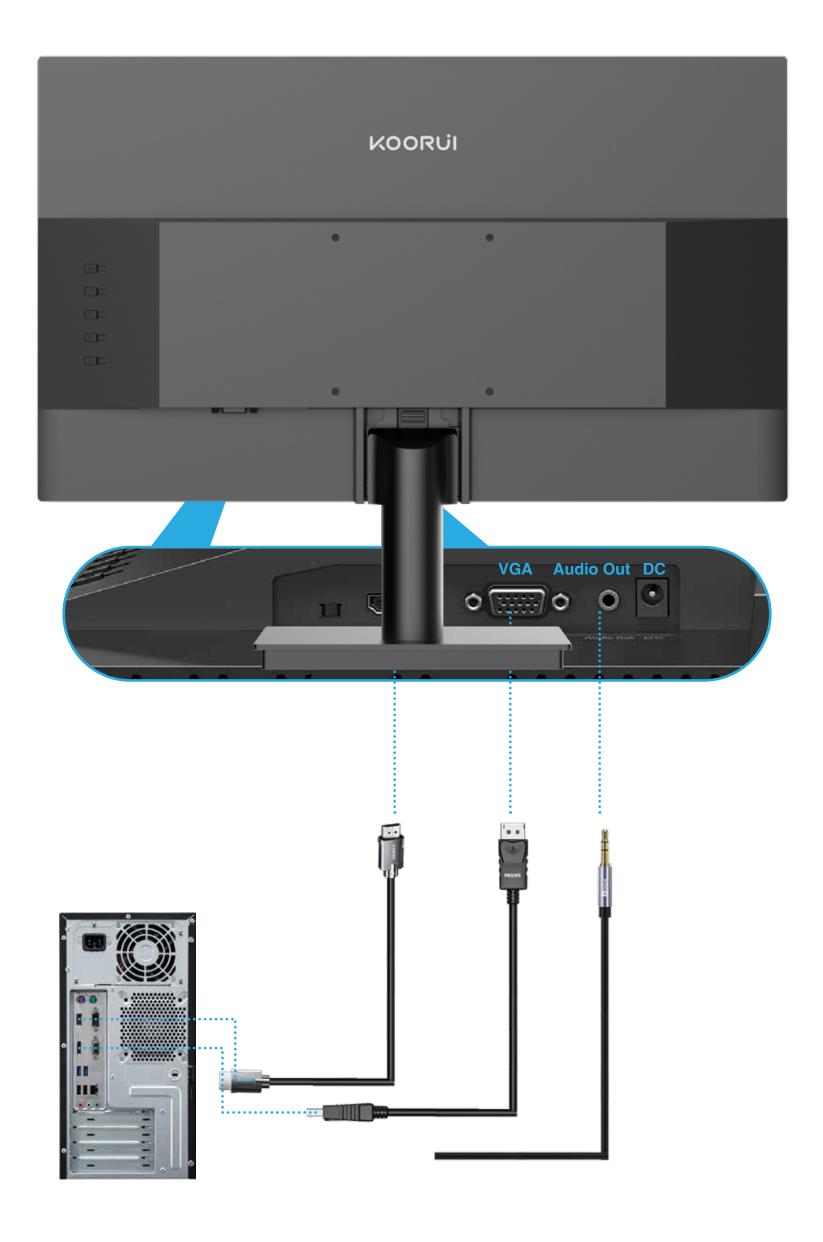
Press and hold the
PUSH button, then
keep this state, and exit
the monitor stand
in two directions.





Pre-press the hook, and press the PUSH at the same time, Successfully remove the base and monitor stand.

# 2.4 Interface and Data Cable Connection Instructions



Port	Port Description
	Connects to a PC using a VGA cable.
	Connects to a PC using a HDMI cable.
0	Connects to the DC cable.

#### **Connecting and using a PC**

- Choose the connection method that suits your PC.
- Connecting parts may vary from product to product.

#### **Connecting and using source devices**

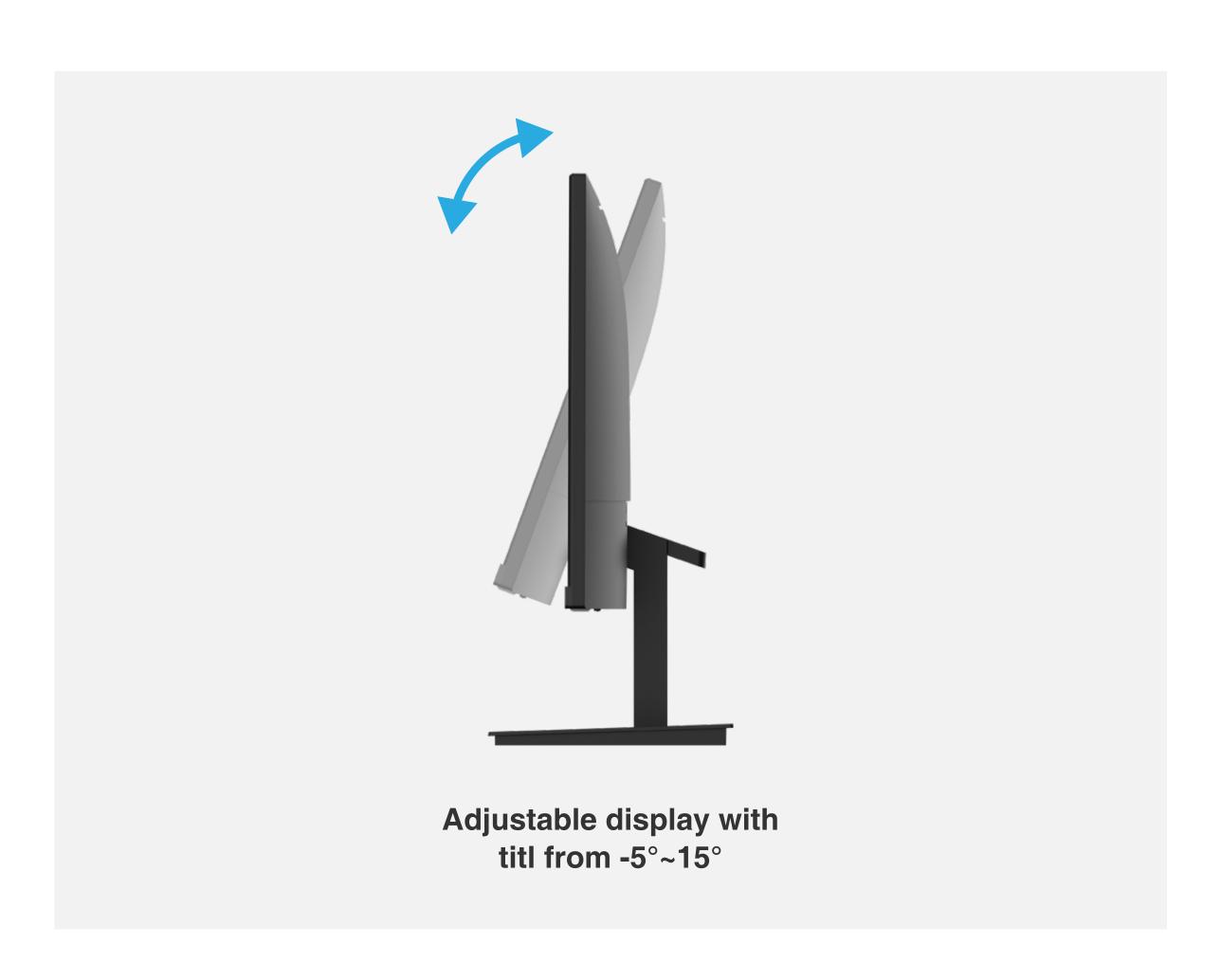
#### Read below before installing the product.

- Before installing the product, check the shapes of both ports of the supplied signal cables and the shapes and locations of the ports on the product and external device.
- Before connecting signal cable, make sure you remove the power cables from both the product and the external device to prevent damage to the product due to a short circuit or over current.
- After all signal cables have been properly connected, connect the power cables back to the product and the external device.
- After installation is completed, make sure you read the user guide to acquaint yourself with the product functions, precautions and other information required to use the product properly.

Please read the user guide provided by the source device for the operation mode of the source device. The original device signal is abnormal. It is recommended to contact the source device manufacturer first.

If you need assistance, please contact Koorui after-sales staff.

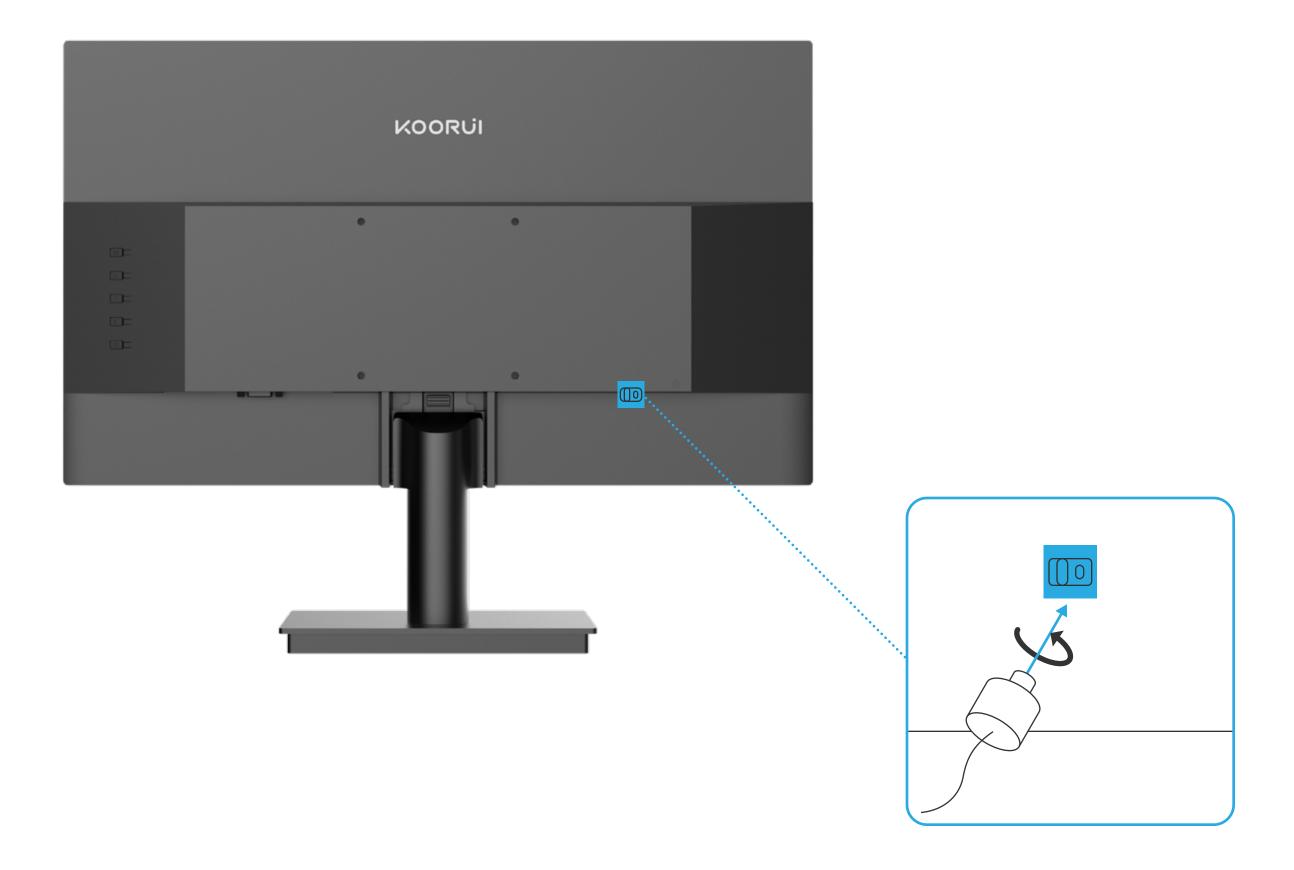
#### 2.5 Adjusting the Product Tilt



#### 2.6 Anti-theft Lock

- An anti-theft lock allows you to use the product securely even in public places.
- The locking device shape and locking method depend on the manufacturer.

#### To lock an anti-theft locking device:



- An anti-theft locking device can be purchased separately.
- Refer to the user guide provided with your anti-theft locking device for details.

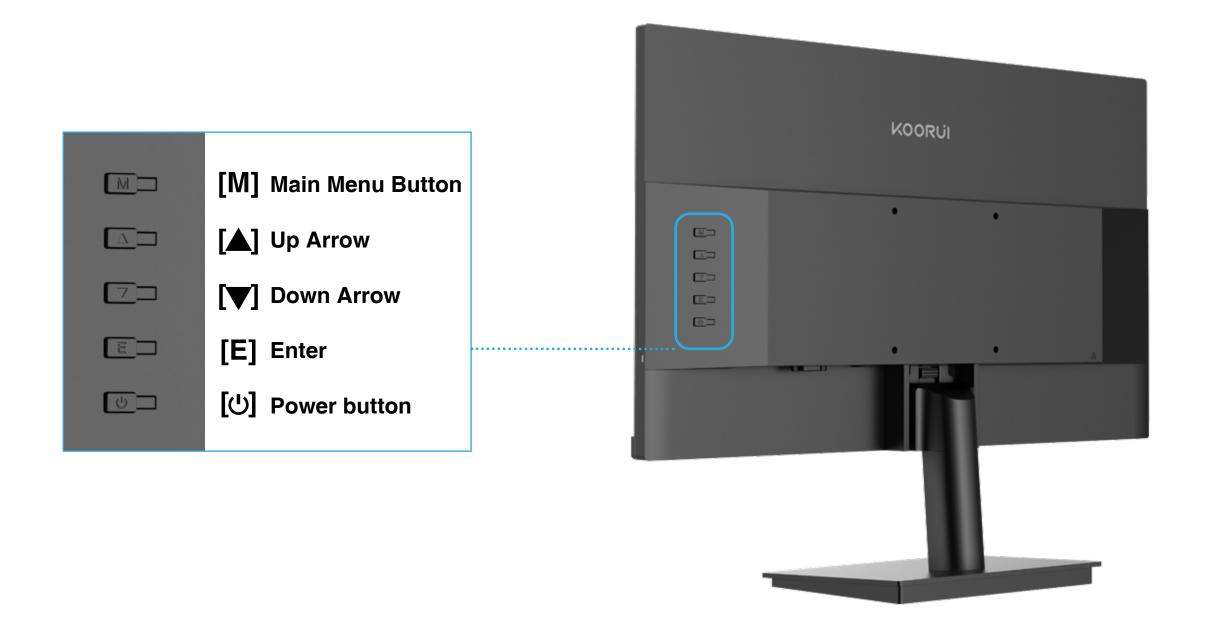
# 2.7 Preset display modes

NO.	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1	720x400@70Hz	31.469	70.087
2	640x480@60Hz	31.469	59.94
3	640x480@72Hz	37.861	72.809
4	640x480@75Hz	37.5	75
5	800x600@56Hz	35.156	56.25
6	800x600@60Hz	37.879	60.317
7	800x600@72Hz	48.077	72.188
8	800x600@75Hz	46.875	75
9	832x624@75Hz	48.387	74.787
10	1024x768@60Hz	48.363	60.004
11	1024x768@70Hz	56.476	70.069
12	1024x768@75Hz	60.023	75.029
13	1280x1024@75Hz	79.976	75.025
14	1152x870@75Hz	67.645	74.994
15	1680x1050@60Hz	64.674	59.883
16	1440x900@60Hz	55.935	59.887
17	1280x1024@60Hz	63.981	60.02
18	1280x720@60Hz	45	60
19	1280x800@60Hz	49.702	59.81
20	1280x720@50Hz	36.806	49.96
21	720x480@60Hz	29.83	59.779
22	1280x1080@60Hz	67.5	60



# Chapter **M** OSD Function

The OSD function information table of this product is as follows. If there is any question about the operation process, please contact Koorui customer services.



M	Main Menu Button	Returns to the function operation when the menu turned on.		
	Up Arrow	Activates shortcut mode for navigating upwards.		
	Down Arrow	Activates shortcut mode for navigating downwards.		
E	Enter	Enter		
U	Power button	Turn on/off the monitor		
<b>A</b> + <b>V</b>	Up+Down	Enters factory mode when pressed during power-on. Note: All short-cut functions are exclusive to this product.		
	Note: Shortcut function	ns are only accessible when the OSD is disabled.		

	Brightness	0-100	Adjust the display brightness
	Contrast Ratio	0-100	Adjust the display contrast
	Auto DCR Adjustment	OFF/ON	Turn automatic dynamic contrast ratio adjustment on or off
Display	Return	/	Navigate to the previous menu level
	Exit	/	Exit the menu
+	Adaptive Sync	OFF/ON	Toggle Adaptive Sync functionality
<b>4</b>	Return	/	Navigate to the previous menu level
Game mode	Exit	/	Exit the menu
	Standard	/	Set standard mode
	Cinema	/	Set Cinema mode
	FPS	/	Set FPS mode
	RTS	/	Set RTS mode
Preset Mode	Eye Care	/	et Eye Care mode
	Return	/	Navigate to the previous menu level
	Exit	/	Exit the menu
	Cool	/	Set to a cool color temperature (9300K)
	Standard	/	Set to a standard color temperature (6500K)
	Warm	/	Set to a warm color temperature (6500K)
8	User	R/G/B	Customize color temperature with R/G/B settings (default: 50/50/50, 6500K)
Color temperature	sRGB	/	Set sRGB mode
	Return	/	Navigate to the previous menu level
	Exit	/	Exit the menu

Language	Language	中文/English/Français/ Deutsch/Italiano/ Português/Español/ 한국인/日本語/Magyar/ Polski/Svenska/ Русский/Türkçe/ 繁体中文/TiengViet	Set the OSD language
	Auto	/	Automatically adjust the aspect ratio
	16:9	/	Set to 16:9 aspect ratio
L++	4:3	/	Set to 4:3 aspect ratio
Aspect Ratio	Return	/	Navigate to the previous menu level
	Exit	/	Exit the menu
	VGA	/	Select VGA input source
	HDMI	/	Select HDMI input source
Input Source	Return	/	Navigate to the previous menu level
	Exit	/	Exit the menu
	Power-Off	OFF/ON	Enable or disable the 1-minute power-saving mode, during which the monitor will be off.
	Gamma Selection	Gamma1/Gamma2	Adjusts color tone and brightness levels.
(•••)	Volume	/	Adjust the output volume for Audio OUT.
Other	Adjustment	Automatically adjust color, clock, or phase	Automatically adjust image, color, clock, or phase (applicable to VGA input only)
	Return	/	Navigate to the previous menu level
	Exit	/	Exit the menu
	YES	/	Reset OSD menu settings, but OSD language settings will not be reset.
ξO}	NO	/	Do not reset OSD menu settings.
Reset	Return	/	Navigate to the previous menu level
	Exit	/	Exit the menu

# **Chapter IV Common Applications**

#### 4.1 Resolution and Refresh Rate Setting

#### 4.1.1 Resolution settings

Windows: Windows Settings > System > Screen > Display Resolution
MAC: MAC System Preferences > Monitor > Optimization > Scaling

#### 4.1.2 Refresh rate setting

Windows: Windows Settings > System > Screen > Advanced Display Settings > Refresh Rate

MAC: MAC System Preferences > Monitor > Refresh Rate

#### 4.2 Monitor Extension Application

Screen expansion function setting.

Windows: Windows Settings > System > Screen > Multiple Display Settings

> select "Extend This Monitor"

MAC: MAC System Preferences > Monitor > Arrangement > Mirror Display

#### 4.3 Display Sound Settings

HDMI, DP sound effect selection;

Windows: Windows Settings > System > Sound > Output > select"Output Settings"

MAC: MAC System Preferences > Sound > Output

### 4.4 Display Orientation Settings

Windows:Windows Settings > System > Screen > Display Orientation MAC:MAC System Preferences > Monitor > Optimization > Rotate



# Chapter V Q&A

- The following table lists some common monitor problems that you may encounter and their solutions.
- If you can't solve your difficulties, please contact Koorui customer services.
- Official website: http://www.koorui.net/
- E-mail: support@koorui.net

All four sides of the screen appear blank when using an HDMI cable or DP cable to connect the product and PC.	The blank that appears on the screen has nothing to do with our product. The blank on the screen is caused by a PC or graphics card. Please adjust the screen size in your graphics card's HDMI or DVI settings to resolve this issue.  If the graphics card settings menu does not have the option to resize the screen, please update the graphics card driver program to the latest version. (Contact your graphics card or PC manufacturer for more details on adjusting your screen.)
The power LED goes out. The screen won't turn on.	Check if the power cord is connected correctly. If there is a problem with the monitor screen, run a self-diagnostic to check that the monitor is working properly.
Display "Over Frequency"	This message appears when the signal from the graphics card exceeds the maximum resolution or frequency of the product.  Change the maximum resolution and frequency to suit product performance.
The image on the screen looks distorted.	Check the cable connection with the product.
The image is not clear.	Remove all accessories (video extension cord, etc.) and try again. Set the resolution and frequency to the recommended level.
The screen is unstable and shaky. There is a shadow or ghosting on the screen.	Check if the resolution and frequency of the PC are within the range of the resolution and frequency that compatible with the product. Next, change the settings if needed.
The screen is too bright, while the image is too dark.	Adjust the brightness and the contrast.
The screen colors do not match. Colors on the screen are shaded and distorted. The white color doesn't look really white.	Change the color settings.



There is no image on the screen, and the power LED flashes every 0.5 to 1 second.	The product runs under the power-saving mode; Press any key on the keyboard or move the mouse to get back to the normal operating mode; Use the Caps Lock on your PC keyboard to see if your computer is operating or rebooting your device.
The video played intermittently.	The play of large high-definition video files can be spotty. This may be because the video player is not optimized for PC resources.  Try playing the file on another video player.
The monitor is no sound.	You will not hear the sound if you connect an input device with an HDMI-DVI cable. Please use an HDMI cable or a DP cable to connect the device.  Re-check the condition of the connected audio cable and/or adjust the volume.  Check the volume.  Check if the audio is set to silent.  Monitor sound output is not set, refer to 4.3
Volume is too low.	Adjust the volume.  If the volume is still low after turning it all the way up, please adjust the volume of the PC sound or the software program.
Video is available, but no sound.	If you connect the input device with an HDMI-DVI cable, then there will be no sound to be heard.  Please connect the device with an HDMI cable or DP cable.  Monitor sound output is not set, please refer to 4.3.
"XXS Power. An energy efficiency prompt appears on the monitor or there shows "XXS Power" on the top left corner.	It's because the product you buy and sell is a European product, which should comply with the European energy efficiency requirements.
Monitor quickly goes dark (no display).	In the power setting state, the monitor shuts down for a short time; Windows Settings > System > Power and Sleep > Screen > Please reset the time.
There is a shadow or ghosting on the screen.	Open OD acceleration.  Do not place static pictures for a long time, it is recommended to use the background picture to select dynamic pictures.
Can't adjust the brightness and the contrast.	1. Check if the HDR/eye protection/DCR automatic/cinema/FPS/RTS mode is turned on. In this mode, the brightness/contrast will automatically adjust and cannot be adjusted manually. It is recommended to turn this mode off and switch to the standard mode by default;  2. The monitor can be restored to factory settings through the OSD button; Tap Key M to wake up the menu > Reset > YES.
The resolution is only 1920*1080, and the refresh rate is only 60HZ.	<ol> <li>In the safe mode of the host, the resolution cannot be adjusted, please return to safe mode;</li> <li>HDMI 1.4 only supports 1K 144HZ, 2K 60HZ; it is recommended to replace HDMI 2.0 interface or DP interface;</li> </ol>