



User Manual

KOORUI Monitor

Display	
Screen Form	FLAT, IPS
Screen Size	23.8 Inches
Response Time(G/G)	1ms(OD)
Display Color	16.7M Colors
Image Ratio	16: 9
Perspective(typ.)	250cd/m²
Resolution	1920*1080
Pixel Distance	0.2745 mm x 0.2745 mm
Maximum Refresh Rate	HDMI:144Hz DP:165Hz (MAX)
Viewing Angle （Horizontal/Vertical）	178°/178°
Static Contrast	1000:1
Dynamic Contrast	20000000:1
Color Gamut	72% (NTSC1976)
Features	
Output Model Type	Digital Signal
Language	English, Chinese, German,Japanese, Italian, French (optional)
Eye Saver Mode	YES
Monitor Bracket	Detachable
Wall-Mount （Size）	75mm×75mm(M4 x 7mm screws not included)
Free Sync	YES
Timer	YES
Output:Audio / Headphone （3.5mm）	1
Physical Properties	
Power Type	AC power cord
Input Current	AC 100-240V,50/60HZ
Power consumption	Boot≤30W, Sleep≤0.5W
Product 3D Display	
With Bracket	541.9×427.8×229.2mm, 21.3×16.8×9.0 inch
Without Bracket	541.9×322.3×60.4 mm, 21.3×12.7×2.4 inch
Product Packaging	612×151×409 mm, 24.1×5.9×16.5 inch
Weight	
Product Weight (with bracket)	3.06KG, 6.75lbs
Package Weight	4.49KG, 9.9lbs
Inputs	
DP 1.2	1
HDMI 1.4	2
Environment	
Working Temperature	0-40℃
Storage Temperature	-20~60℃
Working Humidity	10%~80%
Storage Humidity	5%~95%
Altitude	Below 5000m

Table of contents

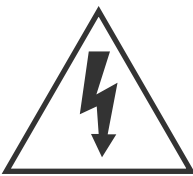
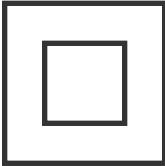
Chapter I Attention	01
1.1 Safety Precautions	01
1.2 Storage Precautions	01
1.3 Product Placement Space	02
1.4 Protection Recommendations	02
1.5 Product Pick-and-Place	03
Chapter II Preparation Before Use	04
2.1 Product Accessories	04
2.2 Bracket Installation	04
2.2.1 Self-contained Base Installation	04
2.2.2 VESA Bracket Installation	05
2.3 Monitor Disassembly	06
2.3.1 VESA Bracket Removal Diagram	06
2.3.2 Disassembly Diagram of the Base	07
2.4 Interface Description	08
2.5 Adjust Product Inclination	09
2.6 Anti-theft Lock	10
Chapter III OSD Function	11
Chapter IV Common Applications	16
4.1 Resolution and Refresh Rate Setting	16
4.1.1 Resolution setting	16
4.1.2 Refresh rate setting	16
4.2 Monitor Extension Application	16
4.3 Display Sound Settings	16
4.4 Display Orientation Settings	17
Chapter V Q&A	17

Chapter I Attention

1.1 Safety Precautions

WARNING: 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. Do not open.			
(CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE BACK COVER (OR BACK CASE). There are no user-operable parts inside. If there needs cleaning and maintenance, please leave it to professional maintenance personnel. This symbol indicates that high voltage is present inside. Do not make any kind of contact with any internal parts of this product.)			
	This symbol indicates that there has high pressure inside the product. Please do not have any form of contact with internal components 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).		Reference: This symbol indicates that users need to consult further user manuals for more safety-related information.

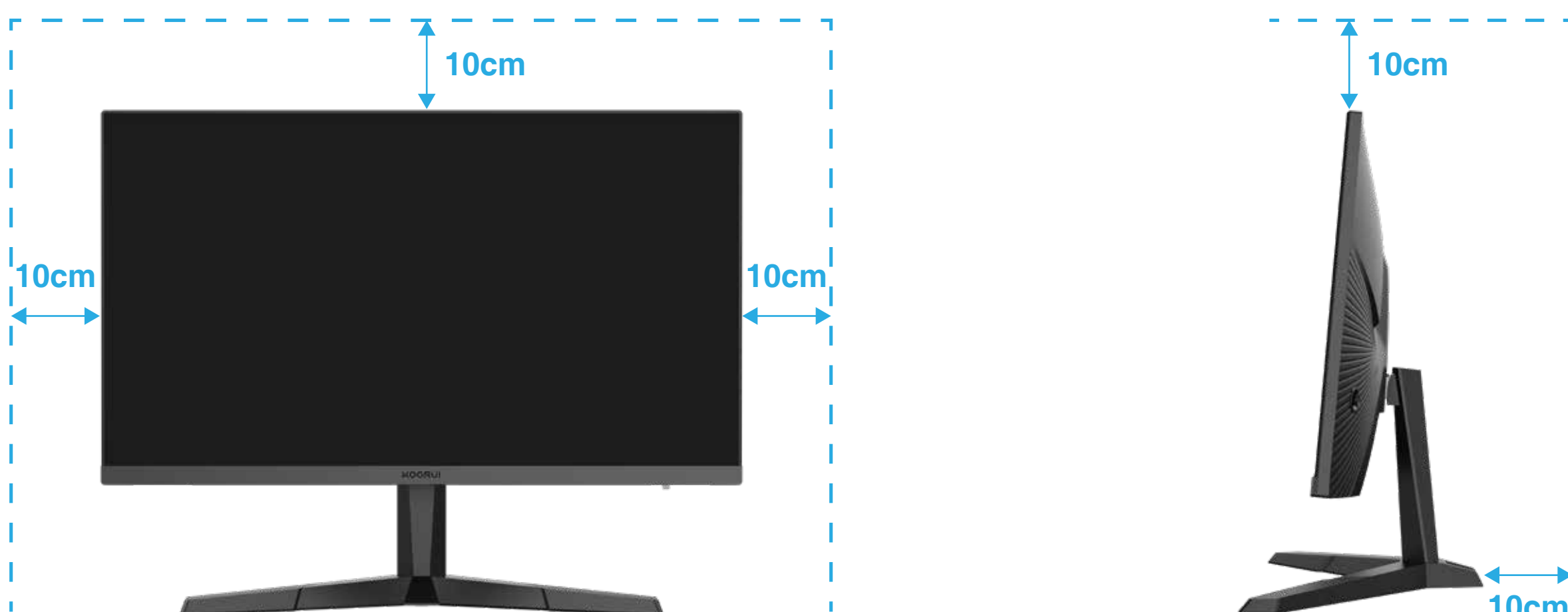
1.2 Storage Precautions

- Do not store the product near water sources or damp places, such as bathrooms, kitchens, basements, swimming pools, etc.
- Make sure that the device is installed in a stable place. If it falls, it may cause personal injury or equipment damage;
- Store in a cool, dry and ventilated place. Keep away from radiation and heat sources;
- Do not cover or block the ventilation holes on the rear case, and do not place it on a bed, sofa, blanket, or similar surface;

- The power supply voltage range of the device operation is indicated on the label on the rear case. If you are not sure about the supplied voltage, you can consult the local power company;
- When the device is not in use for a long time, please cut off the power supply to prevent the product from being damaged by lightning strikes or abnormal power voltage in thunderstorms;
- Do not overload the socket, which may cause fire and electric shock;
- Do not put foreign objects into the machine, which may cause a short circuit or cause fire or electric shock;
- Do not disassemble or repair this product by yourself. If there is a fault, please contact the after-sales service personnel;
- Do not excessively pull or twist the power cord;

1.3 Product Placement Space

Make sure to leave enough space for ventilation around the product. When installing the product, make sure to leave at least the area around the product, as shown below.



1.4 Protection Recommendations

Eye health advice:

To avoid eye strain, neck, arm, back, and shoulder pain from prolonged use of a monitor, please pay attention to the following:

- Keep a distance of 20-28 inches (about 50-70cm) between the eyes and the screen;
- Adjust the angle of the product so that there is no reflection on the screen;
- Please take a 20-minute break after using the monitor for 2 hours.

- When taking a break, take your eyes off the monitor and focus on the distance for 20 seconds.
- When taking a break, stretch or soothe the neck, arms, back, and shoulders;

Low blue light instructions

The blue light wavelength is in the blue light band, and the monitor has the function of reducing the intensity of blue light;

"Eye Protection Mode" can be selected from the menu to protect your eyes.

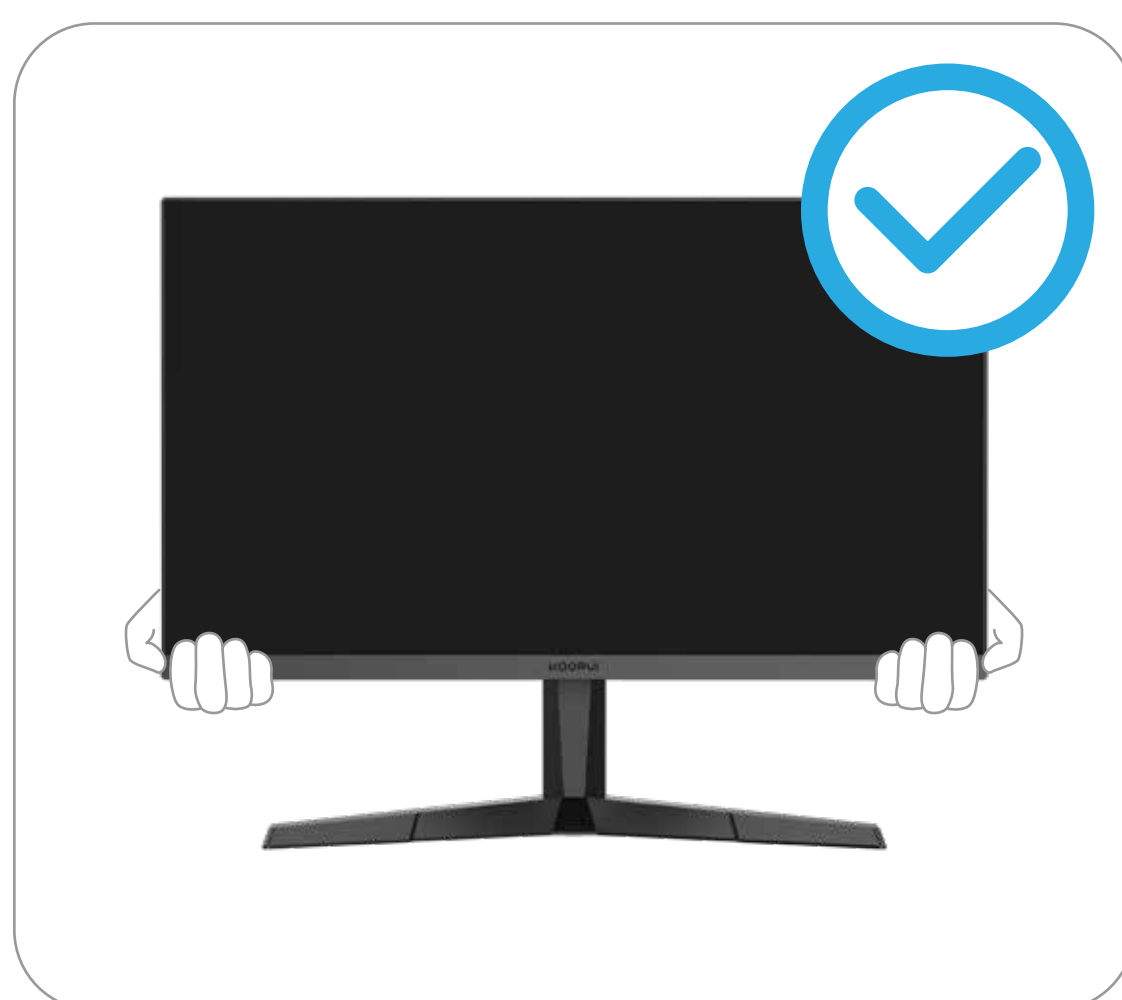
Cleaning your monitor

To clean the screen, lightly dampen a soft, clean cloth with water. If possible, use a special screen-cleaning wipe or detergents suitable for antistatic coatings.

Please do not use benzene, thinner, ammonia containing large amounts of alcohol or strong chemical ingredients that may cause discoloration or cracking of the exterior of the product or peel off the surface of the panel.

1.5 Product Pick-and-Place

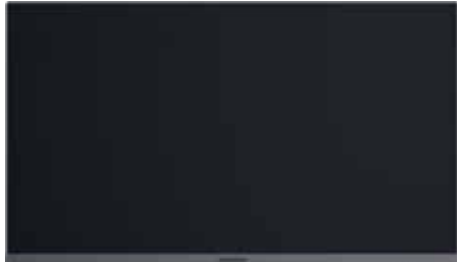
- Don't put pressure directly on the screen.
- Do not hold the screen while moving the product.
- Hold the bottom corner or edge of the product frame to move it.



Chapter II Preparation Before Use

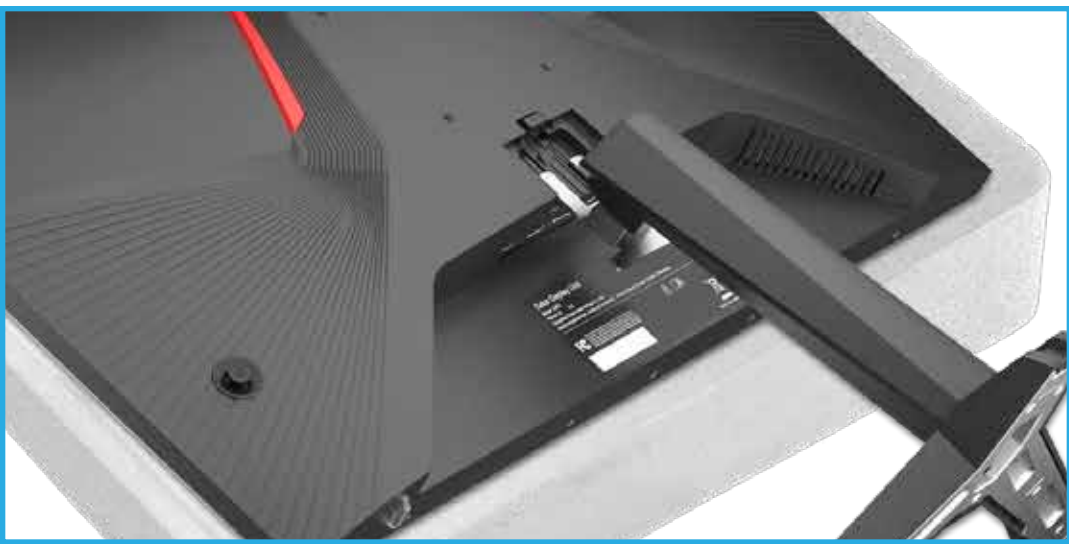
2.1 Product Accessories

Your monitor comes with the following parts. Please check that all parts have been received and contact Koorui if any are missing.

			
Outer box	Monitor	Bottom Base	
			
Column	Adapter	DisplayPort Cable	User Manual

2.2 Bracket Installation

2.2.1 Self-contained Base Installation



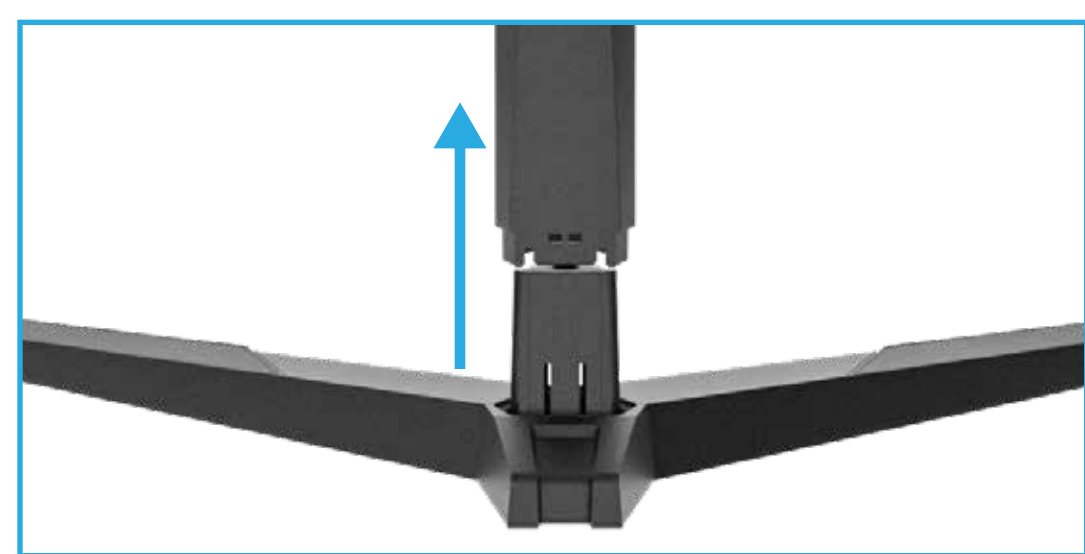
Put a soft cloth on the table to protect the product (or use the foam vinyl that comes with the product packaging), and place the product face down on the soft cloth.



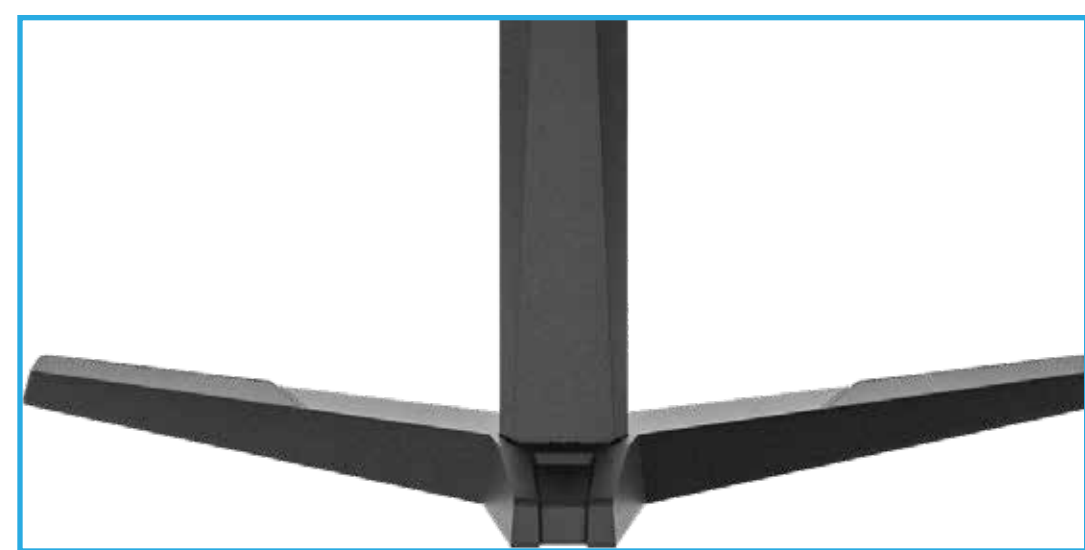
Push the column into the main body of the monitor in the direction indicated by the arrow;



Check whether the bracket and the main body are firmly connected;



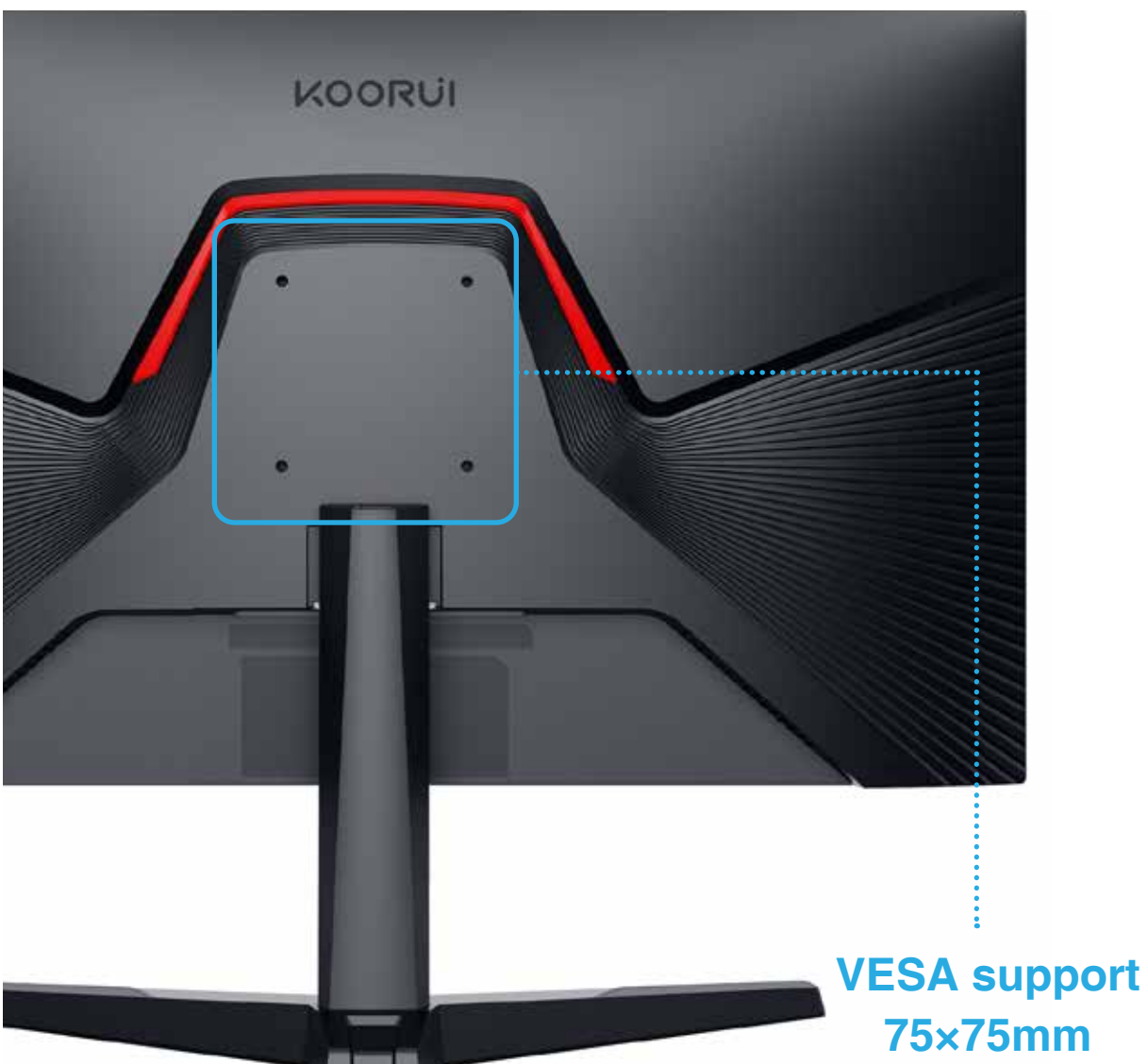
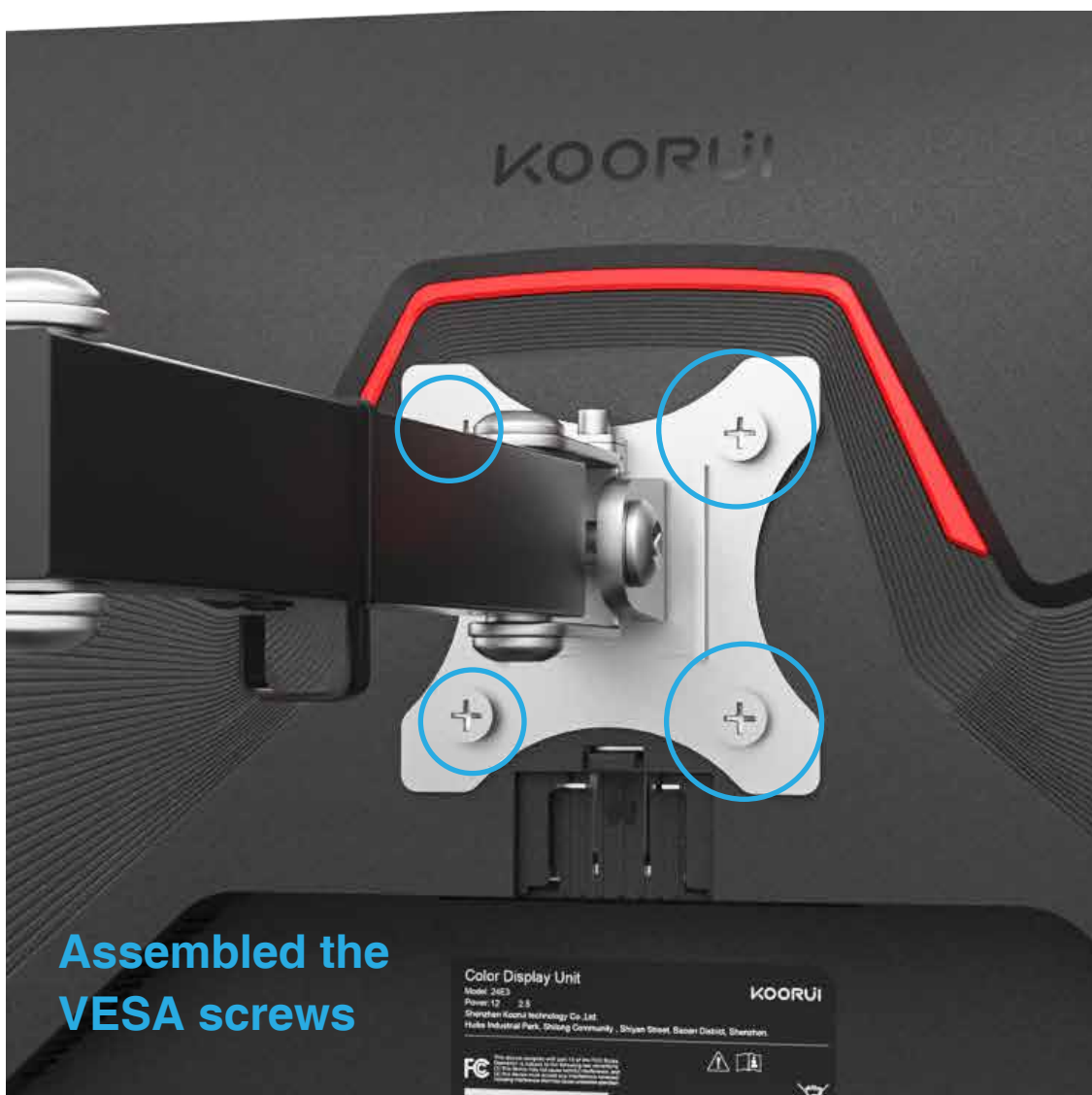
Insert the base into the column according to the direction shown in the figure;



Check whether the base and the column are firmly connected, and place the installed product on a stable platform according to figure 1.5 - monitor pick-and-place method.

2.2.2 VESA Bracket Installation

- WARNING: Wall mounting screws require M4 screws , the length should not exceed 8mm , avoid damage to the product due to excessive length.

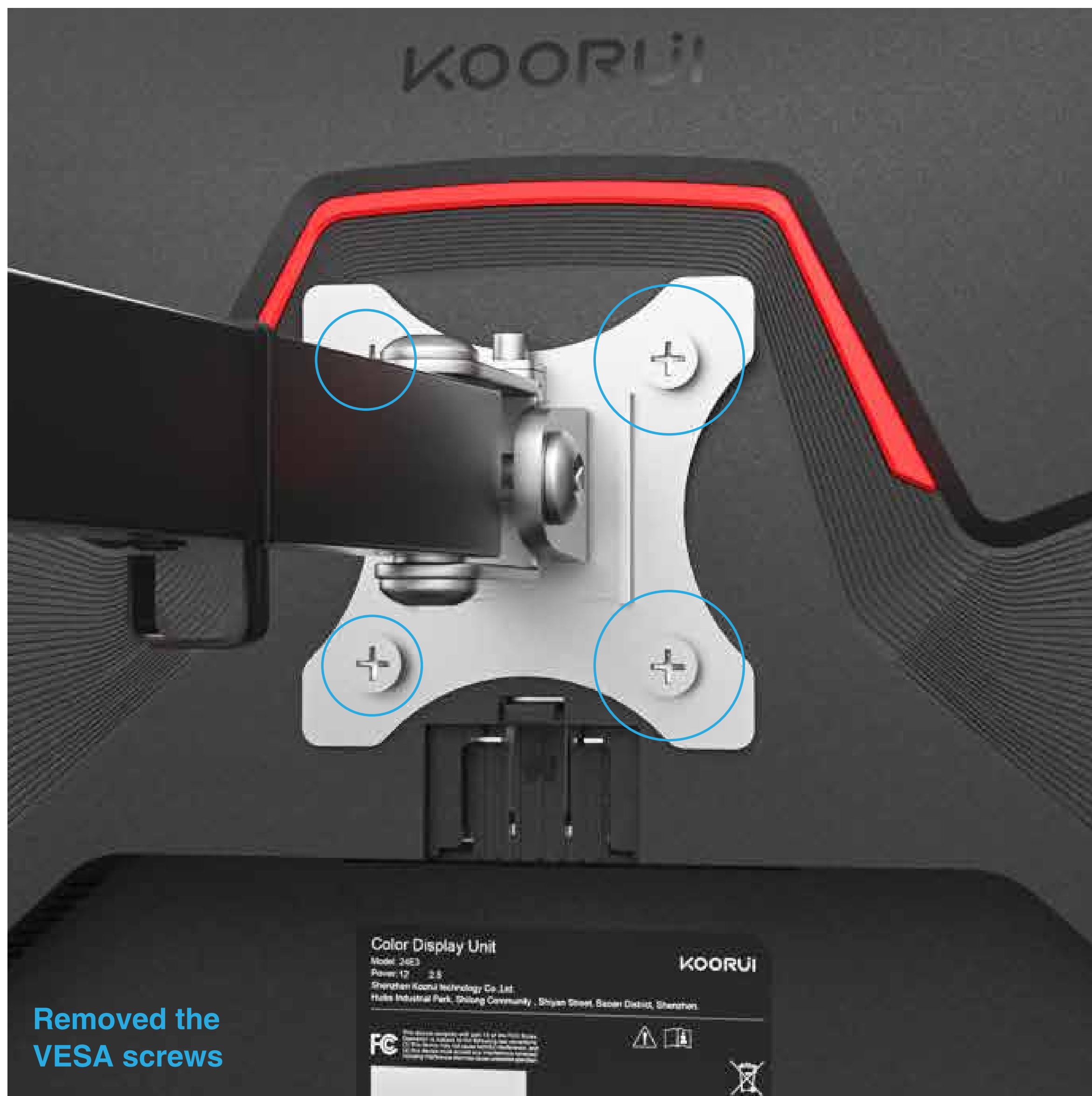


Wall Mount Notes

- Please purchase the VESA bracket device separately.
- For more information, please refer to the user guide provided with your VESA bracket device.

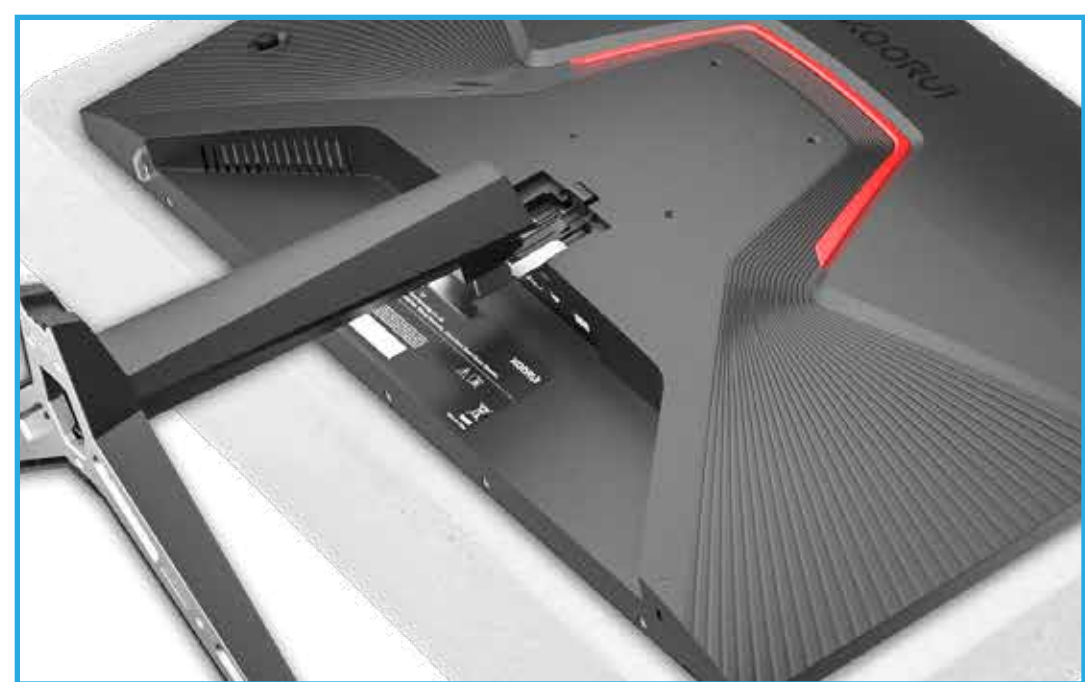
2.3 Monitor Disassembly

2.3.1 VESA Bracket Removal Diagram

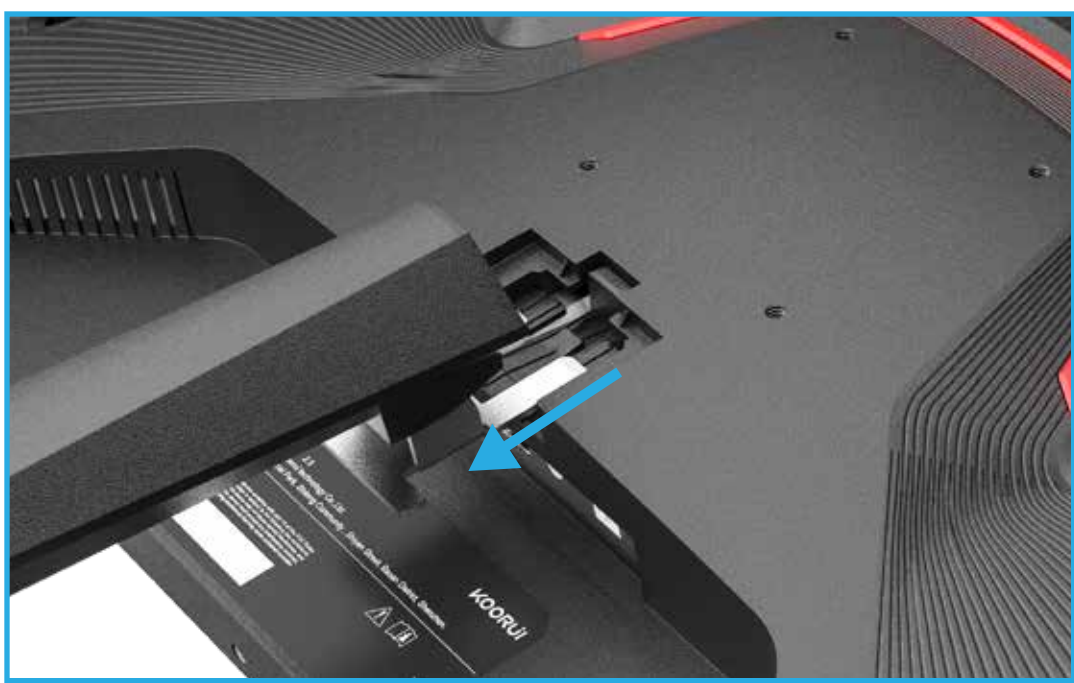
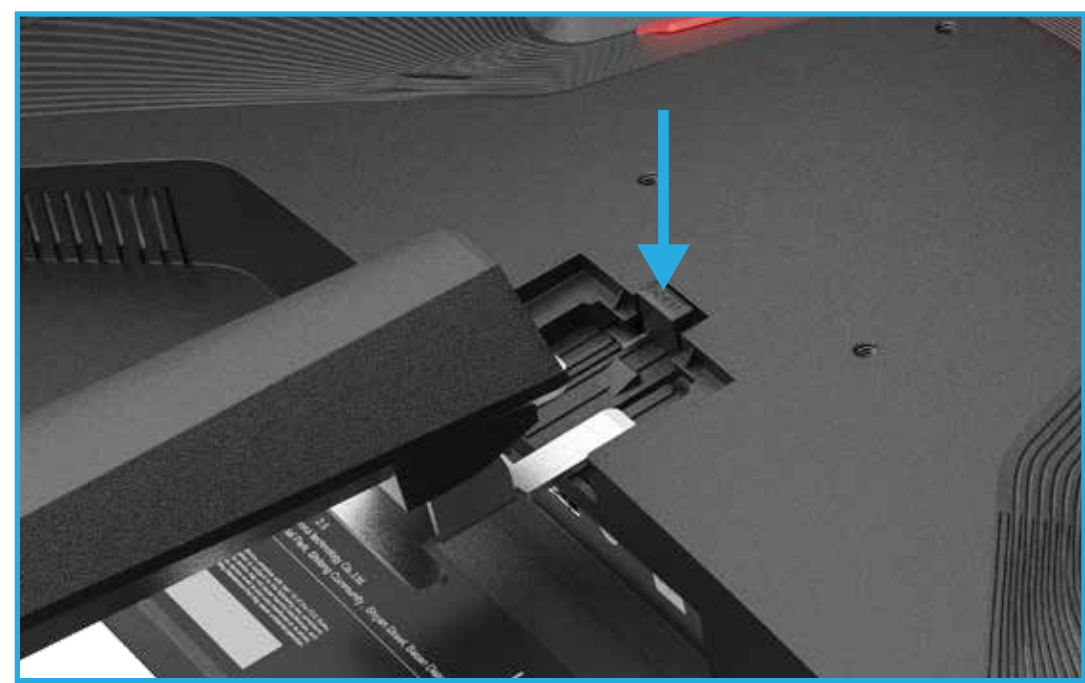


- Just remove the screws as shown in the figure. During the process of removal, please avoid the monitor from falling;
- Please follow figure 1.5 (operation of protecting the monitor) to pick and place the monitor,

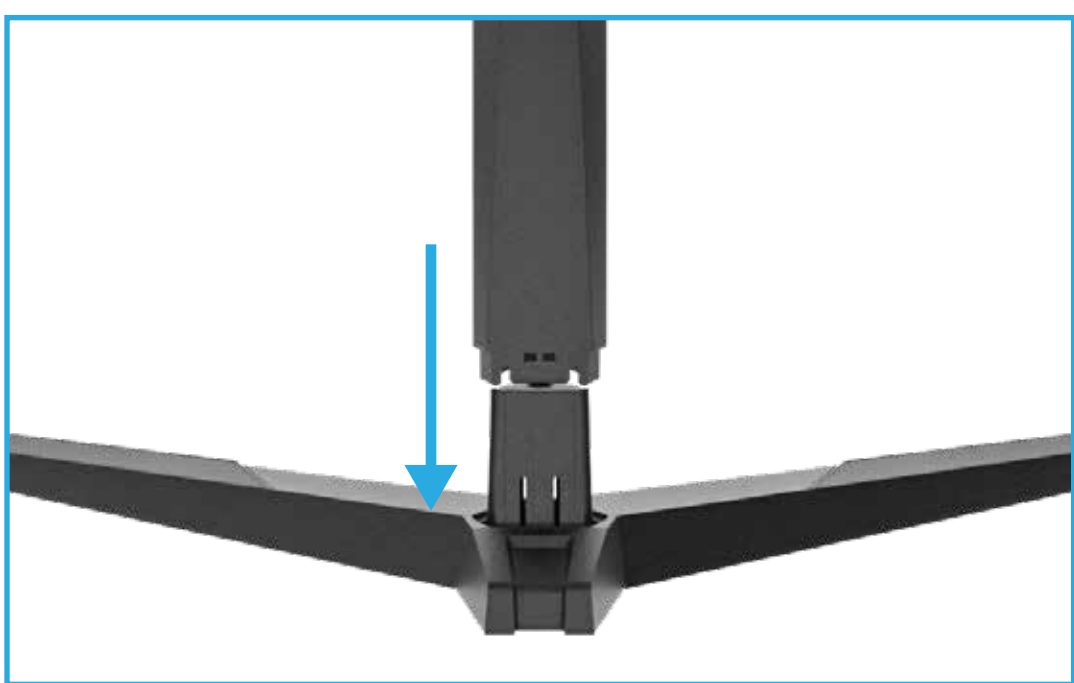
2.3.2 Disassembly Diagram of the Base



Place the foamed polystyrene (Mat) in the package on the floor and place the product face down on the foamed polystyrene as shown. If you don't have styrofoam, use a thick cushion.

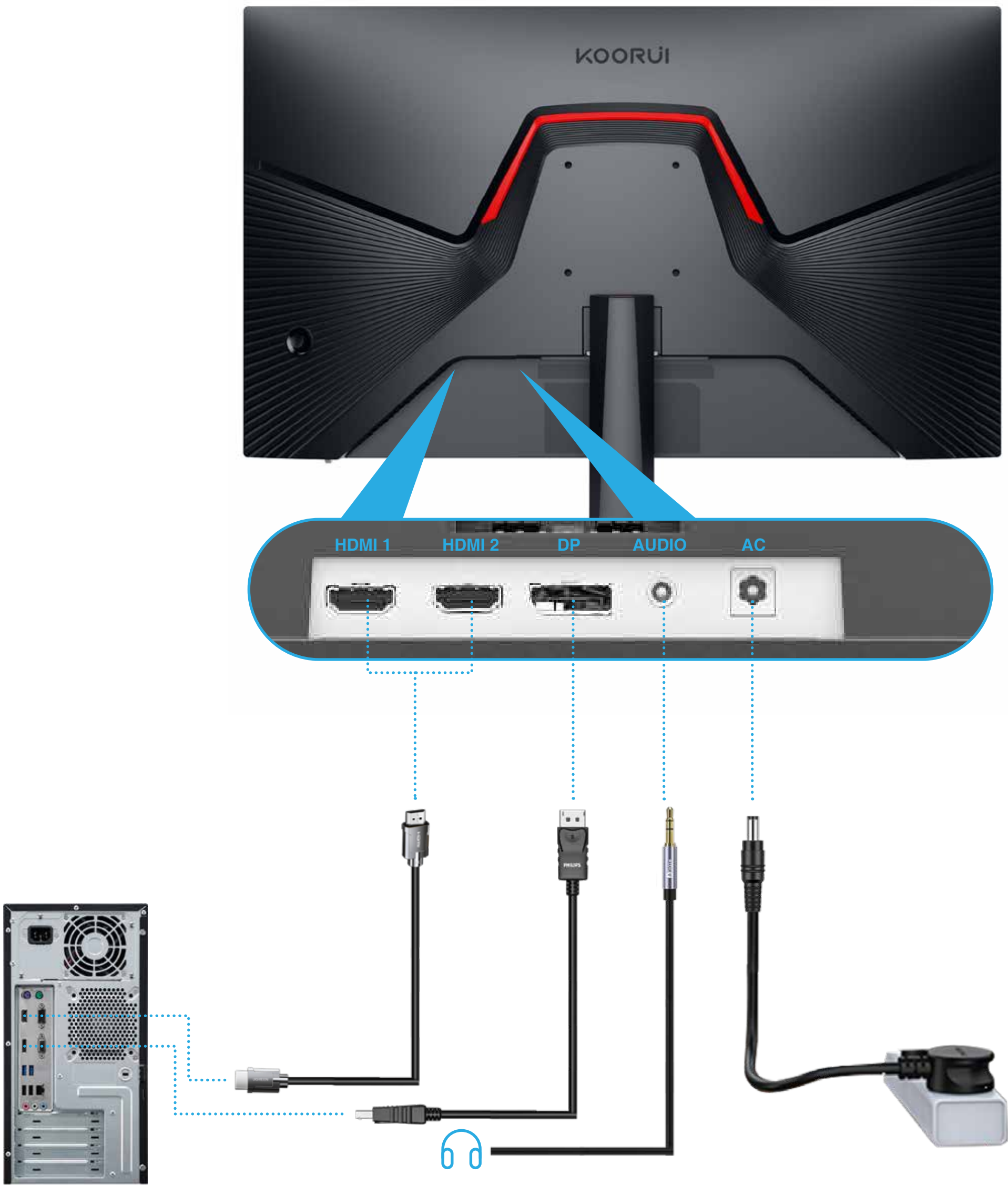


Hold down the "PUSH" button and exit the column assembly according to the operation direction in the figure;



Pre-press the hook and separate the column according to the direction shown in the figure;

2.4 Interface Description



Interface	Description of interface
 HDMI 1 HDMI 2	Use HDMI cable to connect to your PC.
 DP	Use DP cable to connect to your PC.
	Connect to audio output devices that support 3.5 mm headphones. Note: DVI and VGA do not support audio transmission.
	Connect to the AC power cord.

Connect and use the PC

- Choose the connection method that suits your PC.
- Different products may have different connecting parts.

- DP interface supports 1920*1080,165Hz; HDMI 1.4 supports 1920×1080, 144Hz. Please choose the connection method you need.

Connect and use the source device.

Read the following before installing the product.

- Before installing, please check the shape of the two ports of the attached signal cable and the shape and location of the ports on the product and external equipment.
- Before connecting the signal lines, be sure to connect from the product and the external equipment to prevent damage to the product due to short circuits or over-current.
- Connect the power cord back to the product and external equipment after properly connecting all the signal wires.
- After the installation, please be sure to read the user guide to familiarize with the correct use of products required products' features, cautions, and other information.

As for the operation and use of the source device, please read the user guide provided by the source device. If the original device signal is abnormal, it is recommended to contact the source device manufacturer first.

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

2.5 Adjust Product Inclination



2.6 Anti-theft Lock

Anti-theft lock is an anti-theft device that allows users to lock the product so as to use the product safely in public places.

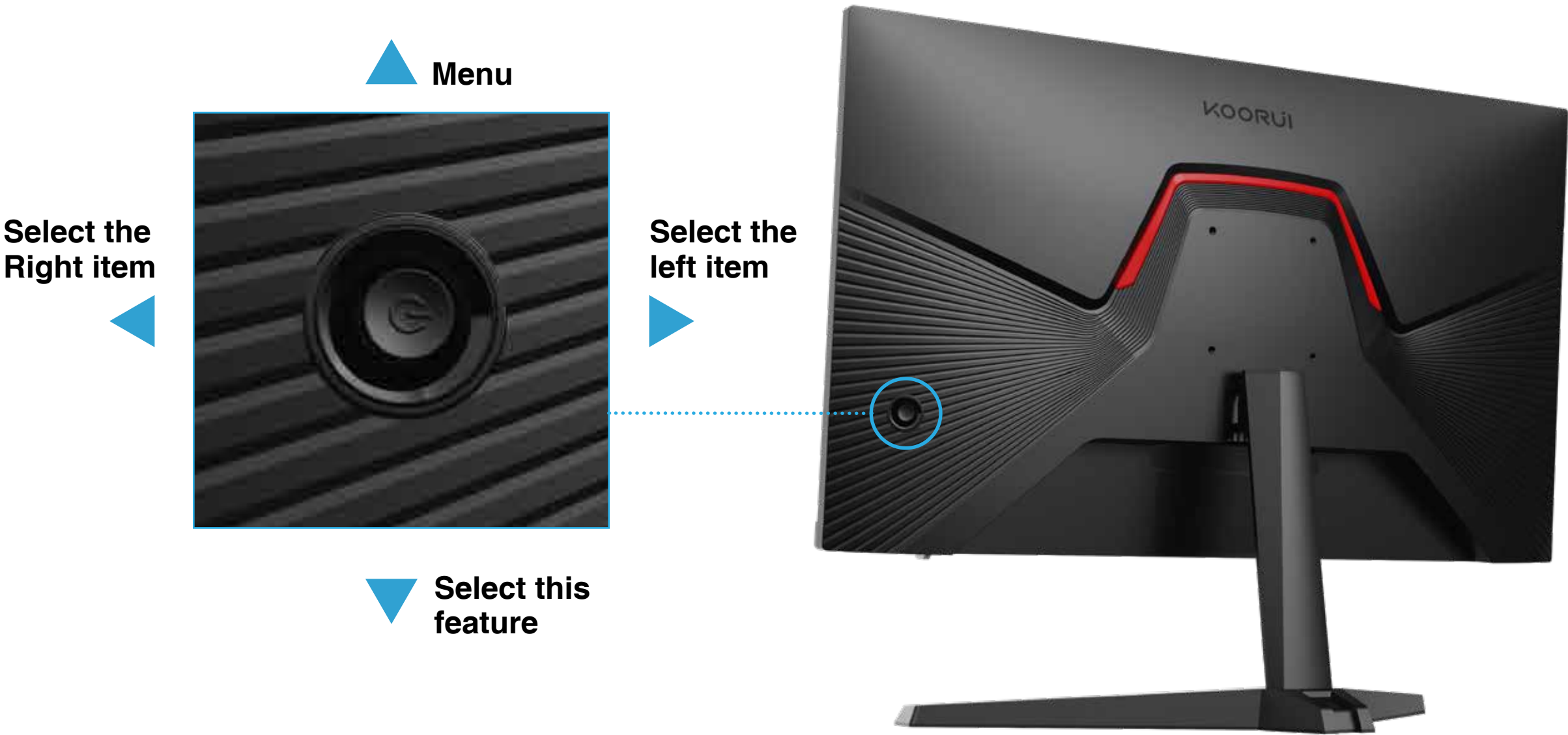
To lock an anti-theft locking device:



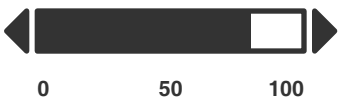
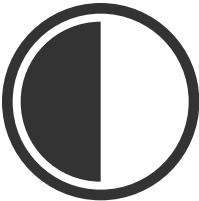
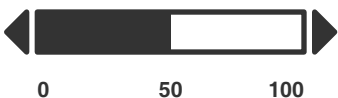
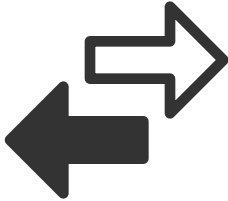
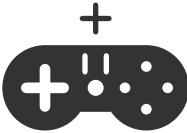
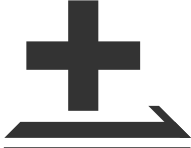
- Please buy the anti-theft lock device separately yourself.
- For more information, please refer to the user guide provided with your anti-theft lock device.

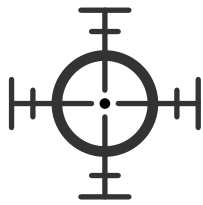
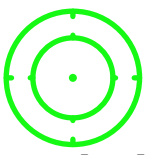
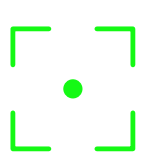
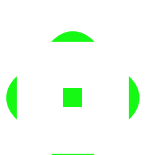
Chapter III OSD Function

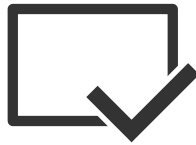
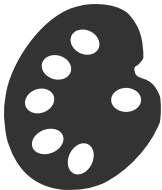
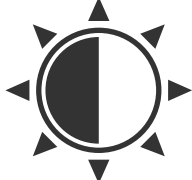
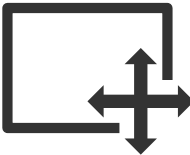
The OSD function information table of this product is as follows. If there is any question about the operation process, please contact Koorui customer services.

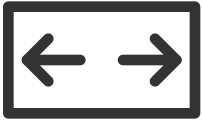
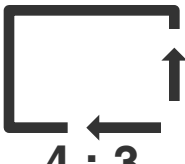
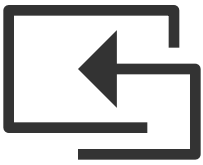
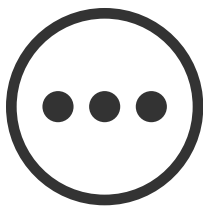
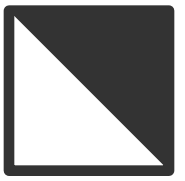
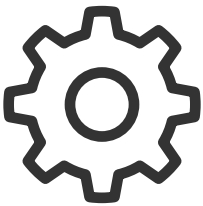
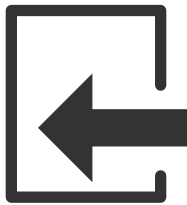
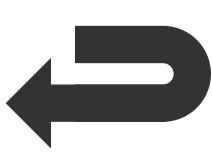


▲	Menu	Press this button to display the main menu, return to the previous menu or exit the main menu.
◀	Left	When the menu is open, the cursor moves left or the progress bar value decreases. When the menu is closed, act as the specified shortcut volume mode hotkey.
▶	Right	When the menu is opened, it is moved to the right or the progress bar value is incremented When the menu is closed, act as the specified shortcut volume mode hotkey.
▼	Fix on	If the menu is active, pressing this key selects the function: When the menu is closed, act as the specified shortcut Crosshair mode hotkey.
⏻	Power button	Press it to turn on/off the monitor.
🔌	Power LED	Remains on : normal working state ; Flashes : power-saving standby state.

First order menu	Secondary menu	Tertiary menu	Description
 Display	 Brightness		Can adjust the brightness of your display by pressing the left and right key -/+;
	 Contrast		Can adjust the Contrast of your display by pressing the left and right key -/+;
	 DCR	ON OR OFF	The brightness and contrast of the monitor can be controlled automatically to balance the brightness and darkness of the whole picture.
 Language	Chinese	/	The OSD language is Chinese.
	English	/	The OSD language is English.
	French	/	The OSD language is French.
	German	/	The OSD language is German.
	Italian	/	The OSD language is Italian.
	Japanese	/	The OSD language is Japanese.
 Game mode	 OD mode	 OFF	Turn off OD acceleration, and GTG response time is 5ms
		 Normal	Start general acceleration, GTG response time is 2ms
		 Extreme	Start rapid acceleration, GTG response time is 1ms

	 Crosshair	 Crosshair 1	Confirm to use this crosshair graphic sight (supported by the source equipment);
		 Crosshair 2	Confirm to use this crosshair graphic sight (supported by the source equipment);
		 Crosshair 3	Confirm to use this crosshair graphic sight (supported by the source equipment);
		 Crosshair 4	Confirm to use this crosshair graphic sight (supported by the source equipment);
		 Crosshair 5	Confirm to use this crosshair graphic sight (supported by the source equipment);
		 Crosshair 6	Confirm to use this crosshair graphic sight (supported by the source equipment);
	 FreeSync Premium	ON OR OFF	ON: Turn On; OFF: Turn Off Open freesync (need your source device support, open the display freesync before using);
	 Timer		After selection, turn on the 30-minute timer function (countdown will appear in the upper left corner).
			After selection, turn on the 40-minute timer function (countdown will appear in the upper left corner).
			After selection, turn on the 50-minute timer function (countdown will appear in the upper left corner).
			After selection, turn on the 60-minute timer function (countdown will appear in the upper left corner).
			After selection, turn on the 90-minute timer function (countdown will appear in the upper left corner).
			Turn off Timer Mode.

 Preset Mode	 Standard	/	Turn on Standard mode.
	 Movie	/	Turn on Movie mode.
	 FPS	/	Turn on FPS mode.
	 RTS	/	Turn on RTS mode.
	 Eye Saver	/	Turn on eye protection mode.
 Color temperature	 Cool	/	When confirmed, turn on cool color temperature mode.
	 Standard	/	When confirmed, Turn on Standard color temperature mode.
	 Warm	/	When confirmed, Turn on warm color temperature mode.
	 User		Fine-tune the red saturation level. The closer a value is to 100, the stronger the color.
			Fine-tune the blue saturation level. The closer a value is to 100, the stronger the color.
			Fine-tune the green saturation level. The closer a value is to 100, the stronger the color.
	 sRGB	/	Limit colors to the sRGB color gamut range
 Aspect Ratio	AUTO	/	Automatically find input source after selection.

	 16 : 9	/	Select to display the image of the sub-screen with an aspect ratio of 16 : 9.
	 4 : 3	/	Select an aspect ratio of 4: 3 to display the image of the sub-screen. Applicable to video and standard broadcasting.
 Input Source	 HDMI 1	/	Select HDMI 1 Signal Input (HDMI 1.4 port)
	 HDMI 2	/	Select HDMI 2 Signal Input (HDMI 1.4 port)
	 DP	/	Select DisplayPort Signal Input (DisplayPort port)
 Other	 Power Off	ON OR OFF	ON: Turn on Auto power off after 1min OFF: Turn off Auto power off after 1min PS: When the monitor goes to sleep
	 Gamma	 Gamma 1	Adjust Hue Brightness, Grayscale 1
		 Gamma 2	Adjust Hue Brightness, Grayscale 2
		/	Adjust the sound size. The higher the value, the louder the sound.
 Reset	YES OR NO	/	In addition to OSD language, you can reset your other option settings and revert to the factory settings of the product.
 Exit	/	/	Exit OSD menu.
/	 Return	/	Return to the previous menu (this selection only appears in the second\ third order settings).

Cautions:

- It's best to set response time and mode to standard when you're not watching a movie or playing a game.
- Under dynamic contrast, the brightness and contrast cannot be adjusted.
- In Standard mode, you will get the clearest display effect. Meanwhile, you can adjust according to your preferences
- In cinema mode, eye protection mode, RTS mode and FPS mode, the dynamic contrast mode (DCR) will be switched automatically, and the brightness and contrast can not be adjusted;
- In Eye Protection mode, the color temperature cannot be adjusted.
- If you have any other questions, you can consult Koorui customer service.

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.
The images on the screen look distorted.	Check the cable connection to the product.
The screen is not clear or blurry.	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.
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.
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.
An energy efficiency prompt appears on the monitor or there shows "XXS Power" "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.
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.	1. In the safe mode of the host, the resolution cannot be adjusted, please return to safe mode; 2. HDMI 1.4 only supports 1K 144HZ, 2K 60HZ; it is recommended to replace HDMI 2.0 interface or DP interface;