User Manual
KOORUI Monitor

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User Manual

Product Parameters

Product Parameters		Physical Properties	
MODEL NO.	22N1	Signal Cable Type	Separable
Display		Power Type	External power supply
LCD Technology	VA	Input Voltage	100~240V 47/63Hz
Reaction Time(G/G)	6ms（OD）	Input Current	5mA
Pixel Distance	0.248mm	Power Consumption	Boot≤30W
Video	HDMI / VGA		Sleep≤0.3W
Display Color	16.7M colors	VESA Mount supported	75×75mm
Image Ratio	16 : 9	Product Height	393.72mm
Perspective(typ.)	250cd / m2	Product Width	494.66mm
Resolution	1920×1080	Product Depth	181.0mm
Maximum Refresh Rate	75Hz	Product Weight	2.84KG
Viewing Angle (H / V)	178°/178°	FCL Weight	3.61KG
Static Contrast	3000 : 1	Output Port	
Dynamic Contrast	20000000 : 1	HDMI 1.4	1
sRGB color gamut	99%	VGA	1
Model Type	Digital Signal Analog Signal	Use Environment	
Language	English, Chinese, German, Japanese, Italian, French optional	Working Temperature	0~40℃
		Storage Temperature	-20~60℃
Eye Protection Mode	Yes	Working Humidity	10%~80%
Built-in Speaker	No	Storage Humidity	5%~95%

Contents

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			
CAUTION: TO REDUCE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). There are no user serviceable parts inside. Delegate all services to qualified personne.			
⚠️	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).	|⚠i|	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.
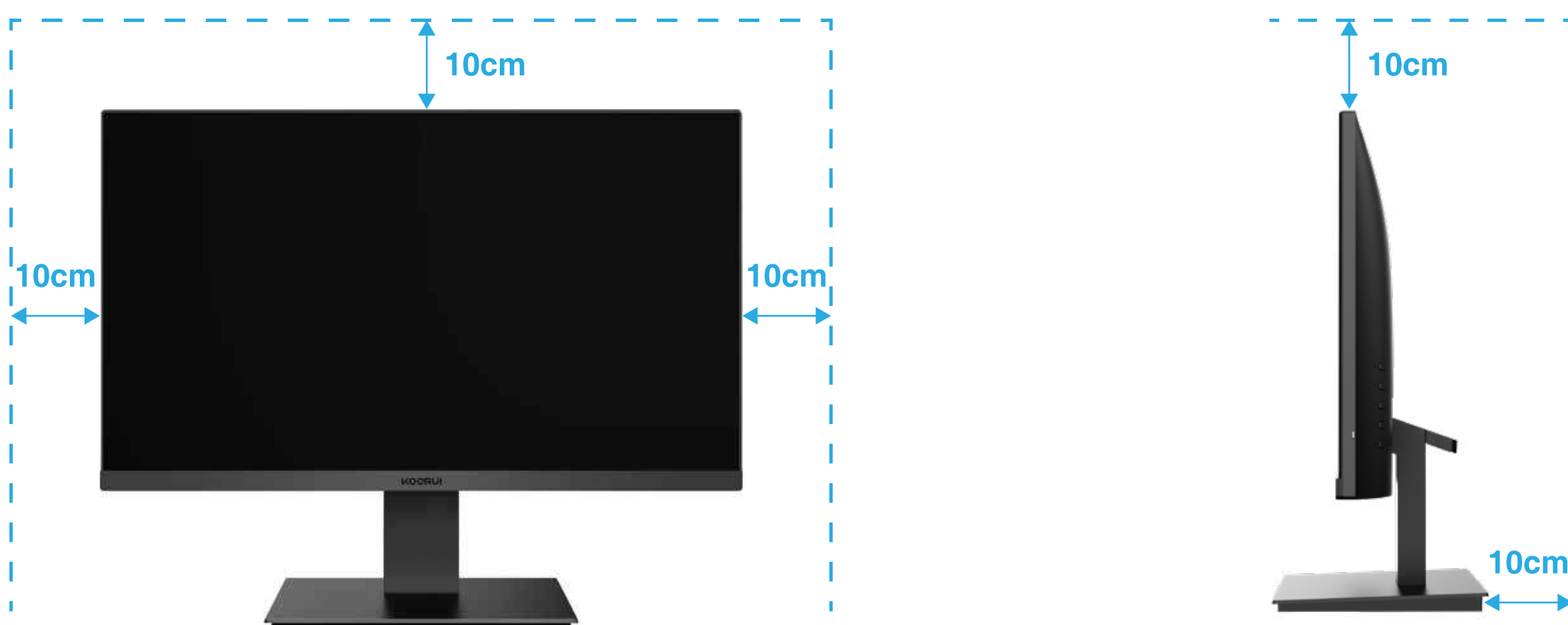
1.4 Protection Recommendations:

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.
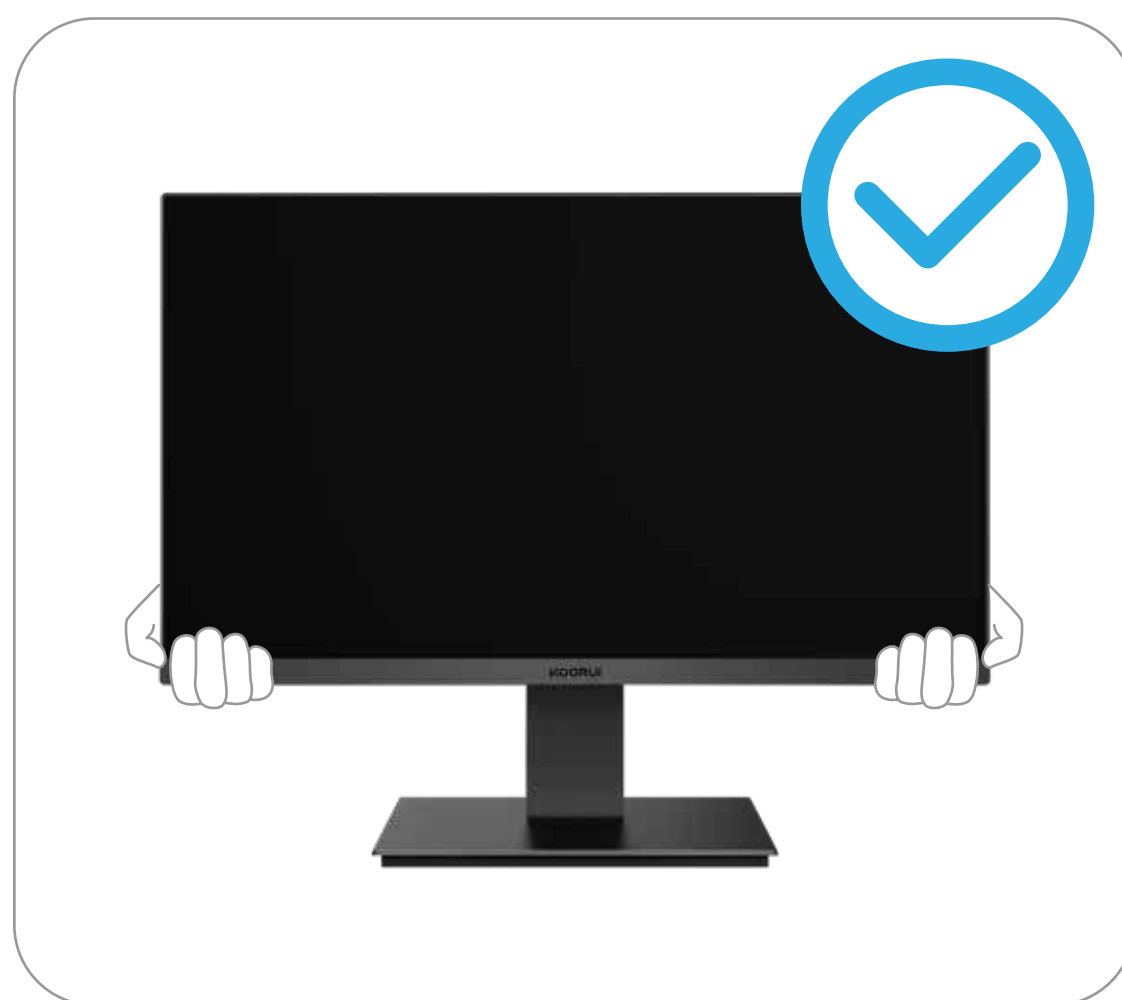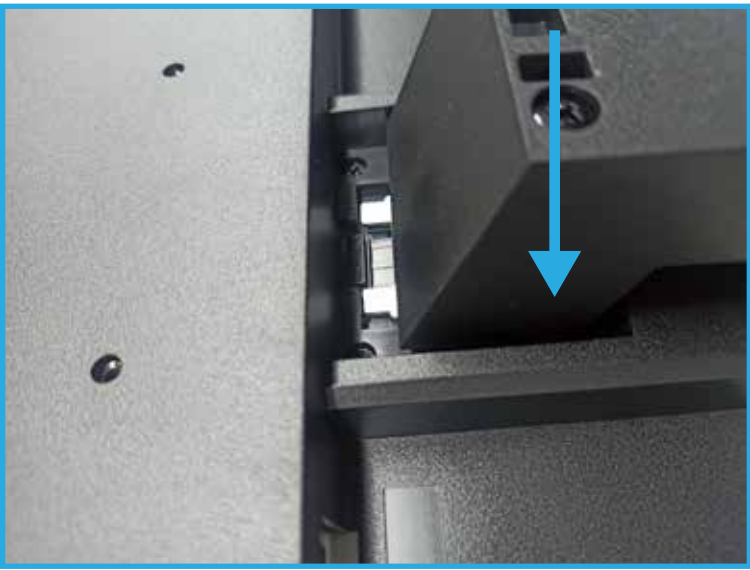
Chapter II Preparation Before Use

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.

Outer box	Monitor	Stand neck	Base
Adapter	HDMI Cable	User Manual	Cable management slot

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.

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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.
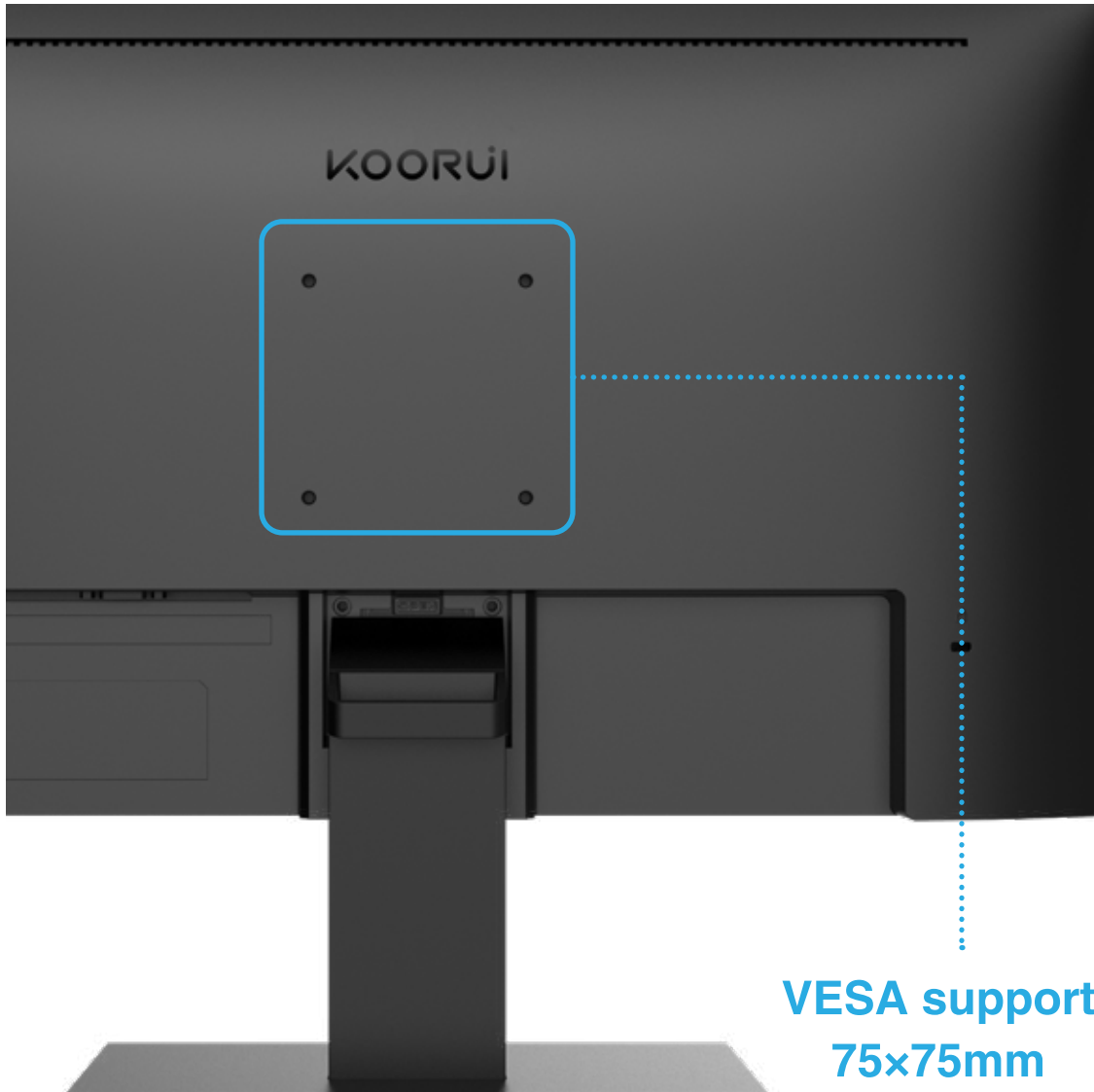
Take out the cable management slot, and verify that the monitor bracket is pushed in at an angle.

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.

Remove the
VESA screws

VESA support
75×75mm

● 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.

● Wall mounting screws require M4 screws, the length should not exceed 7mm.
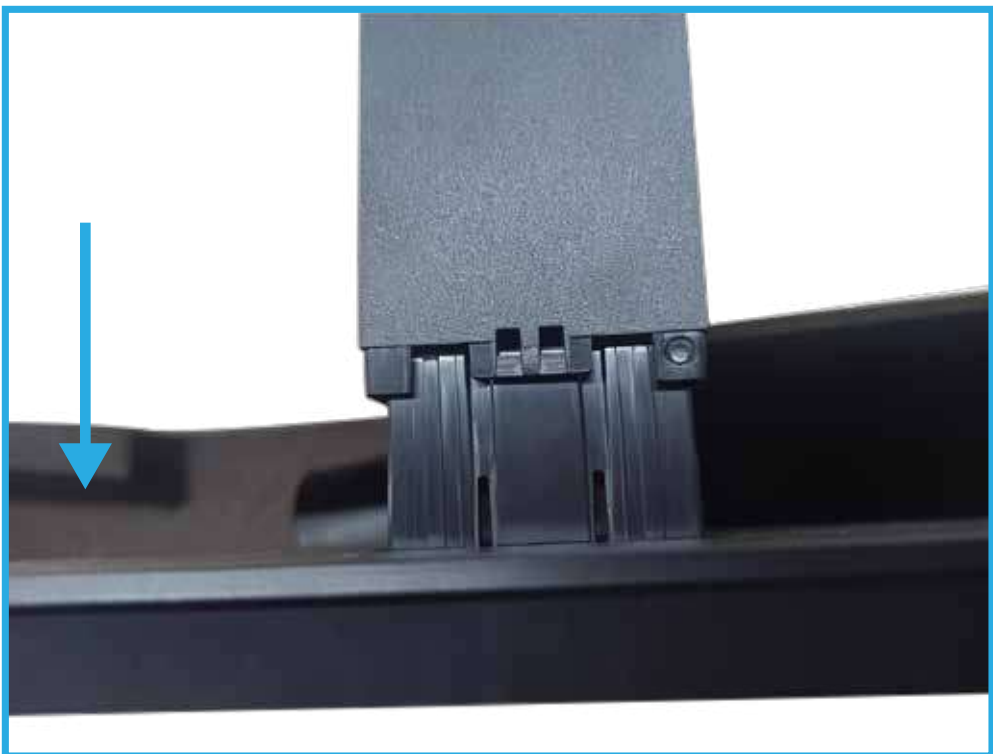
2.3 Holder removal

2.3.1 VESA Holder removal

Remove the VESA screws

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2.3.2 Monitor Holder removal

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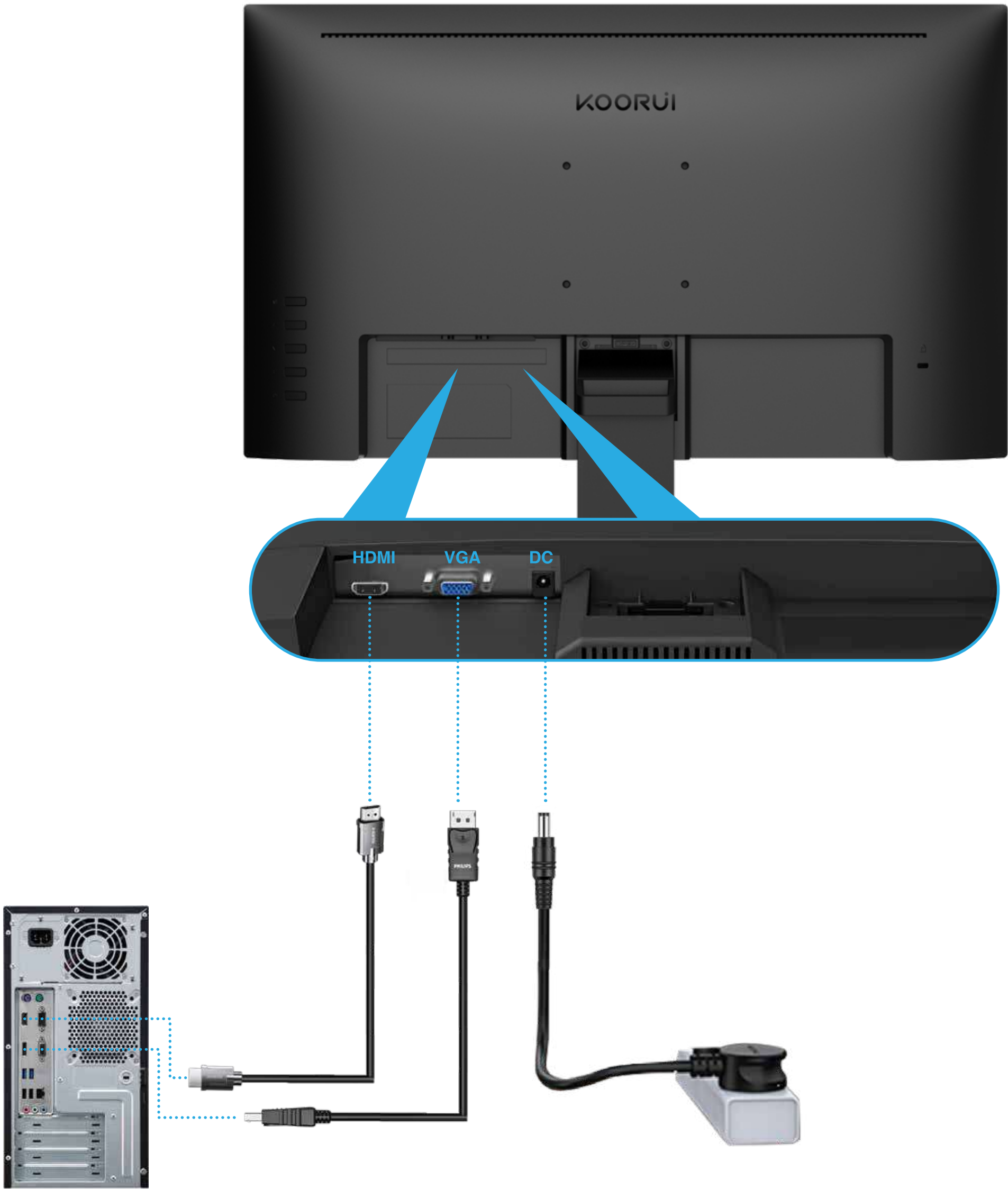the monitor stand
in two directions.

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

When fixing the monitor
stand, it is recommended
that you be in a safe and
open area, and then pull
out the cable
management slot with
a little force.

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2.4 Interface and Data Cable Connection Instructions

Port	Port Description
⬚ (VGA)	Connects to a PC using a VGA cable.
⬚ (HDMI)	Connects to a PC using a HDMI cable.
◎ (DC)	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.
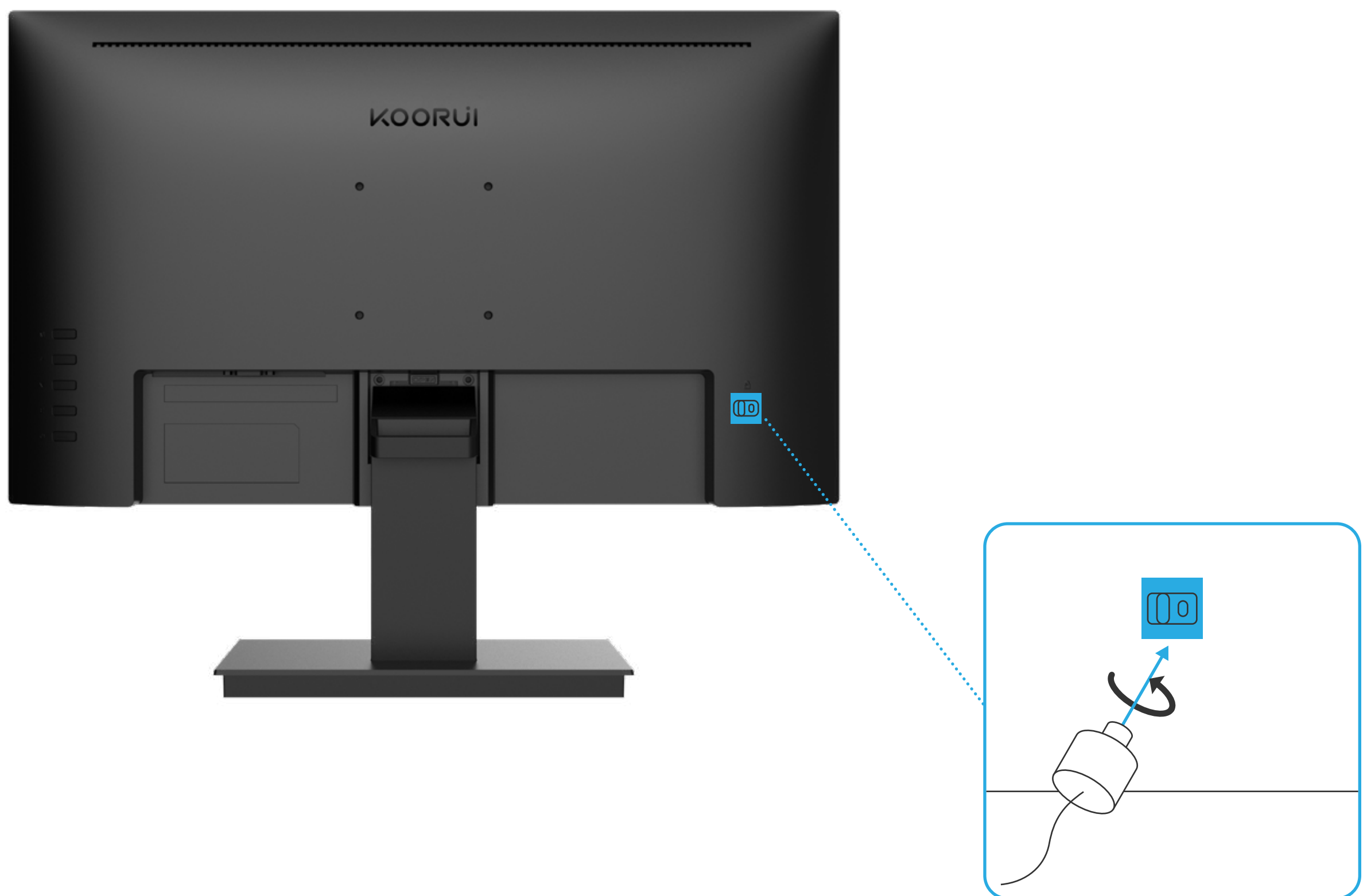
2.5 Adjusting the Product Tilt

Adjustable display with titl from -5°~15°

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.
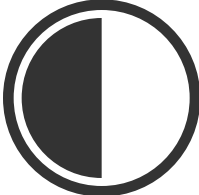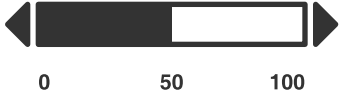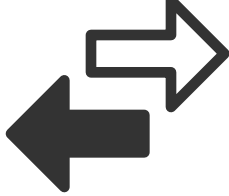
2.7 Preset display modes
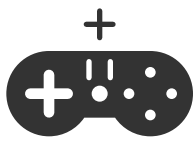
NO.	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1	720x400@70Hz	31.469	70.087
2	640x480@60Hz	31.469	59.94
3	640x480@72Hz	37.861	72.809
4	640x480@75Hz	37.5	75
5	800x600@56Hz	35.156	56.25
6	800x600@60Hz	37.879	60.317
7	800x600@72Hz	48.077	72.188
8	800x600@75Hz	46.875	75
9	832x624@75Hz	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
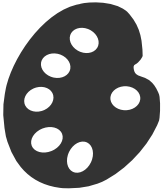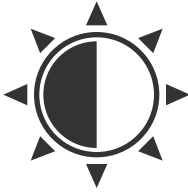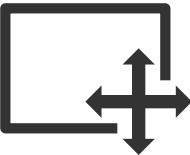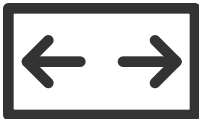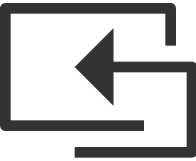
Chapter Ⅲ OSD Function
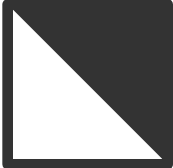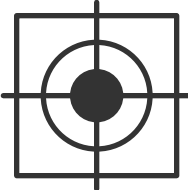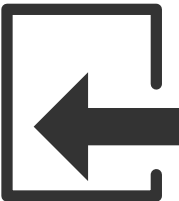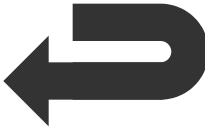
The OSD function information table of this product is as follows. If there is any question about the operation process, please contact Koorui customer services.

M	Menu	Press this button to display the main menu, return to the previous menu or exit the main menu.
▲	Up	When the menu is opened , press this button to select the right item , and the value of the progress bar will increase. When the menu is closed, act as the specified shortcut Preset mode hotkey.
▼	Down	When the menu is opened , press this button to select the left item , and the value of the progress bar will decrease.
E	Accessing menu	If the menu is active, pressing this key selects the function.
⏻	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	0 50 100	Adjustable the brightness of your display by pressing the left and right key -/+.
	Contrast	0 50 100	Adjustable the contrast of your display by pressing the left and right key -/+.
	DCR	ON OR OFF	ON: Turn On; OFF: Turn Off Automatic identification output dynamic adjustment can be selected; If you choose dynamic contrast, manually adjusting brightness and darkness will automatically turn off.

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Language	**Chinese**	/	After confirmation by "E", the OSD menu options will be changed to Chinese language;
	English	/	After confirmation by "E", the OSD menu options will be changed to English language;
	French	/	After confirmation by "E", the OSD menu options will be changed to French language;
	German	/	After confirmation by "E", the OSD menu options will be changed to German language;
	Italian	/	After confirmation by "E", the OSD menu options will be changed to Italian language;
	Japanese	/	After confirmation by "E", the OSD menu options will be changed to Japanese language;
Game mode	**OD mode**	ON OR OFF	ON: Turn On; OFF: Turn Off Turn on OD 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 (when turned on, DCI-P3 mode will be automatically exited).
	Warm	/	When confirmed, Turn on warm color temperature mode (when turned on, DCI-P3 mode will be automatically exited).
	User	R	Adjust the red saturation level. Values closer to 100 indicate greater color intensity.
		G	Adjust the green saturation level. Values closer to 100 indicate greater color intensity.
		B	Adjust the blue saturation level. Values closer to 100 indicate greater color intensity.
Aspect Ratio	**AUTO**	/	After selection, automatically find the input source.
	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	**VGA**	/	Select VGA Signal Input.
	HDMI	/	Select HDMI Signal Input (HDMI 1.4 Interface).

Other	Power Off	ON OR OFF	Turn on the power off, and the display will be automatically turned off after 4H.
	Gamma	Gamma 1	Select Gamma Mode 1 to use.
		Gamma 2	Select Gamma Mode 2 to use.
	Adjust	/	VGA Signal Image Adjust (only supports VGA signal).
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).

Precautions:
- When you are not watching movies or games, it is best to set the response time and mode to standard.
- Under dynamic contrast, brightness and contrast cannot be adjusted.
- Standard mode, get the clearest display effect, and adjust it according to your preference.
- Cinema mode, eye protection mode, FPS mode and RTS mode cannot adjust brightness and contrast.
- Eye protection mode cannot adjust color temperature.
- If you have any other questions, you can consult Koorui customer service staff.

Chapter IV Common Applications

4.1 Resolution and Refresh Rate Setting

4.1.1 Resolution settings

Windows Settings → System → Screen → Display Resolution

4.1.2 Refresh rate setting

Windows Settings → System → Screen → Advanced Display Settings
→ Refresh Rate
In Multiple Screen Control, in Advanced Display Settings, select the display you want to set.

4.2 Display expansion

Screen expansion function setting.
Windows Settings → System → Screen → Multiple Display Settings
→ Select "Expand This Display"

4.3 Personalized fonts

(Including: blurred fonts, desktop fonts with colors)
Windows Settings → Personalize → Font → Adjust ClearType text and change
Turn on ClearType.

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

Blank spaces are found on all four sides of the screen when an HDMI or DP cable is connected to the product and PC.	The blank spaces found on the screen have nothing to do with the product. Blank spaces on the screen are caused by the PC or graphics card. To resolve the problem, adjust the screen size in the HDMI or DP settings for the graphics card. If the graphics card settings menu does not have an option to adjust the screen size, update the graphics card driver to the latest version. (Please contact the graphics card or PC manufacturer for further details about how to adjust the screen settings.)
The power LED is off. The screen will not turn on.	Check that the power cable is connected properly. If a problem occurs with the monitor screen, run Self Diagnosis to check that the monitor is working properly.
Not Optimum Mode is displayed.	This message appears when the signal from the graphics card exceeds the maximum resolution or frequency for the product. Change the maximum resolution and frequency to suit the product performance.
The images on the screen look distorted.	Check the cable connection to the product.
The screen is not clear or blurry.	Remove any accessories (video extension cable, etc.) and try again. Set the resolution and frequency to the recommended level.
The screen appears unstable and shaky. There are shadows or ghost images left on the screen.	Check that the resolution and frequency for the PC are within the range of resolution and frequency compatible with the product. Next, if required, change the settings, referring to Standard Signal Mode.
The screen is too bright or too dark.	Adjust Brightness and Contrast.
Screen colour is inconsistent.The colour on the screen have a shadow and are distorted. White does not really look white.	Change the Color Settings.
There is no image on the screen and the power LED blinks every 0.5 to 1 second.	The product is operating in power-saving mode.Press any key on the keyboard or move the mouse to return to normal operating mode. Observe whether the computer operates or restarts the device through the PC keyboard Caps Lock.
Video playback is choppy.	Playback of high-definition large video files can be choppy. This may be because the video player is not optimized for the PC resource. Try playing the file on another video player.

An energy efficiency prompt appears on the monitor or "XXS Power down. MENU Key Cancel" appears in the upper left corner of the monitor	When you buy and sell European products, European regulations have energy efficiency requirements
The monitor quickly goes to a black screen state (no display)	Under the power setting state, the monitor is turned off for a short time Windows settings==>system==>power and sleep==>screen==>Reset the TIME