AOC

LCD Monitor

User Manual

Q27P3CV

HDMI®

HIGH-DEFINITION MULTIMEDIA INTERFACE

Safety

National Conventions

The following subsections describe national conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:

NOTE: A NOTE indicates important information that helps you make better use of your computer system.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

Power

⚠ The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.

⚠ The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.

⚠ Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.

⚠ Do not overload power strips and extension cords. Overloading can result in fire or electric shock.

⚠ To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 5A.

⚠ The wall socket shall be installed near the equipment and shall be easily accessible.

Installation

⚠ Do not place the monitor on an unstable cart, stand, tripod, bracket, or table. If the monitor falls, it can injure a person and cause serious damage to this product. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with this product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. A product and cart combination should be moved with care.

⚠ Never push any object into the slot on the monitor cabinet. It could damage circuit parts causing a fire or electric shock. Never spill liquids on the monitor.

⚠ Do not place the front of the product on the floor.

⚠ If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

⚠ Leave some space around the monitor as shown below. Otherwise, air-circulation may be inadequate hence overheating may cause a fire or damage to the monitor.

⚠ To avoid potential damage, for example the panel peeling from the bezel, ensure that the monitor does not tilt downward by more than -5 degrees. If the -5 degree downward tilt angle maximum is exceeded, the monitor damage will not be covered under warranty.

See below the recommended ventilation areas around the monitor when the monitor is installed on the wall or on the stand:

Installed with stand
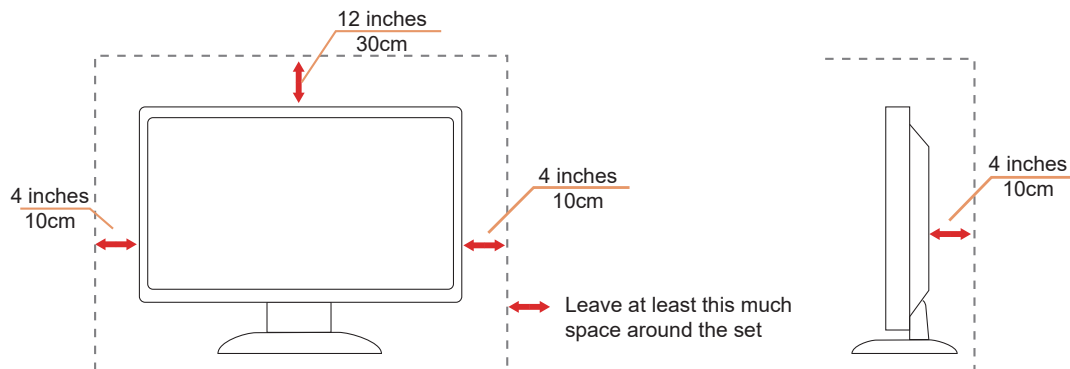
Cleaning

⚠️ Clean the cabinet regularly with a water-dampened, soft cloth.

⚠️ When cleaning use a soft cotton or microfiber cloth. The cloth should be damp and almost dry, do not allow liquid into the case.

⚠️ Please disconnect the power cord before cleaning the product.

Other

⚠ If the product is emitting a strange smell, sound or smoke, disconnect the power plug IMMEDIATELY and contact a Service Center.

⚠ Make sure that the ventilating openings are not blocked by a table or curtain.

⚠ Do not engage the LCD monitor in severe vibration or high impact conditions during operation.

⚠ Do not knock or drop the monitor during operation or transportation.

⚠ The power cords shall be safety approved. For Germany, it shall be H03VV-F, 3G, 0.75 mm2, or better. For other countries, the suitable types shall be used accordingly.

⚠ Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to maximum increases the earphones and headphones output voltage and therefore the sound pressure level.

Setup

Contents in Box

Monitor

Quick Start guide   Warranty Card   Stand   Base
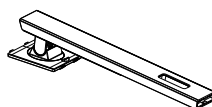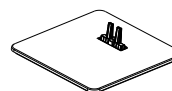
Power Cable   HDMI Cable   DP Cable   USB C-C Cable   USB C-A Cable   USB C-C/A Cable

✱Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

Stand & Base Setup

Please setup or remove the base following the steps as below.

Setup:
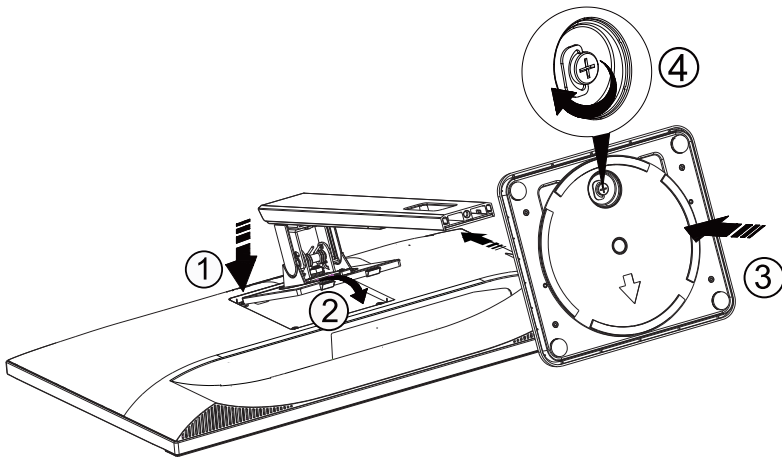
Remove:
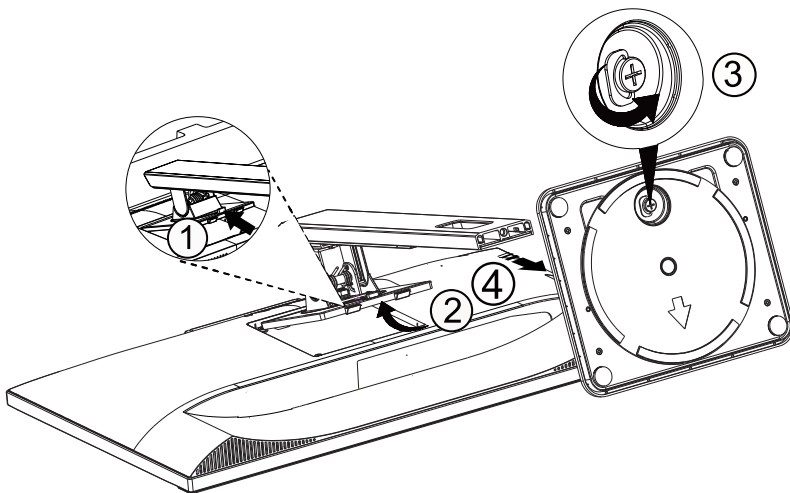
Specification for base screw: M6*16 mm (effective thread 5.8 mm)
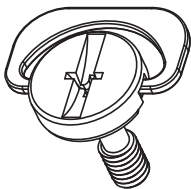
Adjusting Viewing Angle

To achieve the best viewing experience, it is recommended that the user can make sure they are able to look at their whole face on the screen, then adjust the monitor's angle based on personal preference.
Hold the stand so you will not topple the monitor when you change the monitor's angle.
You are able to adjust the monitor as below:
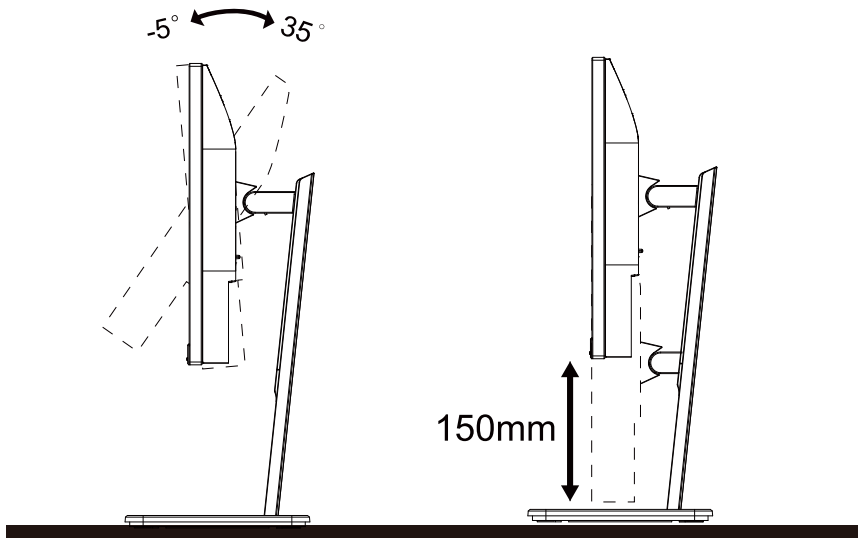
NOTE:

Do not touch the LCD screen when you change the angle.Touching the LCD screen may cause damage.

WARNING:

1. To avoid potential screen damage, such as panel peeling, ensure that the monitor does not tilt downward by more than -5 degrees.
2. Do not press the screen while adjusting the angle of the monitor. Grasp only the bezel.

Connecting the Monitor

Cable Connections In Back of Monitor:
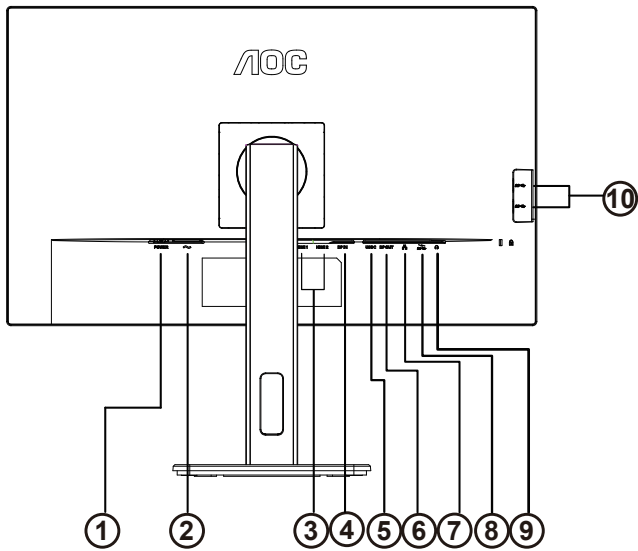
1. Power switch
2. Power
3. HDMI1/HDMI2
4. DP IN
5. USB C
6. DP OUT
7. RJ45 Input
8. USB3.2 Gen1 downstream + fast chargingx1
    USB3.2 Gen1x1
9. Earphone
10. USB3.2 Gen1x2

Connect to PC

1. Connect the power cord to the back of the display firmly.
2. Turn off your computer and unplug its power cable.
3. Connect the display signal cable to the video connector of your computer.
4. Plug the power cord of your computer and your display into a nearby outlet.
5. Turn on your computer and display.

If your monitor displays an image, installation is complete. If it does not display an image, please refer to Troubleshoot.

To protect equipment, always turn off the PC and LCD monitor before connecting.

USB docking
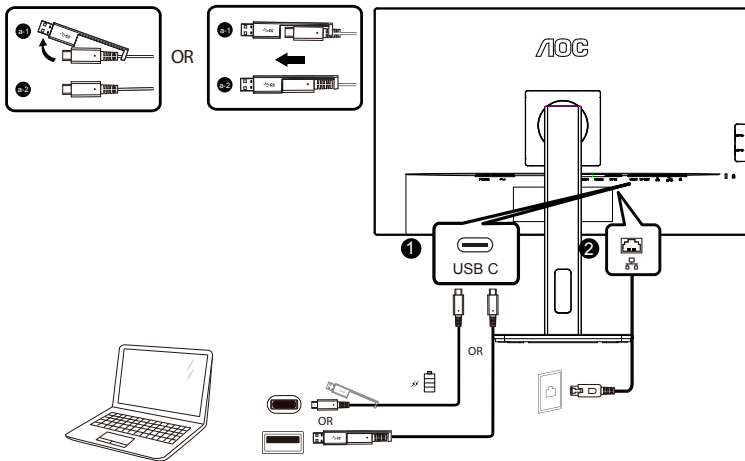
RJ-45 LAN driver installation

Install Realtek LAN driver before using this USB-C docking display. This driver is available for download at AOC website, under the "Drivers & Software" section.

Wall Mounting

Preparing to Install An Optional Wall Mounting Arm.
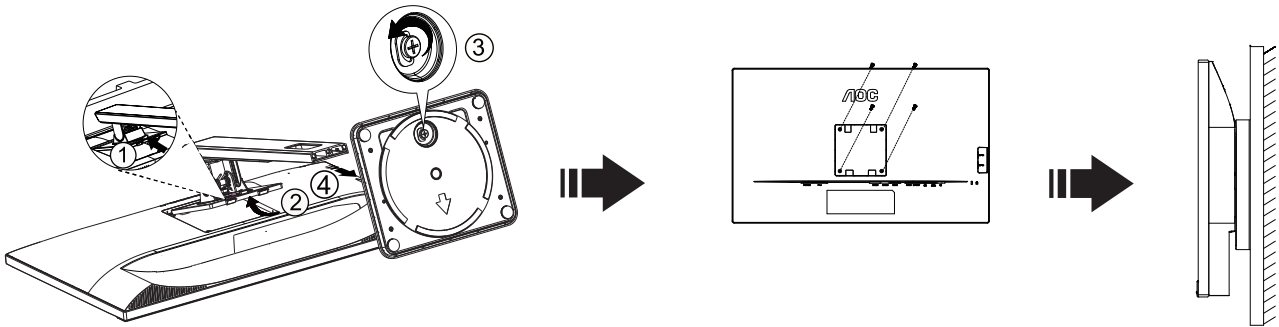
This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this procedure. Follow these steps:

1. Remove the base.

2. Follow the manufacturer's instructions to assemble the wall mounting arm.

3. Place the wall mounting arm onto the back of the monitor. Line up the holes of the arm with the holes in the back of the monitor.

4. Insert the 4 screws into the holes and tighten.

5. Reconnect the cables. Refer to the user's manual that came with the optional wall mounting arm for instructions on attaching it to the wall.
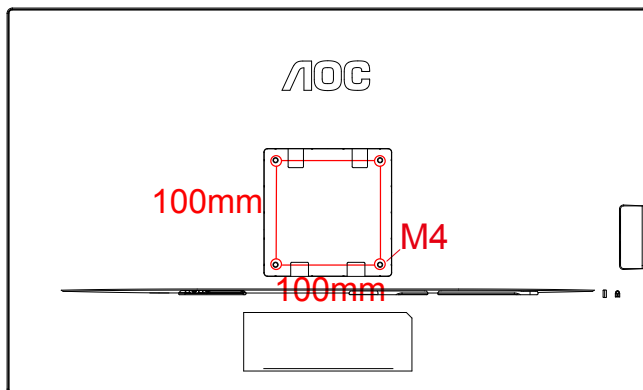
Specification of wall hanger screws M4*(10+X)mm, (X=Thickness of Wall mount bracket)
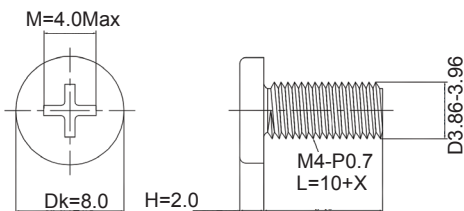
Note: VESA mounting screw holes are not available for all models, please check with the dealer or official department of AOC. Always contact manufacturer for wall-mount installation.
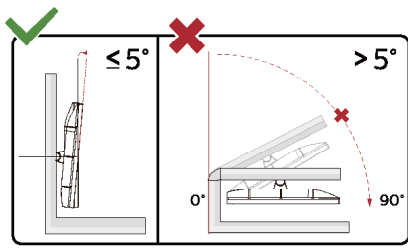
* Display design may differ from those illustrated.

WARNING:

1. To avoid potential screen damage, such as panel peeling, ensure that the monitor does not tilt downward by more than -5 degrees.
2. Do not press the screen while adjusting the angle of the monitor. Grasp only the bezel.

Adaptive-Sync function

1. Adaptive-Sync function works with DP/HDMI
2. Compatible Graphics Card: Recommended list is as below, also could be checked by visiting www.AMD.com

Graphics Cards

- Radeon™ RX Vega series
- Radeon™ RX 500 series
- Radeon™ RX 400 series
- Radeon™ R9/R7 300 series （R9 370/X, R7 370/X, R7 265 except）
- Radeon™ Pro Duo (2016)
- Radeon™ R9 Nano series
- Radeon™ R9 Fury series
- Radeon™ R9/R7 200 series (R9 270/X, R9 280/X except)

Processors

- AMD Ryzen™ 7 2700U
- AMD Ryzen™ 5 2500U
- AMD Ryzen™ 5 2400G
- AMD Ryzen™ 3 2300U
- AMD Ryzen™ 3 2200G
- AMD PRO A12-9800
- AMD PRO A12-9800E
- AMD PRO A10-9700
- AMD PRO A10-9700E
- AMD PRO A8-9600
- AMD PRO A6-9500
- AMD PRO A6-9500E
- AMD PRO A12-8870
- AMD PRO A12-8870E
- AMD PRO A10-8770
- AMD PRO A10-8770E
- AMD PRO A10-8750B
- AMD PRO A8-8650B
- AMD PRO A6-8570
- AMD PRO A6-8570E
- AMD PRO A4-8350B
- AMD A10-7890K
- AMD A10-7870K
- AMD A10-7850K
- AMD A10-7800
- AMD A10-7700K
- AMD A8-7670K
- AMD A8-7650K
- AMD A8-7600
- AMD A6-7400K

Daisy-chain function

DisplayPort Multi-Stream feature enables multiple monitor connections.
This display is equipped with DisplayPort interface and DisplayPort over USB-C which enables daisy-chaining to multiple displays.
To daisy-chain monitors, first to check below:
1.Make sure the GPU on your PC support DisplayPort MST (Multi-stream transport)
2.Select the input source: press the Menu-button>Extra>Input Select>DP/USB C(depend on the input source)
3.Set the "MST" to "On": press the Menu-button>OSD Setup>MST>On
Note: If you cannot set the "MST" to "On", please confirm that the input source is not "Auto".

Note:
Depending on the capabilities of your graphic cards, you should be able to daisy chain multiple displays with various configurations. Your display configurations will depend on your graphic card capabilities. Please check with your graphic card vendor and always update your graphic card driver.

DisplayPort multi-streaming over DisplayPort
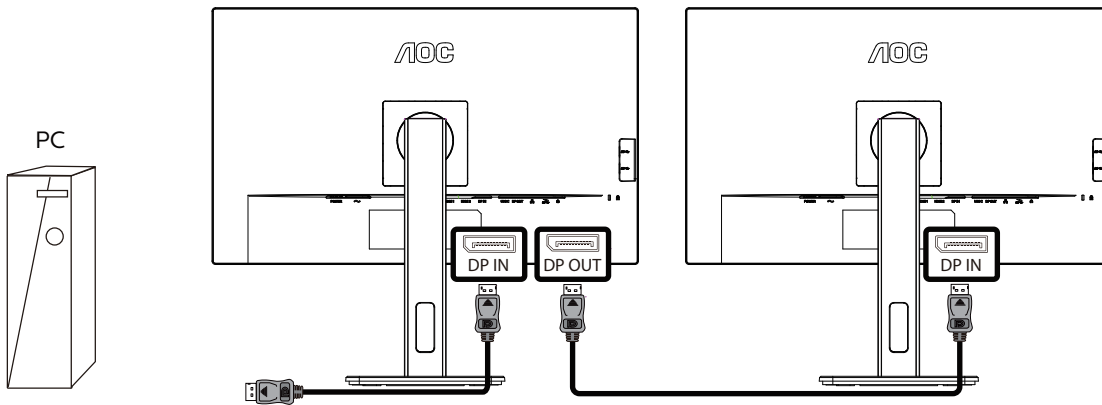
Display Resolution	Maximum number of external monitors that can be supported
2560x1440@60Hz	2

DisplayPort multi-streaming over USB C
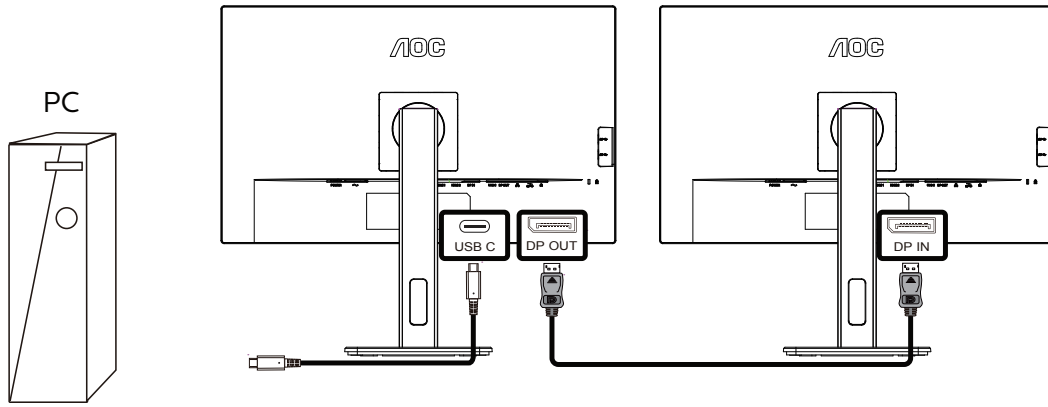
Display Resolution	Link Rate	USB Settings	Maximum number of external monitors that can be supported
2560x1440@60Hz	HBR2	High Res.	2
		High Speed	1
	HBR3	High Res.	2
		High Speed	2

Note:
We recommend to set USB Setting to USB High Speed which supports the LAN speed to 1000M.

Adjusting

Hotkeys
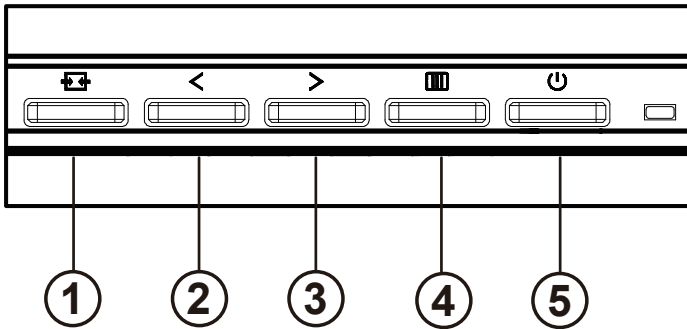
1	Source/Exit
2	Clear Vision/<
3	Volume/>
4	Menu/Enter
5	Power

Menu/Enter

When there is no OSD, Press to display the OSD or confirm the selection. Press about 2 second to turn off the monitor.

Power

Press the Power button to turn on the monitor.

Volume/increase

When the OSD menu is closed, press the ">" key to open the volume adjustment bar, and press the "<" or ">" key to adjust the headphone output volume.

Source/Exit

When the OSD is closed, press Source/Exit button will be Source hot key function.

Clear Vision

1. When there is no OSD, Press the "<" button to activate Clear Vision.

2. Use the "<" or ">" buttons to select between weak, medium, strong, or off settings. Default setting is always "off".
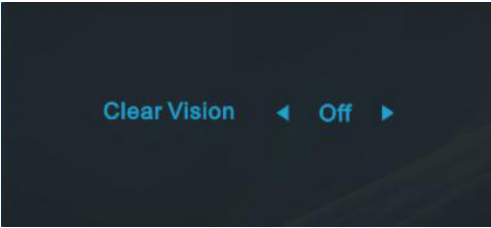
3. Press and hold "<" button for 5 seconds to activate the Clear Vision Demo, and a message of "Clear Vision Demo: on" will be displayed screen for a duration of 5 seconds. Press Menu or Exit button, the message will disappear. Press and hold "<" button for 5 seconds again, Clear Vision Demo will be off.
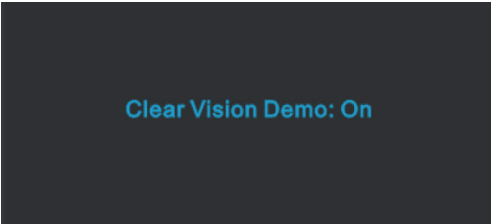
Clear Vision function provides the best image viewing experience by converting low resolution and blurry images into clear and vivid images.

	Off	
Clear Vision	Weak	Adjust the Clear Vision
	Medium	
	Strong	
Clear Vision Demo	On or Off	Disable or Enable Demo

OSD Setting

Basic and simple instruction on the control keys.

Luminance	Color Setup	Picture Boost	OSD Setup	Game Setting	Extra	Exit

Contrast	50	Gamma	◄ Gamma 1 ►	DPS	◄ On ►
Brightness	70	DCR	◄ Off ►		
Eco mode	◄ Standard ►	HDR Mode	◄ Off ►		

1). Press the ⅢI **Menu-button** to activate the OSD window.

2). Press ‹ **Left** or › **Right** to navigate through the functions. Once the desired function is highlighted, press the ⅢI **Menu-button** to activate it, press ‹ **Left** or › **Right** to navigate through the sub-Menu functions. Once the desired function is highlighted, press ⅢI **Menu-button** to activate it.

3). Press ‹ **Left** or › to change the settings of the selected function. Press ✛✛ to exit. If you want to adjust any other function, repeat steps 2-3.

4). OSD Lock Function: To lock the OSD, press and hold the ⅢI Menu-button while the monitor is off and then press ⏻ power button to turn the monitor on. To unlock the OSD - press and hold the ⅢI Menu-button while the monitor is off and then press ⏻ power button to turn the monitor on.

Notes:

1). If the product has only one signal input, the item of "Input Select" is unable to be adjusted.

2). If the screen size of the product is 4:3 or the input signal resolution is the native resolution, then the item "Image Ratio" is invalid.

3). DCR and Picture Boost, for these states that only one state can exist

Luminance

Luminance	Color Setup	Picture Boost	OSD Setup	Game Setting	Extra	Exit	

Contrast	▬▬▬ 50	Gamma ◄ Gamma 1 ►	DPS ◄ On ►
Brightness	▬▬▬ 70	DCR ◄ Off ►	
Eco mode	◄ Standard ►	HDR Mode ◄ Off ►	
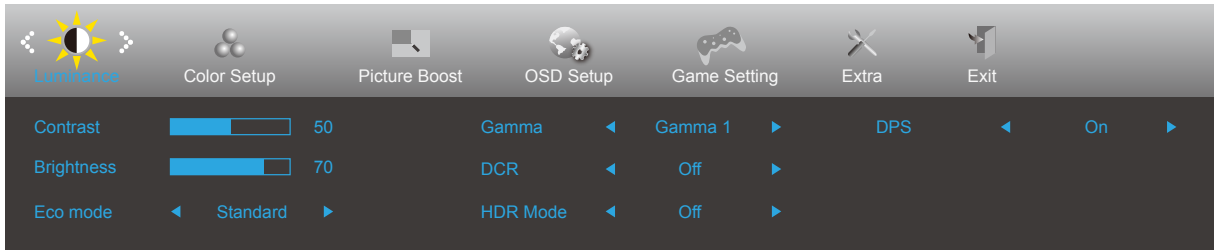
	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment
	Eco mode	Standard	✓	Standard Mode
		Text	T	Text Mode
		Internet	e	Internet Mode
		Game		Game Mode
		Movie		Movie Mode
		Sports		Sports Mode
		Reading	R	Reading Mode
	Gamma	Gamma1		Adjust to Gamma 1
		Gamma2		Adjust to Gamma 2
		Gamma3		Adjust to Gamma 3
	DCR	Off		Disable dynamic contrast ratio
		On	DCR	Enable dynamic contrast ratio
	HDR Mode	Off		Adjust HDR Mode.
		HDR Picture		
		HDR Movie		
		HDR Game		
	DPS	On/Off		Adjust the brightness according to pattarn intensity.

Note:

When "HDR Mode" is set to a non-off state, "Contrast", "Eco Mode", and "Gamma" items cannot be adjusted.

Color Setup

Color Setup	Picture Boost	OSD Setup	Game Setting	Extra	Exit	Luminance

Color Temp.	◄ Warm ►	Red	50
DCB Mode	◄ Off ►	Green	50
DCB Demo	◄ Off ►	Blue	50
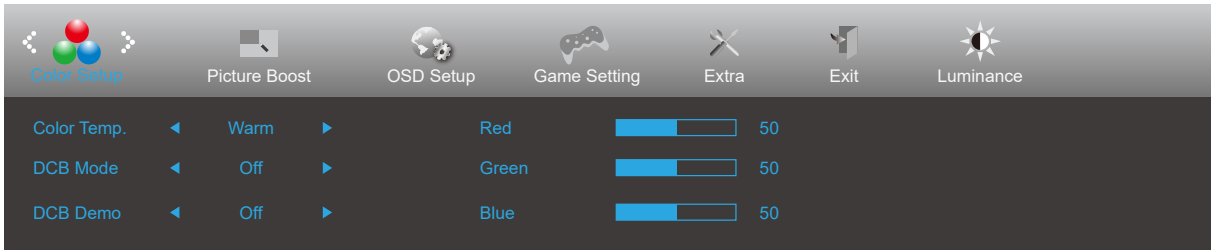
		Warm	Recall Warm Color Temperature from EEPROM.
		Normal	Recall Normal Color Temperature from EEPROM.
		Cool	Recall Cool Color Temperature from EEPROM.
	Color Temp.	sRGB	Recall SRGB Color Temperature from EEPROM.
			Red Gain from Digital-register.
		User	Green Gain Digital-register.
			Blue Gain from Digital-register.
		Off	Disable DCB Mode.
		Full Enhance	Enable Full Enhance Mode.
		Nature Skin	Enable Nature Skin Mode.
	DCB Mode	Green Field	Enable Green Field Mode.
		Sky-blue	Enable Sky-blue Mode.
		Auto Detect	Enable AutoDetect Mode.
	DCB Demo	On or Off	Disable or Enable Demo.
	Red	0-100	Red gain from Digital-register.
	Green	0-100	Green gain from Digital-register.
	Blue	0-100	Blue gain from Digital-register.

Note:

When "HDR Mode" under "Luminance" is set to a non-off state, all items under "Color Setup" cannot be adjusted.

Picture Boost

Picture Boost	OSD Setup	Game Setting	Extra	Exit	Luminance	Color Setup

| Bright Frame | ◄ off ► | Brightness | ▮▮▮▮ 50 | H. Position | 0 |
| Frame Size | ▮ 14 | Contrast | ▮▮▮▮ 50 | V. Position | 0 |
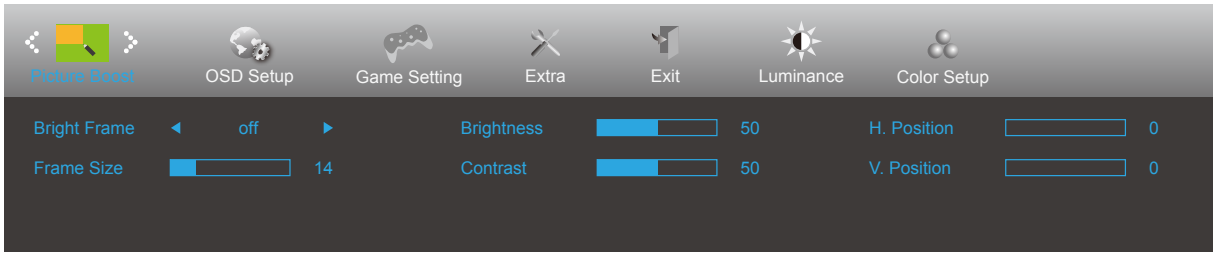
	Bright Frame	On or Off	Disable or Enable Bright Frame
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V. position	0-100	Adjust Frame vertical Position

Note:

1). For a better viewing experience, adjust the brightness, contrast, and position of the brightening.

2). When the "HDR Mode" under "Luminance" is set to a non-off state, all items under "Picture Boost" cannot be adjusted.

OSD Setup

OSD Setup	Game Setting	Extra	Exit	Luminance	Color Setup	Picture Boost

Language	◄ English ►	H. Position	50	Transparence	25
Timeout	10	V. Position	0	Break Reminder ◄ Off ►	
USB	◄ Off ►	MST	◄ Off ►		
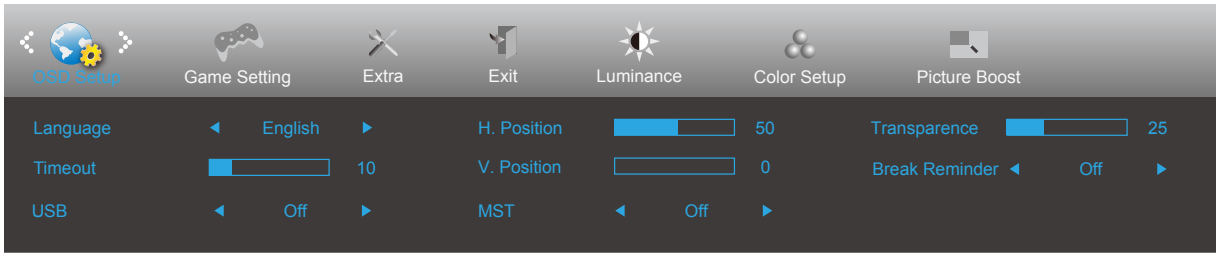
	Language		Select the OSD language
	Timeout	5-120	Adjust the OSD Timeout
	USB	Off /High-Res./ High-Speed	The default USB setting is Off. If you want to connect USB-C device, please adjust the USB setting to High Resolution or High Data Speed.
	H. Position	0-100	Adjust the horizontal position of OSD
	V. Position	0-100	Adjust the vertical position of OSD
	Transparence	0-100	Adjust the transparence of OSAD
	Break Reminder	On or Off	Break reminder if the user continuously works for more than 1hrs
	MST	On or Off	

Game Setting

		Off	No optimization by Game Mode
		FPS	For playing FPS (First Person Shooters) games. Improves black level in dark theme.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
	Game Mode	Racing	For playing Racing games, Provides fastest response time and high color saturation.
		Gamer 1	User's preference settings saved as Gamer 1.
		Gamer 2	User's preference settings saved as Gamer 2.
		Gamer 3	User's preference settings saved as Gamer 3.
	Shadow Control	0-100	Shadow Control Default is 50, then end-user can adjust from 50 to 100 or 0 to increase/decrease contrast for clear picture. 1. If picture is too dark to be saw the detail clearly, adjusting from 50 to100 for clear picture. 2. If picture is too white to be saw the detail clearly, adjusting from 50 to0 for clear picture
	Low Input Lag	On/Off	Turn off frame buffer to decrease input lag
	Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.
	Low Blue Mode	Off/Reading/Office/ Internet/Multimedia	Decrease blue light wave by controlling color temperature.
	Overdrive	Off	Adjust the response time.
		Weak	
		Medium	
		Strong	
	Adaptive-Sync	On/Off	Disable or Enable Adaptive-Sync. Adaptive-Sync Run Reminder: When the Adaptive-Sync feature is enabled, there may be flashing in some game environments.
	Frame Counter	Off / Right-up / Right-Down / Left-Down / Left-Up	Display V frequency on the corner selected
	Dial Point	On/Off	The "Dial Point" function places an aiming indicator in the center of screen for helping gamers to play First Person Shooter (FPS) games with an accurate and precise aiming.

Note:

When the "HDR Mode" under "Luminance" is set to a non-off state, the "Game Mode", "Shadow Control", and "Game Color" items under "Game Setting" cannot be adjusted.

Extra
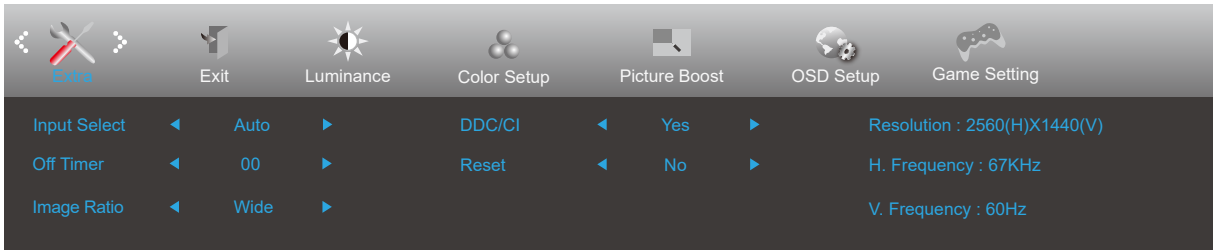
	Input Select	Auto/HDMI1/HDMI2/DP/ USB C	Select Input Signal Source
	Off Timer	0-24hrs	Select DC off time
	Image Ratio	Wide	Select image ratio for display.
		4:3	
		1:1	
		Movie 1	
		Movie 2	
	DDC/CI	Yes or No	Turn On/Off DDC/CI Support
	Reset	Yes or No	Reset the menu to default
		ENERGY STAR® or No	ENERGY STAR® available for selective models

Exit

	Luminance	Color Setup	Picture Boost	OSD Setup	Game Setting	Extra
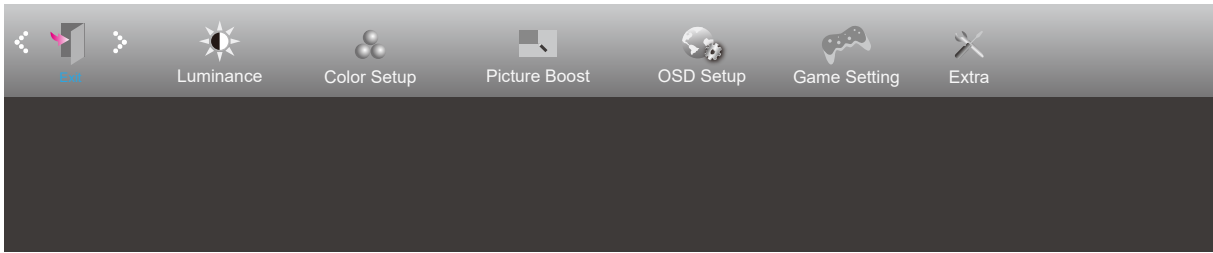
	Exit		Exit the main OSD

LED Indicator

Status	LED Color
Full Power Mode	White
Active-off Mode	Orange

Troubleshoot

| Problem & Question	Possible Solutions
Power LED Is Not ON	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.

No image on the screen	• Is the power cord connected properly?
	  Check the power cord connection and power supply.
	• Is the cable connected correctly?
	  (Connected using the VGA cable)
	  Check the VGA cable connection.
	  (Connected using the HDMI cable)
	  Check the HDMI cable connection.
	  (Connected using the DP cable)
	  Check the DP cable connection.
	  * VGA/HDMI/DP input is not available on every model.
	• If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.
	  If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows 7/8/10) and then change the frequency of the video card.
	  (Refer to the Setting the Optimal Resolution)
	  If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.
	• Can you see "Input Not Supported" on the screen?
	  You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.
	  Adjust the maximum resolution and frequency that the monitor can handle properly.
	• Make sure the AOC Monitor Drivers are installed.

Picture Is Fuzzy & Has Ghosting Shadowing Problem	Adjust the Contrast and Brightness Controls. Press hot-key (AUTO) to auto-adjust. (Available for selective models) Make sure you are not using an extension cable or switch box. We recommend plugging the monitor directly to the video card output connector on the back.
Picture Bounces, Flickers Or Wave Pattern Appears In The Picture	Move electrical devices that may cause electrical interference as far away from the monitor as possible. Use the maximum refresh rate your monitor is capable of at the resolution you are using.
Monitor Is Stuck In Active Off-Mode"	The Computer Power Switch should be in the ON position. The Computer Video Card should be snugly fitted in its slot. Make sure the monitor's video cable is properly connected to the computer. Inspect the monitor's video cable and make sure no pin is bent. Make sure your computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.
Missing one of the primary colors (RED, GREEN, or BLUE)	Inspect the monitor's video cable and make sure that no pin is damaged. Make sure the monitor's video cable is properly connected to the computer.
Screen image is not centered or sized properly	Adjust H-Position and V-Position or press hot-key (AUTO).
Picture has color defects (white does not look white)	Adjust RGB color or select desired color temperature.
Horizontal or vertical disturbances on the screen	Use Windows 7/8/10/11 shut-down mode to adjust CLOCK and FOCUS. Press hot-key (AUTO) to auto-adjust. (Available for selective models)
Regulation & Service	Please refer to Regulation & Service Information which is in the CD manual or www.aoc.com (to find the model you purchase in your country and to find Regulation & Service Information in Support page.

Specification

General Specification

Panel	Model Name	Q27P3CV	
	Driving System	TFT Color LCD	
	Viewable Image Size	68.5 cm Diagonal(27" Wide Screen)	
	Pixel Pitch	0.2331mm(H) x 0.2331mm(V)	
Others	Horizontal Scan Range	30k-114kHz	
	Horizontal scan Size(Maximum)	596.736 mm	
	Vertical Scan Range	48-75Hz	
	Vertical Scan Size(Maximum)	335.664mm	
	Max resolution	2560x1440@75Hz	
	Plug & Play	VESA DDC2B/CI	
	Power Source	100-240V~, 50/60Hz, 1.5A	
	Power Consumption	Typical(Default Brightness And Contrast)	23W
		Max. (Brightness = 100, Contrast =100)	≤152W
		Standby Mode	⩽ 0.5W
USB C	USB-C	Double-sided Connectable Plug	
	Ultra-Highspeed	Data And Video Transmission	
	DP	Built-in DP Alt Mode	
	Power Supply	USB PD Version 3.0	
	Maximum Power Supply	Up to 65W (5V/3A,7V/3A,9V/3A,10V/3A, 12V/3A,15V/3A, 20V/3.25A)	
Physical Characteristics	Input Connector	HDMIx2/DP IN/DP OUT/USB C/Earphone/RJ45 Input/ USB3.2 Gen1x4(Includes 1 Fast Charger)	
	RJ45	Ethernet LAN (10M/100M/1000M)	
	Signal Cable Type	Detachable	
Environmental	Temperature	Operating	0°C~ 40°C
		Non-Operating	-25°C~ 55°C
	Humidity	Operating	10% ~ 85% (Non-Condensing)
		Non-Operating	5% ~ 93% (Non-Condensing)
	Altitude	Operating	0m~5000m(0ft~16404ft)
		Non-Operating	0m~12192m(0ft~40000ft)

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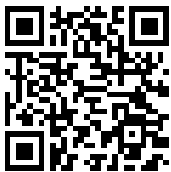
Preset Display Modes

| STANDARD	RESOLUTION(+/-1Hz)	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)
VGA	640x480@60Hz	31.469	59.94
	640x480@72Hz	37.861	72.809
	640x480@75Hz	37.5	75
SVGA	800x600@56Hz	35.156	56.25
	800x600@60Hz	37.879	60.317
	800x600@72Hz	48.077	72.188
	800x600@75Hz	46.875	75
XGA	1024x768@60Hz	48.363	60.004
	1024x768@70Hz	56.476	70.069
	1024x768@75Hz	60.023	75.029
SXGA	1280x1024@60Hz	63.981	60.02
	1280x1024@75Hz	79.976	75.025
	1280 x 720@60Hz	44.77	59.86
	1280 x 960@60Hz	60	60
WXGA+	1440x900@60Hz	55.935	59.887
	1440x900@60Hz	55.469	59.901
WSXGA	1680x1050@60Hz	65.29	59.954
	1680x1050@60Hz	64.674	59.883
FHD	1920x1080@60Hz	67.5	60
	1920x1080@75Hz	83.89	74.97
QHD	2560x1440@60Hz	88.787	59.951
	2560x1440@75Hz	111.028	74.968
IBM MODES			
DOS	720x400@70Hz	31.469	70.087
MAC MODES			
VGA	640x480@67Hz	35	66.667
SVGA	832x624@75Hz	49.725	74.551
XGA	1024x768@75Hz	60.241	74.927

Note: According to the VESA standard, there may be a certain error (+/-1Hz) when calculating the refresh rate (field frequency) of different operating systems and graphics cards. In order to improve compatibility, the nominal refresh rate of this product has been rounded off. Please refer to the actual product.

Pin Assignments

19-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1.	TMDS Data 2+	9.	TMDS Data 0-	17.	DDC/CEC Ground
2.	TMDS Data 2 Shield	10.	TMDS Clock +	18.	+5V Power
3.	TMDS Data 2-	11.	TMDS Clock Shield	19.	Hot Plug Detect
4.	TMDS Data 1+	12.	TMDS Clock-		
5.	TMDS Data 1Shield	13.	CEC		
6.	TMDS Data 1-	14.	Reserved (N.C. on device)		
7.	TMDS Data 0+	15.	SCL		
8.	TMDS Data 0 Shield	16.	SDA		
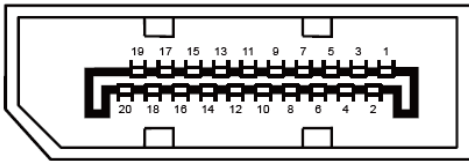
20-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name
1	ML_Lane 3 (n)	11	GND
2	GND	12	ML_Lane 0 (p)
3	ML_Lane 3 (p)	13	CONFIG1
4	ML_Lane 2 (n)	14	CONFIG2
5	GND	15	AUX_CH(p)
6	ML_Lane 2 (p)	16	GND
7	ML_Lane 1 (n)	17	AUX_CH(n)
8	GND	18	Hot Plug Detect
9	ML_Lane 1 (p)	19	Return DP_PWR
10	ML_Lane 0 (n)	20	DP_PWR

Plug and Play

Plug & Play DDC2B Feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I2C protocol. The host can request EDID information over the DDC2B channel.