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AOC U32P2 32-Inch 75 Hz UHD Monitor User Manual

Contents

AOC®

AOC U32P2 32-Inch 75 Hz UHD Monitor

Safety

National Conventions
The following subsections describe the notational 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 a 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 and 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 that 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
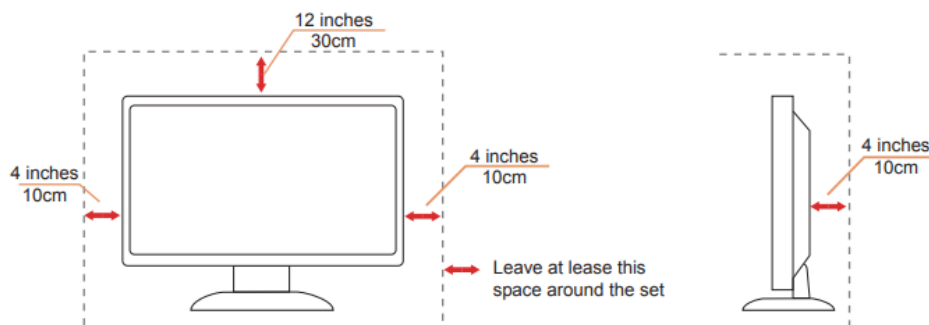
Cleaning

- Clean the cabinet regularly with a cloth. You can use soft detergent to wipe out the stain, instead of strong detergent which will cauterize the product cabinet.
- When cleaning, make sure no detergent is leaked into the product. The cleaning cloth should not be too rough as it will scratch the screen surface.
- 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, 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.
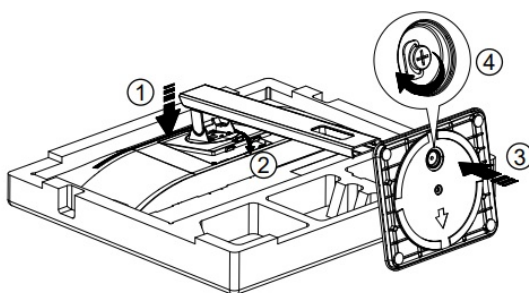
Setup

Contents in Box
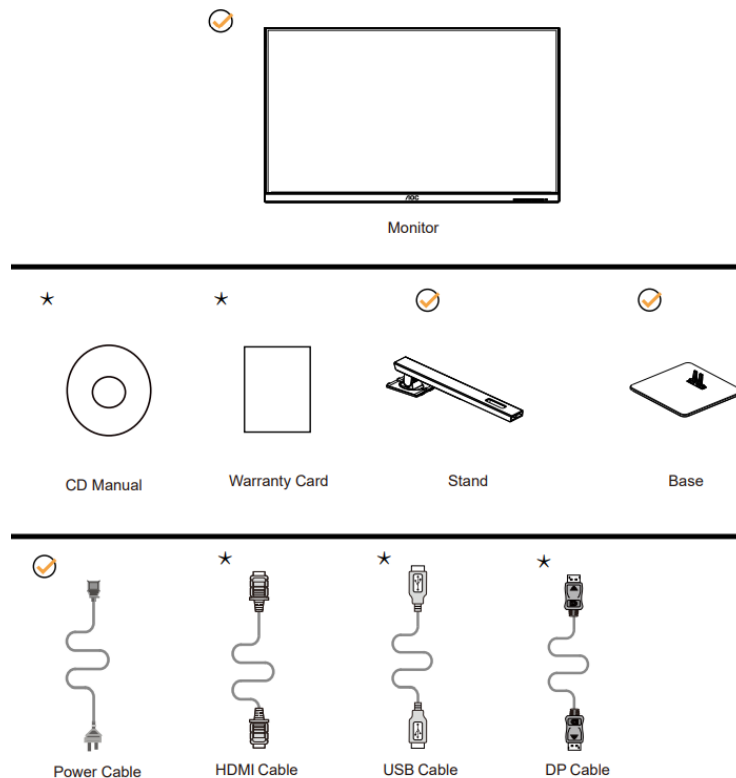
Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.
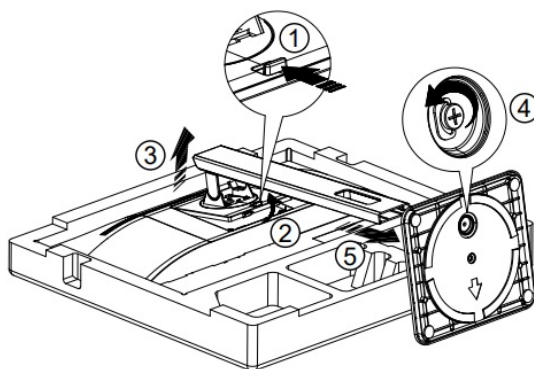
Setup Stand & Base

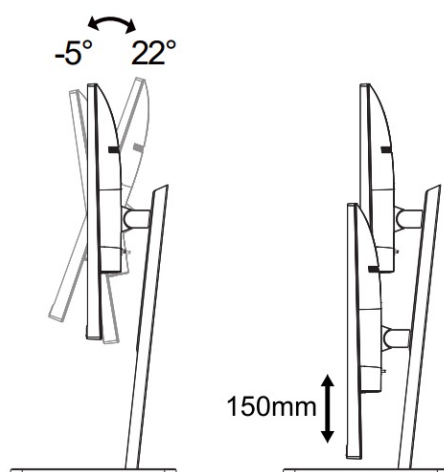Please set up or remove the base by following the steps below.

Setup:

Remove:

Adjusting Viewing Angle

For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own 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. It may cause damage or break the LCD screen.
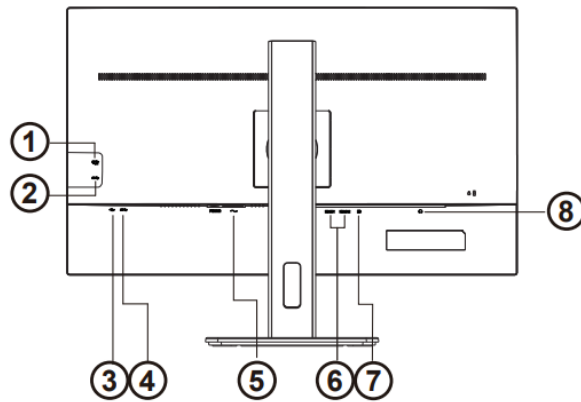
WARNING:

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 and Computer:

1. USB3.2 Gen1+charging
2. USB3.2 Gen1
3. USB-PC(USB upstream)
4. USB3.2 Gen1
5. Power
6. HDMI x 2
7. DP
8. Earphone

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

Wall Mounting

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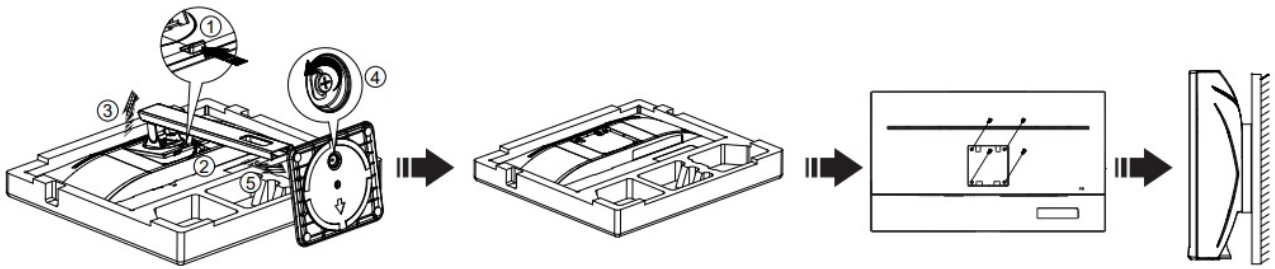
This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this procedure. Follow these steps:

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.

   Noted: VESA mounting screw holes are not available for all models, please check with the dealer or official department of AOC.
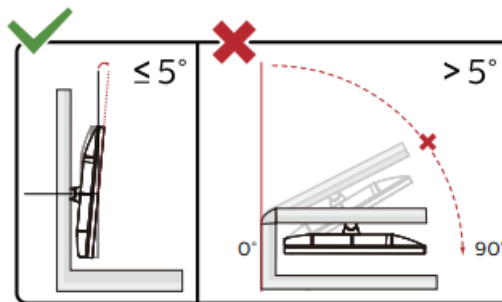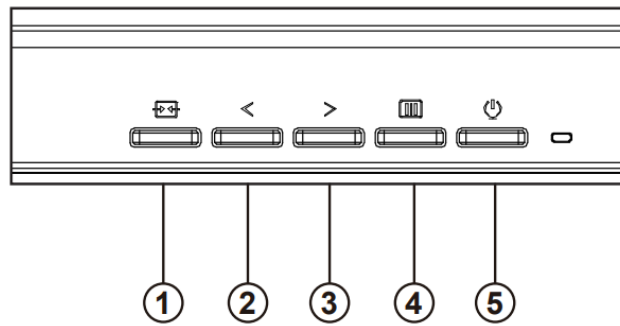

* Display design may differ from those illustrated.

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.

Adjusting

Hotkeys

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

Power
Press the power key to turn on/off the monitor.

Menu/Select
Activate the OSD menu or function adjustment confirmation.

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 switching/exit
When the OSD menu is off, press this key to activate the signal source switching function, press this key continuously to select the signal source displayed in the information bar, and press the menu key to adjust to the selected signal source. When the OSD menu is active, this button acts as an exit key (to exit the OSD menu)

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. The default setting is always "off".
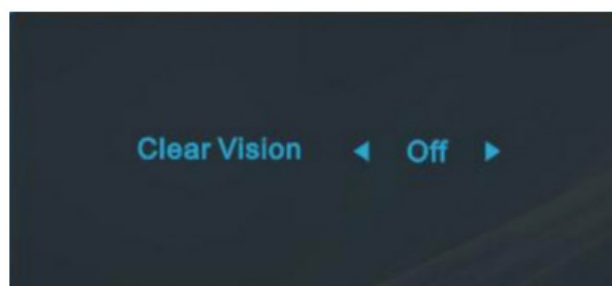
3. Press and hold the "<" button for 5 seconds to activate the Clear Vision Demo, and a message of "Clear Vision Demo: on" will be displayed on the screen for a duration of 5 seconds. Press Menu or Exit button, the message will disappear. Press and hold "<" button for 5 seconds again, Clear Vision Demo will be off.
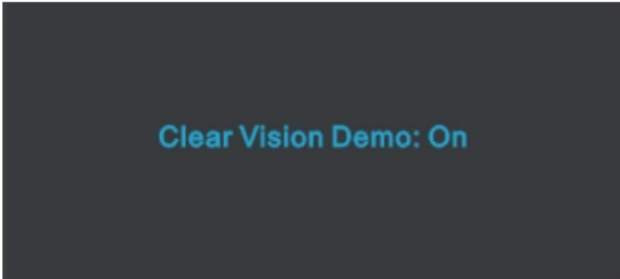
Clear Vision function provides the best image viewing experience by converting low-resolution and blurry images into clear and vivid images.

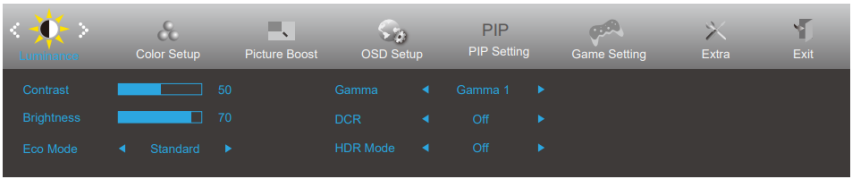|	Off	
Clear Vision	Weak	Adjust the Clear Vision
	Medium	
	Strong	
Clear Vision Demo	On or Off	Disable or Enable the Demo

OSD Setting

Basic and simple instructions on the control keys.

1. Press the MENU button to activate the OSD window.
2. Press < or > to navigate through the functions. Once the desired function is highlighted, press the MENU button to activate it, and press < or > to navigate through the sub-menu functions. Once the desired function is highlighted, press the MENU button to activate it.
3. Press < or > to change the settings of the selected function. Press the AUTO–button 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 MENU button while the monitor is off and then press the power button to turn the monitor on. To un-lock the OSD – press and hold the MENU button while the monitor is off and then press the power button to turn the monitor on.

Notes:

1. If the product has only one signal input, the item of "Input Select" is disabled to adjust.
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. The four states of ECO mode (except standard mode), DCR, DCB mode, and window highlight can only display one state at a time.

Luminance
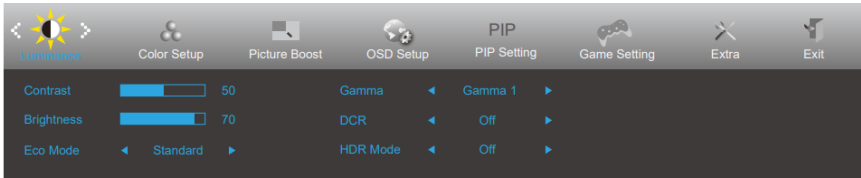
	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment
		Standard	✓	Standard Mode
		Text	T	Text Mode
		Internet	e	Internet Mode
	Eco mode	Game		Game Mode
		Movie		Movie Mode
		Sports		Sports Mode
		Reading	R	Reading Mode
		Uniformity		Uniformity Mode
		Gamma1		Adjust to Gamma 1
	Gamma	Gamma2		Adjust to Gamma 2
		Gamma3		Adjust to Gamma 3
	DCR	Off		Disable dynamic contrast ratio
		On	DCR	Enable dynamic contrast ratio
		Off		
	HDR Mode	HDR Picture		Adjust HDR Mode.
		HDR Movie		
		HDR Game		

Note: When "HDR Mode" is set to a non-off state, "Contrast", "Brightness Scene Mode", and "Gamma" items cannot be adjusted.
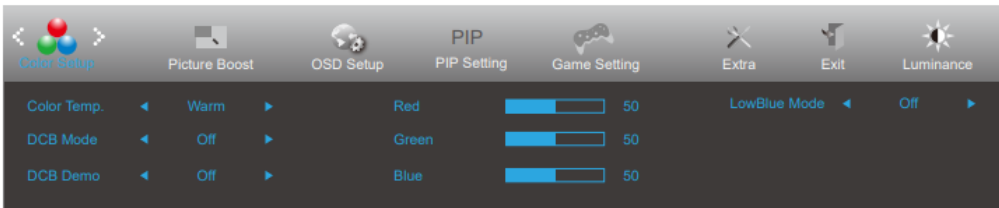
Color Setup

		Warm	Recall Warm Color Temperature from EEPROM.
	Color Temp.	Normal	Recall Normal Color Temperature from EEPROM.
		Cool	Recall Cool Color Temperature from EEPROM.
		sRGB	Recall SRGB Color Temperature from EEPROM.
			Red Gain from Digital-register.
		User	Green Gain Digital register.
			Blue Gain from Digital-register.
	DCB Mode	Off	Disable DCB Mode.
		Full Enhance	Enable Full Enhance Mode.
		Nature Skin	Enable Nature Skin 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.
	Low Blue Mode	Off	
		Reading	
		Office	
		Internet	Decrease blue light waves by controlling color temperature.
		Multimedia	

Note: When "HDR Mode" under "Brightness" is set to a non-off state, all items under "Color Settings" cannot be adjusted.

Picture Boost
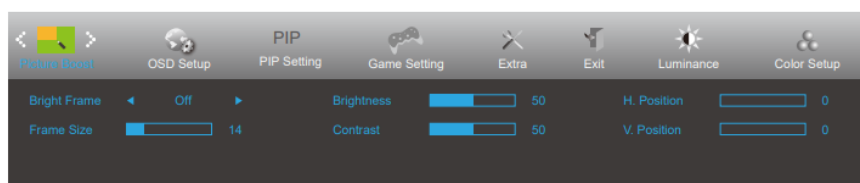
	Bright Frame	On or Off	Disable or Enable Bright Frame
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V. position	0-100	Adjust Frame Vertical Position

Note:

1. For a better viewing experience, adjust the brightness, contrast, and position of the brightening.
2. When the „HDR Mode" under „Brightness" is set to a non-off state, all items under „Window Brightening" cannot be adjusted.

OSD Setup
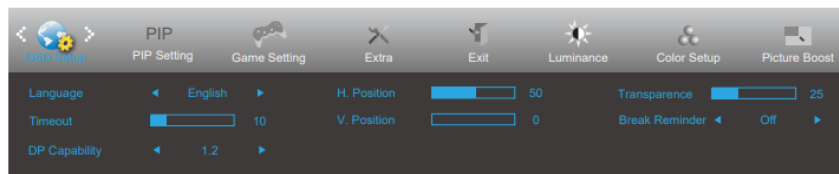
	Language		Select the OSD language
	Timeout	5-120	Adjust the OSD Timeout
	DP Capability	1.1/1.2	If the DP video content supports DP1.2, please select DP1.2 for DP Capability; otherwise, please select DP1.1
	H. Position	0-100	Adjust the horizontal position of OSD
	V. Position	0-100	Adjust the vertical position of OSD
	Transparency	0-100	Adjust the transparency of OSD
	Break Reminder	On or Off	Break reminder if the user continuously works for more than 1hrs

PIP Setting
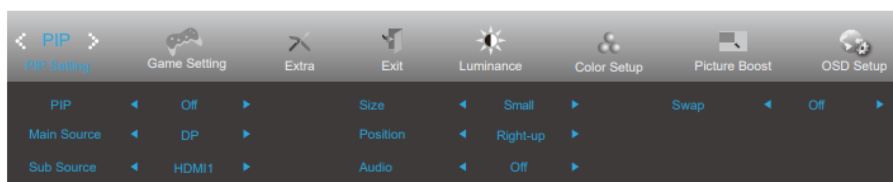
	PIP Setting	Off / PIP / PBP	Disable or Enable PIP or PBP.
	Main Source	HDMI1 HDMI2 DP	Select the main screen source.
	Sub Source	HDMI1 HDMI2 DP	Select sub-screen source.
	Size	Small / Middle / Large	Select screen size.
	Position	Right-up	Set the screen location.
		Right-down	
		Left-up	
		Left-down	
	Audio	On: PIP Audio	Disable or Enable Audio Setup.
		Off: Main Audio	
	Swap	On: Swap	Swap the screen source.
		Off: non-action	

Game Setting
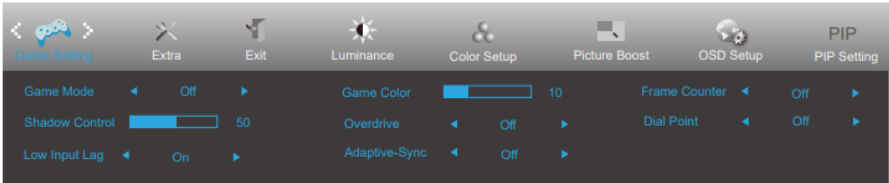
		Off	No optimization by the Smart image game
	Game Mode	FPS	For playing FPS (First Person Shooters) games. Improves dark theme black-level details.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
		Racing	For playing Racing games, Provides the fastest response time and high color saturation.
		Gamer 1	The user's preference settings are saved as Gamer 1.
		Gamer 2	The user's preference settings are saved as Gamer 2.
		Gamer 3	The user's preference settings are saved as Gamer 3.

Shadow Control	0-100		Shadow Control Default is 50, then the end-user can adjust from 50 to 100 or 0 to increase contrast for a clear picture. 1.　If a picture is too dark to see the detail clearly, adjust from 50 to 100 for a clear picture. 2.　If the picture is too white to be saw the detail clearly, adjust from 50 to0 for a clear picture
Low Input Lag	On/Off		Turn off the frame buffer to decrease input lag
Game Color	0-20		Game Color will provide a 0-20 level for adjusting saturation to get a better picture.
Overdrive	Off		Adjust the response time.
	Weak		
	Medium		
	Strong		
Adaptive-Sync	On/Off		Adjust the Adaptive Sync.
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 the screen for helping gamers to play First Person Shooter (FPS) games with accurate and precise aiming.

Note: When the "HDR Mode" under "Brightness" is set to a non-off state, the "Game Mode", "Dark Field Control", and "Game Tone" items under "Game Settings" cannot be adjusted.

Extra
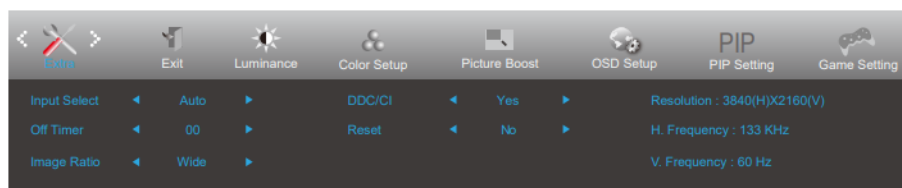
	Input Select	Auto/HDMI1/HDMI2/DP	Select Input Signal Source
	Off Timer	0-24hrs	Select DC off time
	Image Ratio	Wide	Select image ratio for display.
		4:3	
		1:1	
		Movie1	
		Movie2	
	DDC/CI	Yes or No	Turn On/Off DDC/CI Support
	Reset	ENERGY STAR® or No	Reset the menu to default (ENERGY STAR® available for selective models)

Exit
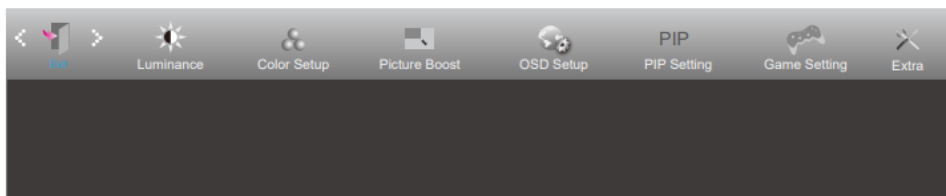
	Exit		Exit the main OSD

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 images 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 to auto adjust. 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 shut-down mode to adjust CLOCK and FOCUS. Press to auto-adjust.
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	U32P2	
	Driving system	TFT Color LCD	
	Viewable Image Size	80 cm diagonal	
	Pixel pitch	0.1816mm(H) x 0.1816mm(V)	
Others	Horizontal scan range	30k-140kHz	
	Horizontal scan Size(Maximum)	697.306mm	
	Vertical scan range	40-60Hz	
	Vertical Scan Size(Maximum)	392.234mm	
	Max resolution	3840×2160@60Hz (HDMI,DP)	
	Plug & Play	VESA DDC2B/CI	
	Power Source	100-240V~, 50/60Hz, 1.5A	
	Power Consumption	Typical(default brightness and contrast)	52W
		Max. (brightness = 100, contrast =100)	≤ 110W
		Standby mode	≤ 0.5W
Physical Characteristics	Connector Type	HDMI×2 DP USB×3 USB upstream Earphone	
	Signal Cable Type	Detachable	
Environmental	Temperature	Operating	0°~ 40°
		Non-Operating	-25°~ 55°
	Humidity	Operating	10% ~ 85% (non-condensing)
		Non-Operating	5% ~ 93% (non-condensing)
	Altitude	Operating	0~ 5000 m (0~ 16404ft)
		Non-Operating	0~ 12192m (0~ 40000ft)

Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)
VGA	640×480@60Hz	31.469	59.94
	640×480@72Hz	37.861	72.809
	640×480@75Hz	37.5	75
SVGA	800×600@56Hz	35.156	56.25
	800×600@60Hz	37.879	60.317
	800×600@72Hz	48.077	72.188
	800×600@75Hz	46.875	75
XGA	1024×768@60Hz	48.363	60.004
	1024×768@70Hz	56.476	70.069
	1024×768@75Hz	60.023	75.029
SXGA	1280×1024@60Hz	63.981	60.02
	1280×1024@75Hz	79.976	75.025
WXGA+	1440×900@60Hz	55.935	59.887
	1440×900@60Hz	55.469	59.901
WSXGA	1680×1050@60Hz	65.29	59.954
	1680×1050@60Hz	64.674	59.883
FHD	1920×1080@60Hz	67.5	60
QHD	2560×1440@60Hz	88.787	59.951
***	1920×2160@60Hz	133.293	59.988
UHD	3840×2160@30Hz	67.5	30
	3840×2160@50Hz	112.5	50
	3840×2160@60Hz	133	60
IBM MODES			
DOS	720×400@70Hz	31.469	70.087
MAC MODES			
VGA	640×480@67Hz	35	66.667
SVGA	832×624@75Hz	49.725	74.551
XGA	1024×768@75Hz	60.241	74.927

Pin Assignments
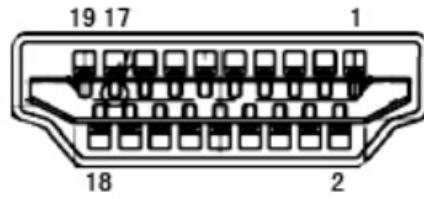
19-Pin Color Display Signal Cable

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		
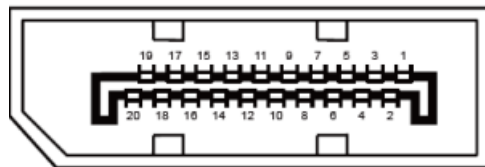
20-Pin Color Display Signal Cable

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.

FAQ's

What is the resolution of the AOC U32P2 monitor?

The AOC U32P2 monitor has a UHD (Ultra High Definition) resolution of 3840 x 2160 pixels, also known as 4K resolution.

What is the screen size of the AOC U32P2 monitor?

The AOC U32P2 monitor has a 32-inch display size, providing a spacious viewing area for productivity or multimedia consumption.

Does the AOC U32P2 monitor support HDR (High Dynamic Range)?

Yes, the AOC U32P2 monitor supports HDR technology, which enhances contrast and color accuracy for a more vibrant and lifelike visual experience.

What is the refresh rate of the AOC U32P2 monitor?

The AOC U32P2 monitor has a 75 Hz refresh rate, allowing for smoother motion and reduced screen tearing during fast-paced activities such as gaming or video playback.

Does the AOC U32P2 monitor have built-in speakers?

Yes, the AOC U32P2 monitor features built-in speakers, providing audio output without the need for external speakers.

What connectivity options are available on the AOC U32P2 monitor?

The AOC U32P2 monitor offers a variety of connectivity options, including HDMI, DisplayPort, USB ports, and audio in/out ports, enabling you to connect various devices and peripherals.

Does the AOC U32P2 monitor have an adjustable stand for ergonomic positioning?

Yes, the AOC U32P2 monitor comes with an adjustable stand that allows you to tilt, swivel, pivot, and adjust the height of the monitor for optimal viewing comfort.

Is the AOC U32P2 monitor VESA mount compatible?

Yes, the AOC U32P2 monitor is VESA mount compatible, allowing you to mount it on a compatible monitor arm or wall mount for space-saving and flexible placement.

Can I split the screen or use picture-in-picture (PiP) functionality on the AOC U32P2 monitor?

Yes, the AOC U32P2 monitor supports screen splitting and picture-in-picture functionality, enabling you to view content from multiple sources simultaneously.

Does the AOC U32P2 monitor have an adjustable blue light filter or low blue light mode?

Yes, the AOC U32P2 monitor features a low blue light mode that reduces the amount of blue light emitted, helping to reduce eye strain during extended viewing periods.

Can I adjust color settings or customize the display on the AOC U32P2 monitor?

Yes, the AOC U32P2 monitor offers various color adjustments and customization options through its on-screen display (OSD) menu, allowing you to fine-tune the display settings to your preference.

Is the AOC U32P2 monitor compatible with AMD FreeSync or NVIDIA G-Sync?

Yes, the AOC U32P2 monitor is compatible with AMD FreeSync technology, which helps to reduce screen tearing and stuttering during gaming when used with a compatible graphics card.

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