AOC GAMING

LCD Monitor User Manual

U32G3X

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.

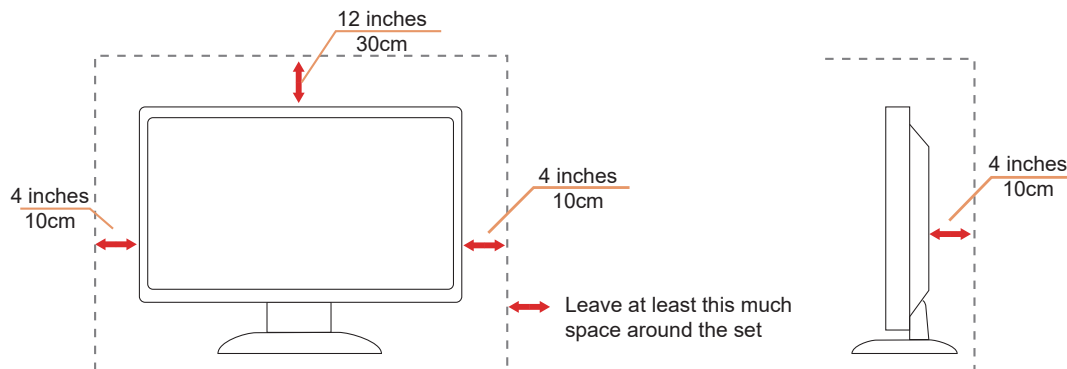⚠️ Do not place the front of the product on the floor.

⚠️ 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

12 inches
30cm

4 inches
10cm

4 inches
10cm

4 inches
10cm

Leave at least this much
space around the set

Cleaning

⚠️ Clean the cabinet regularly with 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.

Setup

Contents in Box
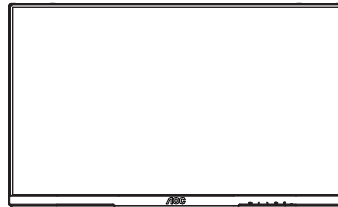
Monitor

Quick Start Guide

Warranty card
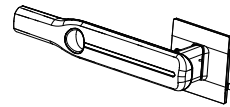
Stand
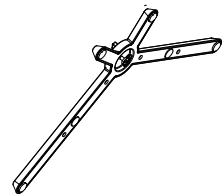
Base

Power Cable

HDMI Cable

DP 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:
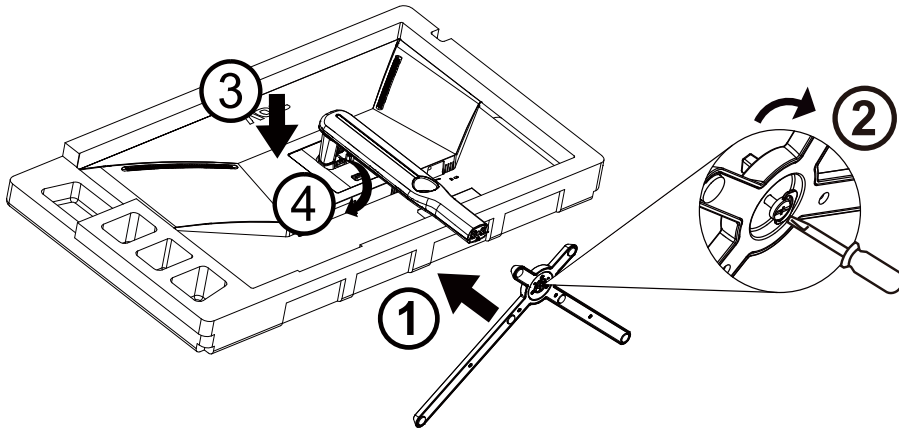
Remove:
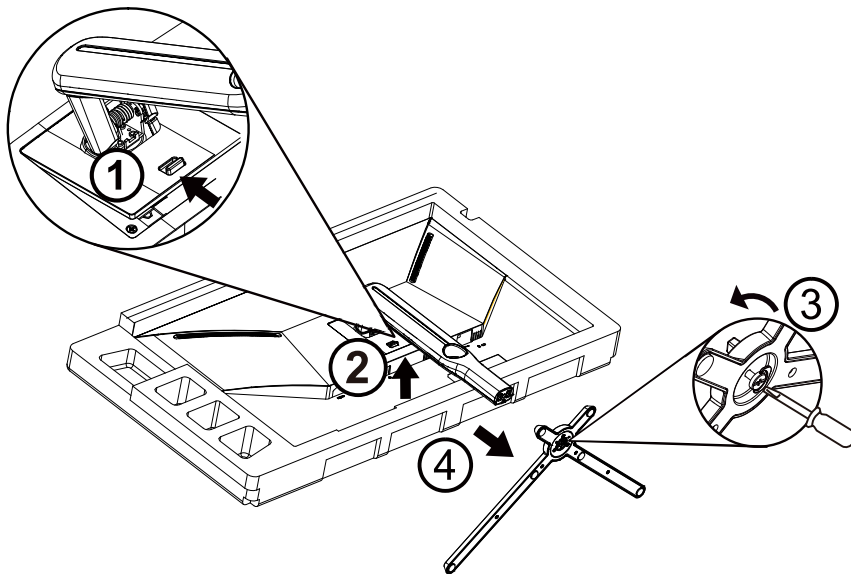
Adjusting Viewing Angle

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:

-5° 23°

130mm

30°   30°
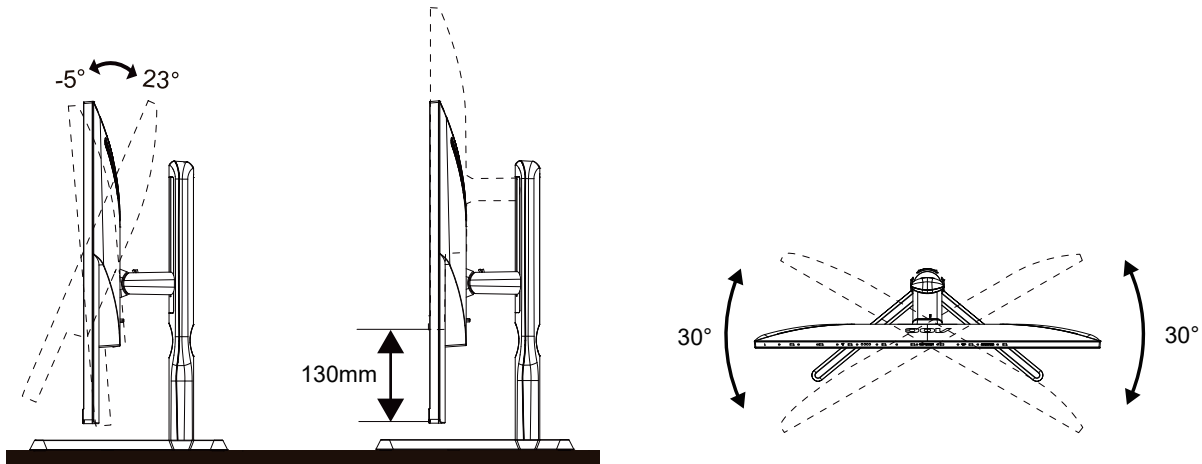
📝 **NOTE:**

Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.

⚠ Warning
- To avoid potential screen damage, such as panel peeling, ensure that the monitor does not tilt downward by more than -5 degrees.
- 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:
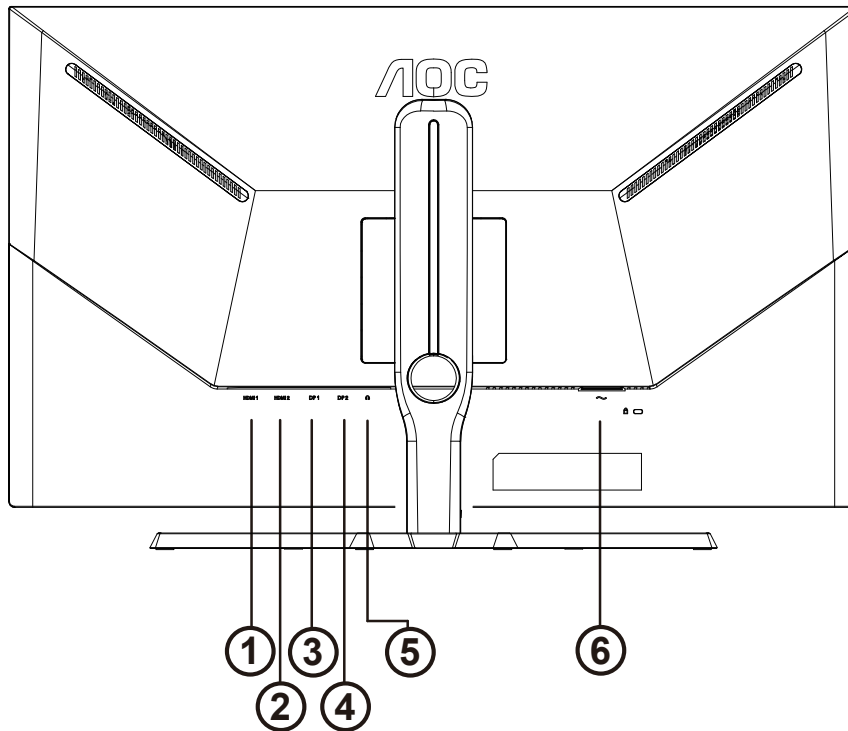
1. HDMI 1
2. HDMI 2
3. DP 1
4. DP 2
5. Earphone
6. Power

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 Troubleshoot.

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

Wall Mounting

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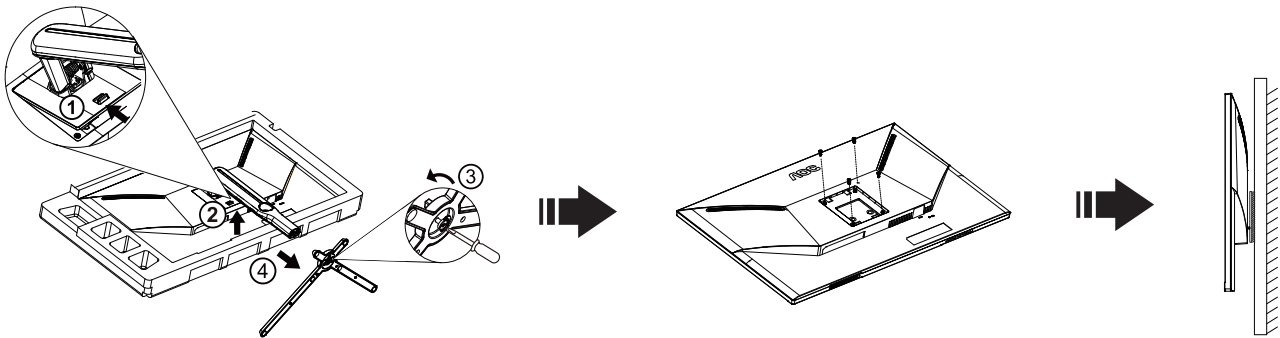
This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this procedure. Follow these steps:

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. 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.
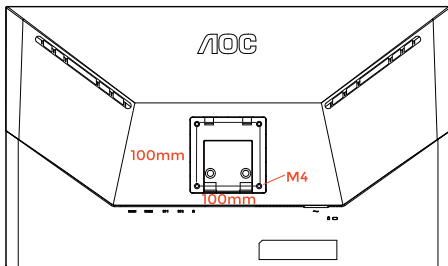
Specification of wall hanger screws: M4*(10+X)mm (X=Thickness of Wall mount bracket)
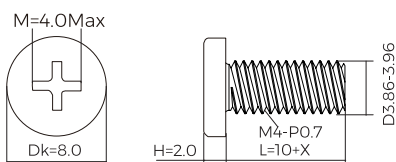
Noted: VESA mounting screw holes are not available for all models, please check with the dealer or official department of AOC. Always contact manufacturer for wall-mount installation.
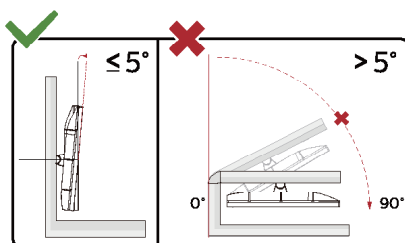
* Display design may differ from those illustrated.

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.

G-SYNC Compatible function

1. G-SYNC Compatible function is works with DP.
2. To enjoy the perfect gaming experience with G-SYNC, you need to purchase a Separate NVIDIA GPU card that supports G-SYNC.

G-sync system requirements

Desktop computer connected to G-SYNC monitor:

Graphics cards supported: G-SYNC features require NVIDIA GeForce® GTX 650 Ti BOOST or higher graphics cards.

Driver: R340.52 or later

Operating system:

Windows 10

Windows 8.1

Windows 7

System requirements: DisplayPort 1.2 of the GPU must be supported.

Notebook computer connected to G-SYNC monitor:

Supported graphics cards: NVIDIA GeForce® GTX 980M, GTX 970M, GTX 965M GPU or higher graphics cards

Driver: R340.52 or higher

Operating system:

Windows 10

Windows 8.1

Windows 7

System requirements: DisplayPort 1.2 driven directly from the GPU must be supported.

For more information about NVIDIA G-SYNC, please visit: https://www.nvidia.cn/

Adaptive-Sync function

1. Adaptive-Sync function is works with DP/HDMI.
2. Compatible Graphics Card: Recommend 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

HDR

It is compatible with input signals in HDR10 format.

The display may automatically activate the HDR function if the player and content are compatible. Please contact the device manufacturer and the content provider for information on the compatibility of your device and content. Please select "OFF" for the HDR function when you have no need for automatical activation function.

Note:

1. No special setting is needed for the DisplayPort/HDMI interface in WIN10 versions lower (older) than V1703.
2. Only the HDMI interface is available and the DisplayPort interface cannot function in WIN10 version V1703.
3. 3840x2160@50Hz/60Hz only suggest for Blu-ray Player, Xbox and PlayStation.
a. The display resolution is set to 3840*2160, and HDR is preset to ON.
b. After entering an application, the best HDR effect can be achieved when the resolution is changed to 3840*2160 (if available).
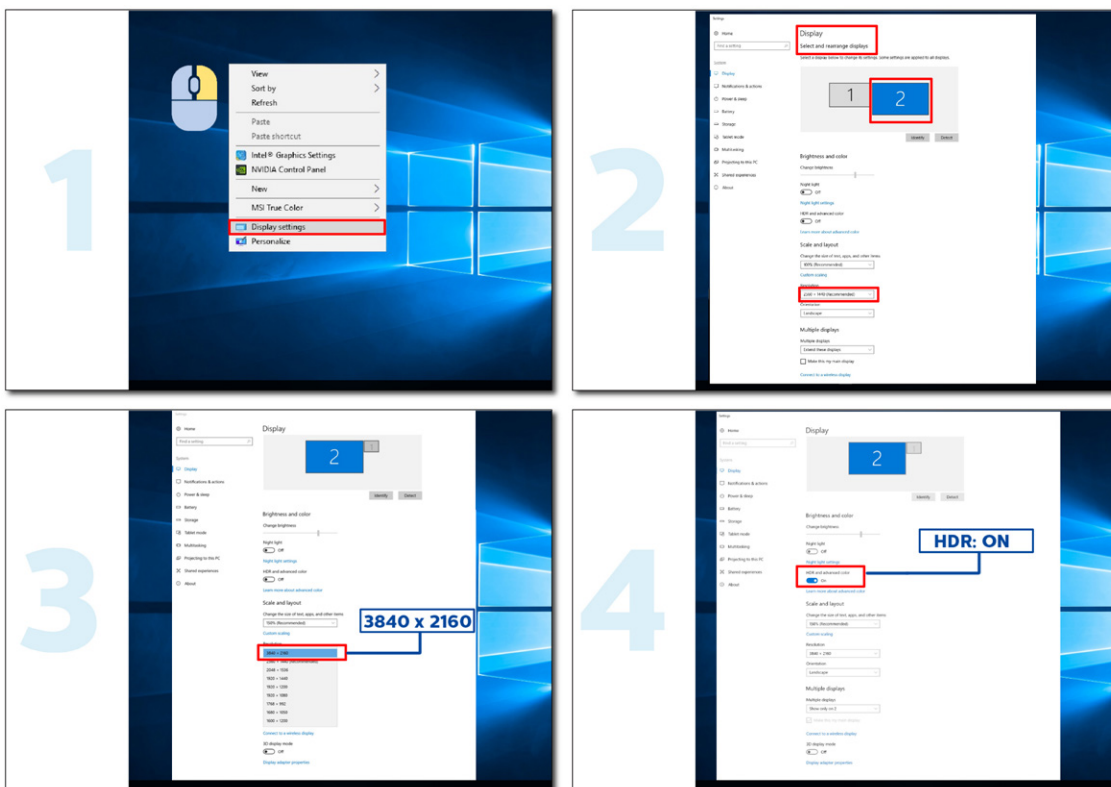
Adjusting

Hotkeys
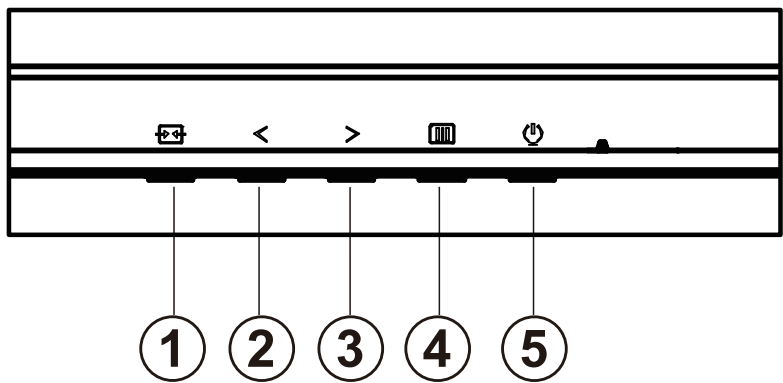
1	Source/Exit
2	Game Mode
3	Dial Point
4	Menu/Enter
5	Power

Menu/Enter

Press to display the OSD or confirm the selection.

Power

Press the Power button to turn on the monitor.

Dial Point

When there is no OSD, press Dial Point button to show / hide Dial Point.

Game Mode

When there is no OSD, press "$<$" key to open game mode function, then press "$<$" or "$>$" key to select game mode (FPS, RTS, Racing, Gamer 1, Gamer 2 or Gamer 3) basing on the different game types.

Source/Exit

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

OSD Setting

Basic and simple instruction on the control keys.

Luminance	Color Setup	Picture Boost	OSD Setup	PIP PIP Setting	Game Setting	Extra	Exit

Contrast	50	Gamma	◄ Gamma 1 ►
Brightness	70	DCR	◄ Off ►
Eco Mode	◄ Standard ►	HDR Mode	◄ Off ►
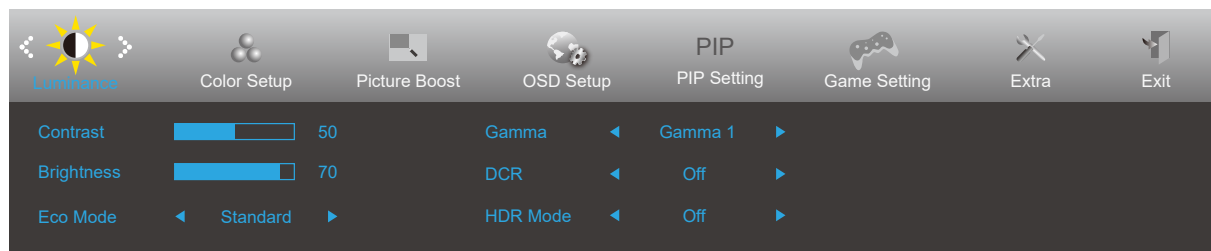
1). Press the ⚏ **Menu-button** to activate the OSD window.

2). Press ‹ **Left** or › **Right** to navigate through the functions. Once the desired function is highlighted, press the ⚏ **Menu-button** to activate it, press ‹ **Left** or › **Right** to navigate through the sub-menu functions. Once the desired function is highlighted, press ⚏ **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 ⚏ 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 ⚏ 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). ECO modes (except Standard mode), DCR, DCB mode and Picture Boost, for these four states that only one state can exist.

Luminance

	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment.
	Eco Mode	Standard		Standard Mode.
		Text		Text Mode.
		Internet		Internet Mode.
		Game		Game Mode.
		Movie		Movie Mode.
		Sports		Sports Mode.
		Reading		Reading Mode.
		Uniformity		Uniformity Mode.
	Gamma	Gamma1		Adjust to Gamma 1.
		Gamma2		Adjust to Gamma 2.
		Gamma3		Adjust to Gamma 3.
	DCR	Off		Disable dynamic contrast ratio.
		On		Enable dynamic contrast ratio.
	HDR	Off		Set the HDR profile according to your usage requirements. Note: When HDR is detected, the HDR option is displayed for adjustment.
		DisplayHDR		
		HDR Picture		
		HDR Movie		
		HDR Game		
	HDR Mode	Off		Optimized for the color and contrast of the picture, which will simulate showing the HDR effect. Note: When HDR is not detected, the HDR Mode option is displayed for adjustment.
		HDR Picture		
		HDR Movie		
		HDR Game		

Note:

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

When "HDR" is set to "non-off", the items "Contrast", "Brightness", "Eco Mode", "Gamma", "DCR"cannot be adjusted.

Color Setup

Color Setup	Picture Boost	OSD Setup	PIP / PIP Setting	Game Setting	Extra	Exit	Luminance

Color Temp.	◄	Warm	►		Red	▬▬▬	50
DCB Mode	◄	Off	►		Green	▬▬▬	50
DCB Demo	◄	Off	►		Blue	▬▬▬	50
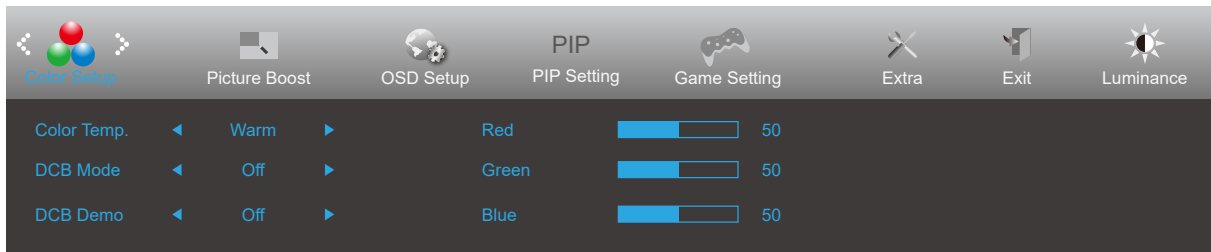
	Color Temp.	Warm	Recall Warm Color Temperature from EEPROM.
		Normal	Recall Normal Color Temperature from EEPROM.
		Cool	Recall Cool Color Temperature from EEPROM.
		sRGB	Recall SRGB Color Temperature from EEPROM.
		User	Restore Color Temperature from EEPROM.
	DCB Mode	Off	Disable DCB Mode.
		Full Enhance	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.

Note:

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

Picture Boost

| | | Picture Boost | OSD Setup | PIP PIP Setting | Game Setting | Extra | Exit | Luminance | Color Setup |

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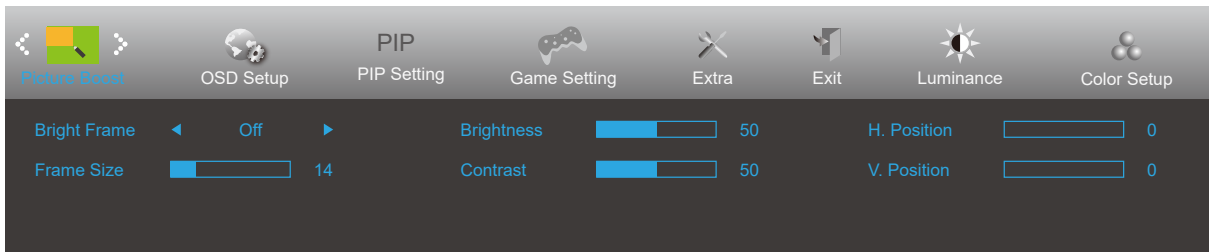
	Bright Frame	On or Off	Disable or Enable Bright Frame.
	Frame Size	14-100	Adjust Frame Size.
	Brightness	0-100	Adjust Frame Brightness.
	Contrast	0-100	Adjust Frame Contrast.
	H. position	0-100	Adjust Frame horizontal Position.
	V. position	0-100	Adjust Frame vertical Position.

Note:

1) Adjust the brightness, contrast, and position of the Bright Frame for better viewing experience.
2) When "HDR Mode" or "HDR" under "Luminance" is set to "non-off", all items under "Picture Boost" cannot be adjusted.

OSD Setup

	Language	◀ English ▶	H. Position	▮▮▮▮▮▮ 50	Transparence	▮▮ 25
	Timeout	▮ 10	V. Position	0	Break Reminder ◀	Off ▶
	DP Capability	◀ 1.2/1.4 ▶	Volume	▮▮▮▮▮ 50		
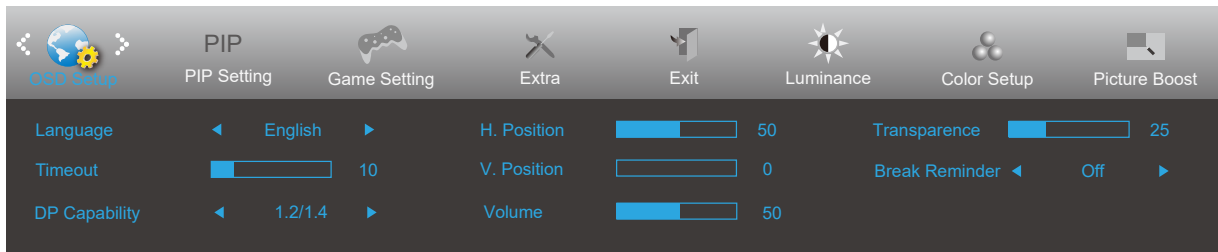
	Language		Select the OSD language.
	Timeout	5-120	Adjust the OSD Timeout.
	DP Capability	1.1/1.2/1.4	If the DP video content supports DP1.2/1.4, please select DP1.2/1.4 for DP Capability; otherwise, please select DP1.1. Please be noted that only DP1.2/1.4 support G-SYNC/Adaptive-Sync.
	H. Position	0-100	Adjust the horizontal position of OSD.
	V. Position	0-100	Adjust the vertical position of OSD.
	Volume	0-100	Volume Adjustment.
	Transparence	0-100	Adjust the transparence of OSD.
	B r e a k Reminder	On or Off	Break reminder if the user continuously works for more than 1hrs.

PIP Setting
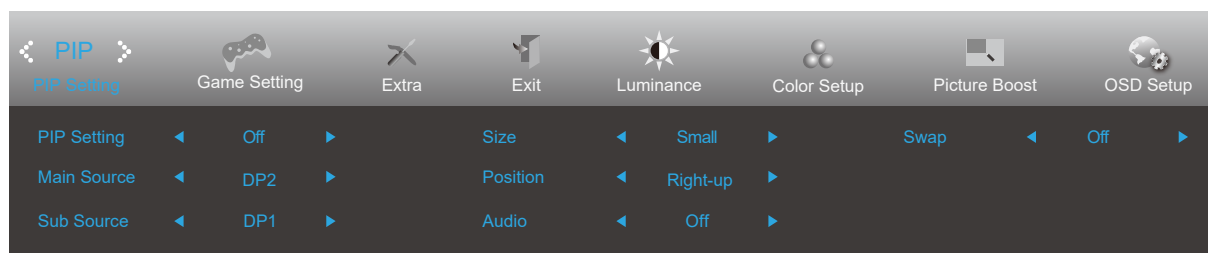
PIP	PIP Setting	Off / PIP / PBP		Disable or Enable PIP or PBP.
	Main Source	HDMI1 、 HDMI2 、 DP1、DP2		Select main screen source.
	Sub Source	HDMI1 、 HDMI2 、 DP1、DP2		Select sub screen source.
	Size	Small / Middle / Large		Select screen size.
	Position	Right-up		Set the screen location.
		Right-down		
		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		

Note：

1)When "HDR" is set to a non-off state, all items under "PIP Setting" can not be adjusted.

2)When PBP/PIP is On, the Main source / Sub-source input source compatibility is as follow：

PBP		Main source			
		HDMI1	HDMI2	DP1	DP2
Sub source	HDMI1	V	V	V	V
	HDMI2	V	V	V	V
	DP1	V	V	V	V
	DP2	V	V	V	V

PIP		Main source			
		HDMI1	HDMI2	DP1	DP2
Sub source	HDMI1	V	V	V	V
	HDMI2	V	V	V	V
	DP1	V	V	V	V*
	DP2	V	V	V*	V

*: When set to PIP, and DP1 and DP2 are input as both primary and secondary screen sources, one of the DP interfaces supports up to UHD 120Hz 8bit (RGB or YCbCr 444 format) or UHD 144Hz 8bit (YCbCr 422 or 420 format).

Game Setting

Game Setting	Extra	Exit	Luminance
Color Setup	Picture Boost	OSD Setup	PIP / PIP Setting

Game Mode	◄ Off ►	Game Color	▬▬▬ 10	G-SYNC	◄ On ►
Shadow Control	▬▬ 50	LowBlue Mode	◄ Off ►	Frame Counter	◄ Off ►
Low Input Lag	◄ On ►	Overdrive	◄ Off ►	MBR	▬ 0

		Off	No optimization by Smart image game
		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 / Multimedia / Internet / Office / Reading /	Decrease blue light wave by controlling color temperature.
	Overdrive	Off	Adjust the response time.
		Weak	
		Medium	
		Strong	
		Boost	
	G-SYNC	On or Off	Disable or Enable G-SYNC/Adaptive-Sync. Adaptive-Sync Run Reminder: When the G-SYNC/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
	MBR	0 ~ 20	MBR (Motion Blur Reduction) Provides 0-20 levels of adjustments to reduce motion blur. Note: 1.The MBR function can be adjusted when G-SYNC/Adaptive-Sync is turned off, and the refresh rate >75Hz. 2. The brightness of the screen will decrease as the adjustment value increases.

Note:

1) When "HDR Mode" under "Luminance" is set to "non-off", the items "Game Mode", "Shadow Control",

"Game Color", "Low Blue Mode" cannot be adjusted.
2) When "HDR" under "Luminance" is set to "non-off", the items "Game Mode", "Shadow Control", "Game Color", "Low Blue Mode" , "MBR"cannot be adjusted."Boost" under "Overdrive" is not available.

Extra

	Extra	Exit	Luminance	Color Setup	Picture Boost	OSD Setup	PIP PIP Setting	Game Setting
Input Select	◄ Auto ►		Reset	◄ No ►		Resolution : 3840(H)X2160(V) SDR		
Off Timer	◄ 00 ►		HDMI1	◄ 120Hz ►		H. Frequency : 133KHz		
DDC/CI	◄ Yes ►		HDMI2	◄ 120Hz ►		V. Frequency : 60Hz		
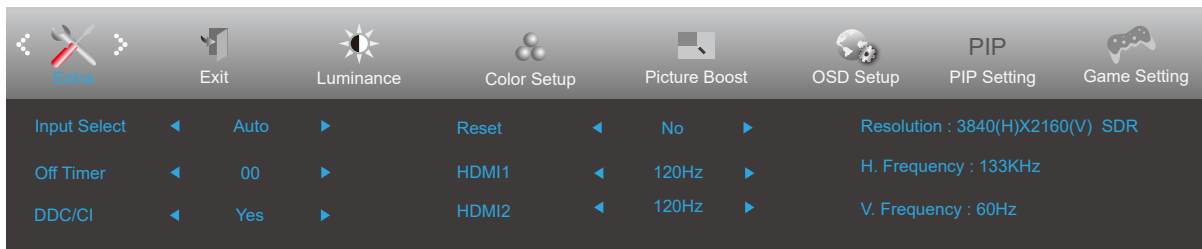
	Input Select	Auto/HDMI1/HDMI2/DP1/DP2	Select Input Signal Source.
	Off timer	0-24hrs	Select DC off time.
	DDC/CI	Yes or No	Turn ON/OFF DDC/CI Support.
	Reset	Yes or No	Reset the menu to default.
	HDMI1	120Hz/144Hz	When using the PS2(3) ,XBOX or DVD player, please change the OSD setting to "120Hz"
	HDMI2	120Hz/144Hz	When using the PS2(3) ,XBOX or DVD player, please change the OSD setting to "120Hz"

Exit
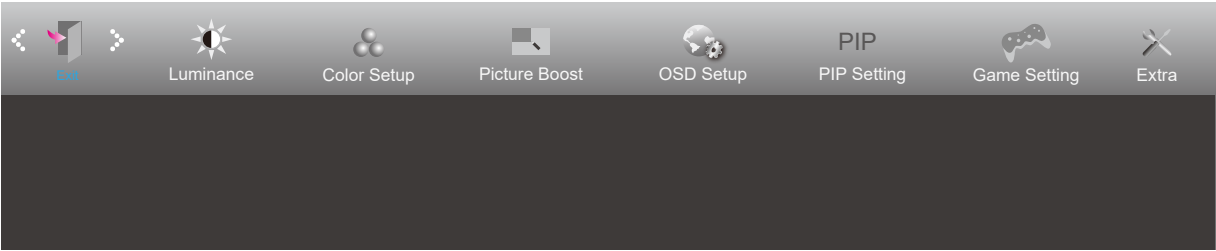
	Exit		Exit the main OSD

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 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 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	U32G3X		
	Driving System	TFT Color LCD		
	Viewable Image Size	80 cm diagonal		
	Pixel Pitch	0.181mm(H) x 0.181mm(V)		
	Video	HDMI Interface & DP Interface		
	Separate Sync.	H/V TTL		
	Display Color	1.07B[1]		
Others	Horizontal Scan Range	30k-255kHz		
	Horizontal Scan Size(Maximum)	697.3056mm		
	Vertical Scan Range	48-144Hz		
	Vertical Scan Size(Maximum)	392.2344mm		
	Optimal Preset Resolution	3840x2160@60Hz		
	Max Resolution	3840x2160@144Hz [2]		
	Plug & Play	VESA DDC2B/CI		
	Power Source	100-240V~, 50/60Hz, 1.5A		
	Power Consumption	Typical(default brightness and contrast)	40W	
		Max. (brightness = 100, contrast =100)	≤80W	
		Standby Mode	≤0.3W	
Physical Characteristics	Connector Type	HDMI/DP/Earphone out		
	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	0~ 5000 m (0~ 16404ft)	
		Non-Operating	0~ 12192m (0~ 40000ft)	

[1] Color Bit table：

Color Bit \ Signal Version \ Color Format State	HDMI2.1		DP1.4+DSC	
	YCbCr422 YCbCr420	YCbCr444 RGB	YCbCr422 YCbCr420	YCbCr444 RGB
UHD 144Hz 10 bpc	V（NVIDIA CARD）	V（NVIDIA CARD）	V	V
UHD 144Hz 8 bpc	V	V	V	V
UHD 120Hz 10 bpc	V	V	V	V
UHD 120Hz 8 bpc	V	V	V	V
UHD 100Hz 10 bpc	V	V	V	V
UHD 100Hz 8 bpc	V	V	V	V
8 bpc/10 bpc	V	V	V	V

[2] In order to reach UHD 144Hz for DP signal input, a DSC-supported graphics card must be used.Visit the graphics card manufacturer's website for DSC support.

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
WXGA+	1440x900@60Hz	55.935	59.887
WSXGA	1680x1050@60Hz	64.674	59.954
FHD	1920x1080@60Hz	67.5	60
	1920x1080@120Hz	135	120
QHD	2560x1440@120Hz	182.996	119.998
***	1920x2160@60Hz	133.293	59.988
UHD(HDMI Only)	3840x2160 @30Hz	67.5	30
UHD	3840x2160 @60Hz	133.3	60
	3840x2160 @75Hz	166.652	75
	3840x2160 @100Hz	222.2	100.001
	3840x2160 @120Hz	266.653	120.006
	3840x2160 @144Hz	319.994	143.989
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		
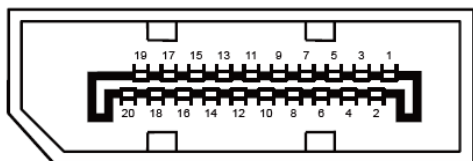
20-Pin Color Display Signal Cable

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.