

# AOC



## LCD Monitor User Manual

**22B15H2**

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**HDMI**®  
HIGH-DEFINITION MULTIMEDIA INTERFACE

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# Safety

## National Conventions

The following subsections describe 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 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.



For use only with included power adapter:

Manufacturer: Shenzhen Suoyuan Technology Co., Ltd.

Model: SOY-1200200EU-539

# 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.

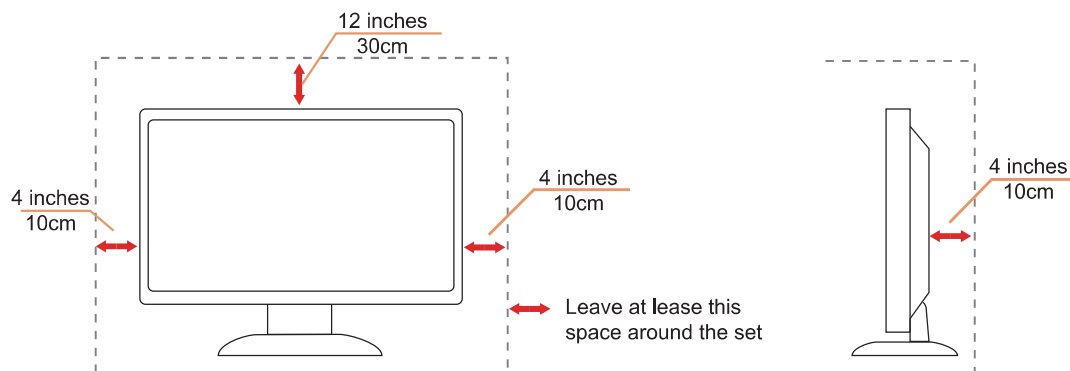
**!** If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

**!** 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 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.



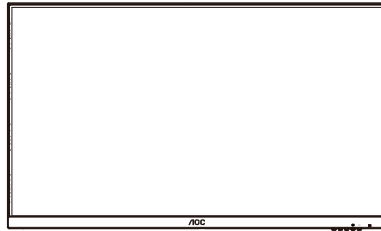
Do not engage the LCD monitor in severe vibration or high impact conditions during operation.



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

# Setup

## Contents in Box



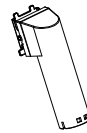
Monitor



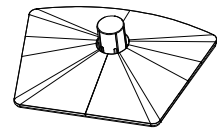
QSG



Warranty card



Stand



Base



Power Adapter



HDMI Cable

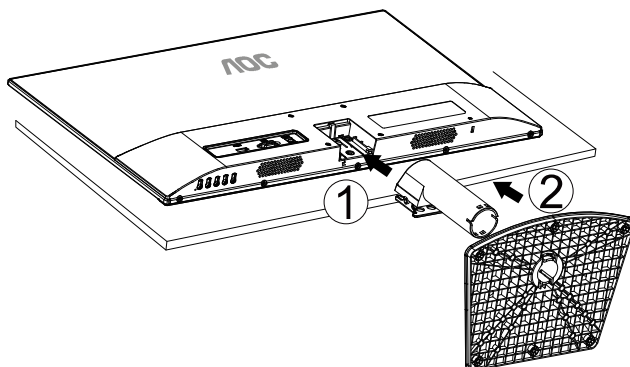
✳ Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.



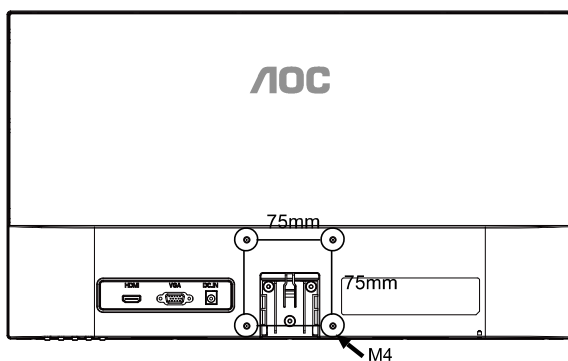
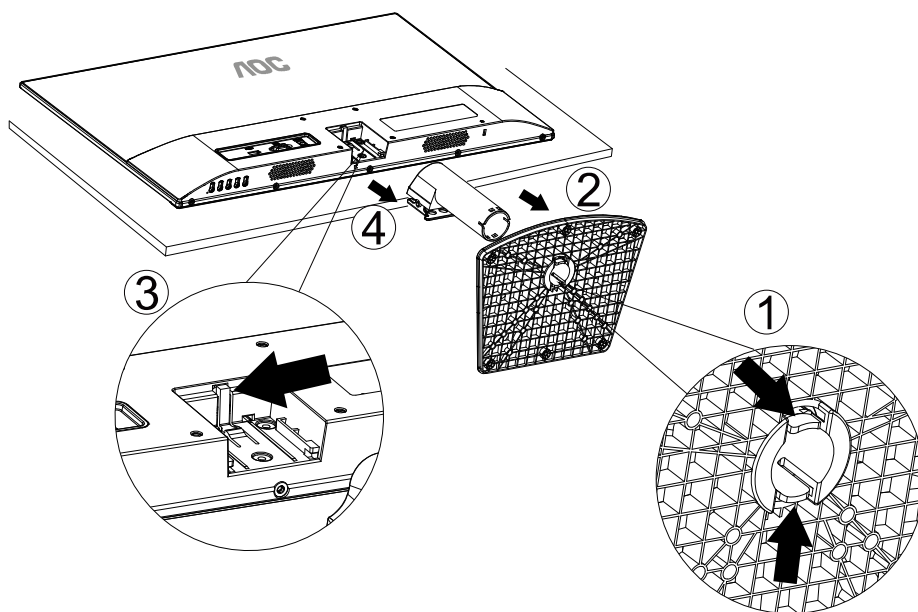
## Setup Stand & Base

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

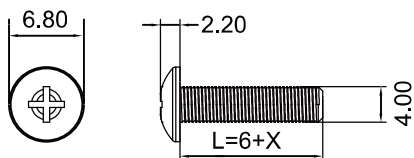
### Setup:



### Remove:



壁挂孔螺丝规格: M4\*(6+X)mm(X=壁挂架铁件厚度)

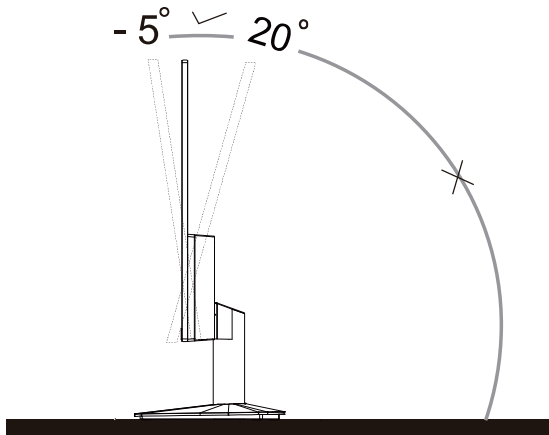


## Adjusting Viewing Angle

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.

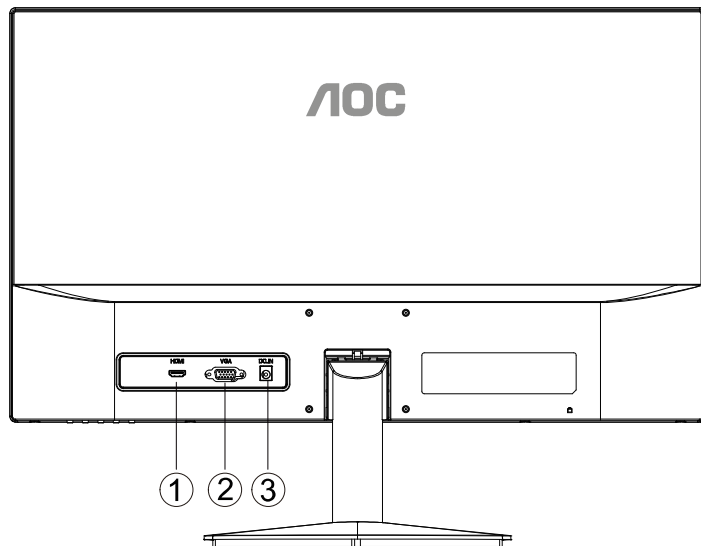


### Warning

- 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
2. D-SUB
3. Power

## Connect to PC

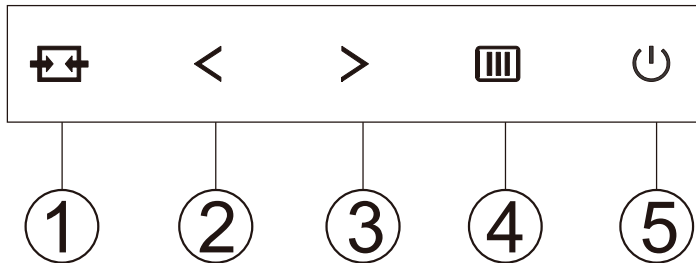
1. Connect the power adaptor to the back of the display firmly.
2. Turn off your computer and unplug its power cable.
3. Connect the display signal cable to the video connector on the back of your computer.
4. Plug the power cord of your computer and the power adaptor of your display into a nearby outlet.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

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

# Adjusting

## Hotkeys



1	Source/Auto/Exit
2	Clear Vision/<
3	Image Ratio/>
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.

### Image ratio/>

When the OSD menu is turned off, press the ">" key to enter the image scale switching function, and press the "<" or ">" key to switch between 4:3 or widescreen modes. If the input resolution of the product is widescreen mode, the "Image Ratio" item in the OSD cannot be adjusted.

### Source/Auto/Exit

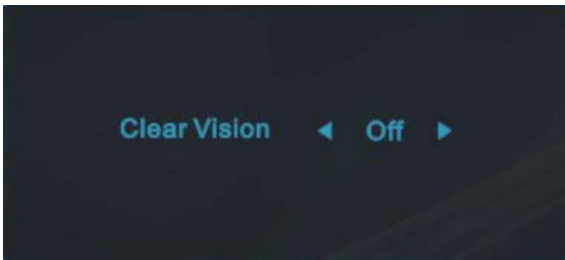
When the OSD menu is turned off, if the input is a D-SUB signal source, holding down this key for about 2 seconds will enter the automatic adjustment function. The automatic adjustment function will automatically set the horizontal position, vertical position, clock, and phase.

When the OSD menu is turned off, press this key to activate the signal source switching function. Continuously press this key to select the signal source displayed in the information bar, and press the menu key to adjust to select the signal source.

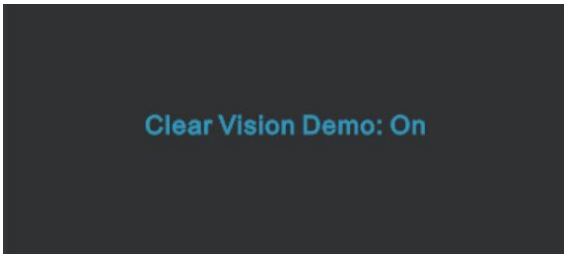
When the OSD menu is active, this button serves as the exit key (to exit the OSD menu).

**Clear Vision/<**

- 1. When the OSD is not displayed, press the "<" button to activate Clear Vision. one
- 2. Use the "<" or ">" button to select settings such as weak, medium, strong, or off. The default setting is always ' off '



- 3. Press and hold the "<" button for 5 seconds to activate the Clear Vision demo, and the message "Clear Vision Demo: on" will appear on the screen. Press the menu or exit button, and the message will disappear. Press and hold the ' <' button again for 5 seconds to close the Clear Vision demonstration.(Clear Vision demo: On) Five seconds.

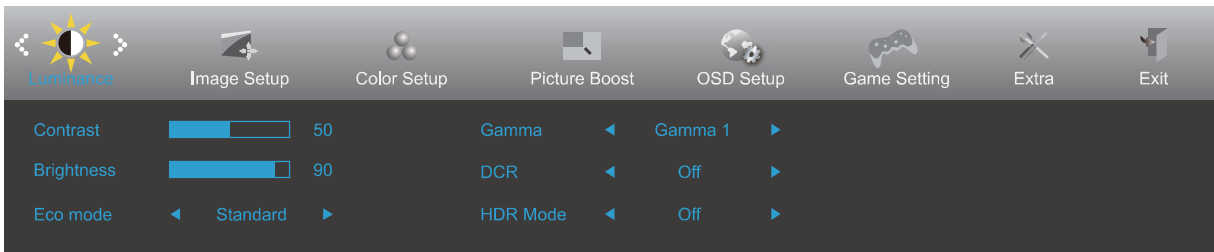










The Clear Vision function can convert low resolution blurry images into clear and vivid images, providing the best image viewing experience.

Clear Vision	Weak	Adjust Clear Vision.
	Medium	
	Strong	
	Off	
Clear Vision demonstrate	Disable or Enable	Disable or enable demonstrations

# OSD Setting

Basic and simple instruction on the control keys.

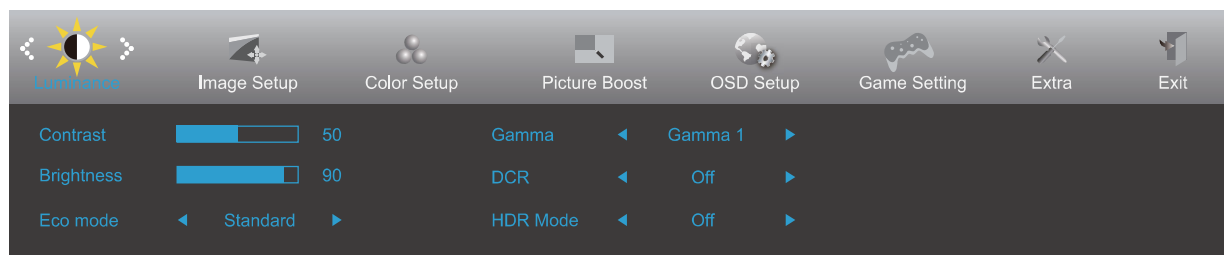



- 1). Press the  **MENU-button** to activate the OSD window.
- 2). Press < **Left** or > **Right** to navigate through the functions. Once the desired function is highlighted, press the  **MENU-button** to activate it, press < **Left** or > **Right** to navigate through the sub-menu functions. Once the 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 un-lock 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 disable to adjust.
- 2). If the product input signal resolution is the local resolution, the "Image Ratio" item is invalid.
- 3). ECO modes (except Standard mode), DCR, DCB mode and Picture Boost, for these four states that only one state can exist.

## Luminance



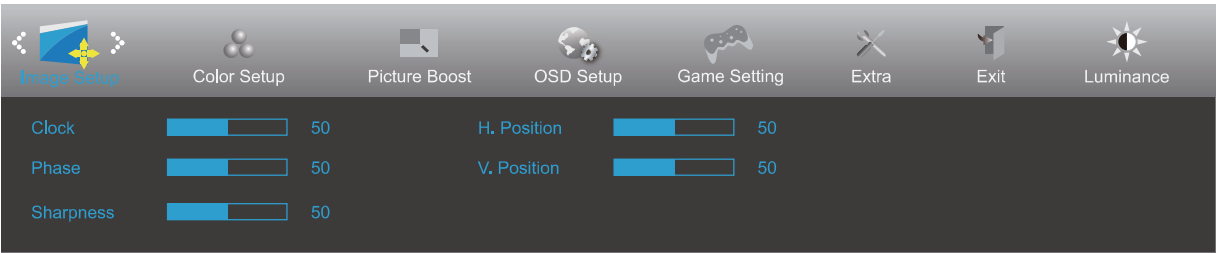


	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment.
	Eco mode	Standard		Standard Mode.
		Text		Text Mode.
		Internet		Internet Mode.
		Game		Game Mode.
		Movie		Movie Mode.
		Sports		Sports Mode.
		Reading		Reading Mode.
	Gamma	Gamma1		Adjust to Gamma 1.
		Gamma2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

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

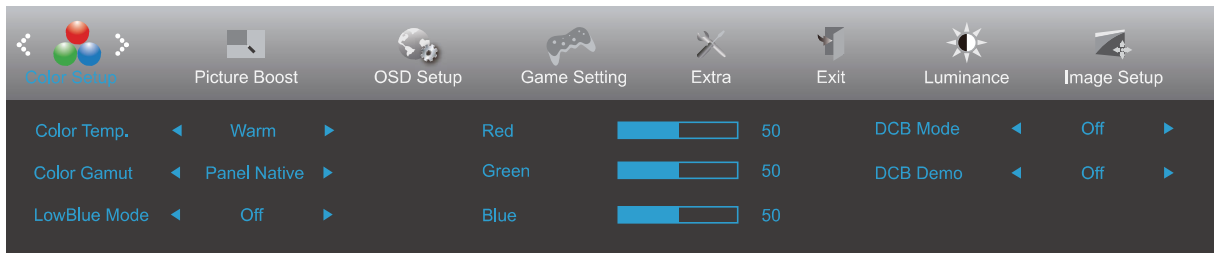
Image Setup




	Clock	0-100	Adjust the image clock to reduce vertical line noise
	Phase	0-100	Adjust the image phase to reduce horizontal line noise
	Sharpness	0-100	Adjust the sharpness of the image.
	H. Position	0-100	Adjust the horizontal position of the image
	V. Position	0-100	Adjust the vertical position of the image.



## Color Setup



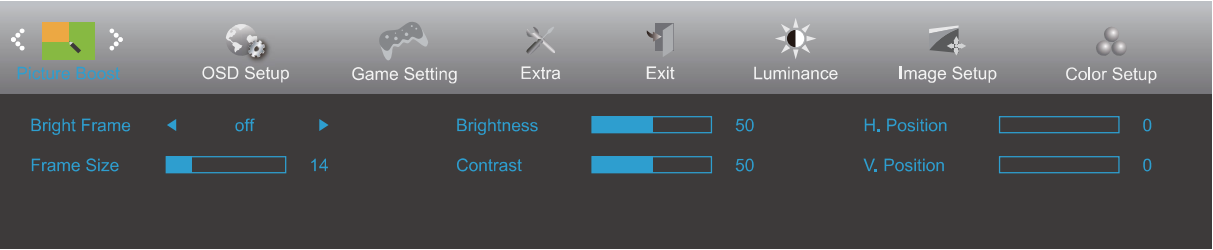
	Color Temp.	Warm	Warm Color Temperature
		Normal	Normal Color Temperature
		Cool	Cool Color Temperature
		User	Color Temperature
	Color Gamut	Panel Native	Panel standard color space.
		sRGB	sRGB
	LowBlue Mode	Off	Reduce the proportion of blue light by controlling the color temperature.
		Multimedia	
		Internet	
		Office	
		Reading	
	Red	0-100	Red gain from Digital-registe
	Green	0-100	Green gain from Digital-registe
	Blue	0-100	Blue gain from Digital-registe
	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 /Off	Disable or Enable Demo.


### Note:

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

When Color Setup is set to sRGB, all other items under Color Gamut cannot be adjusted.

# Picture Boost



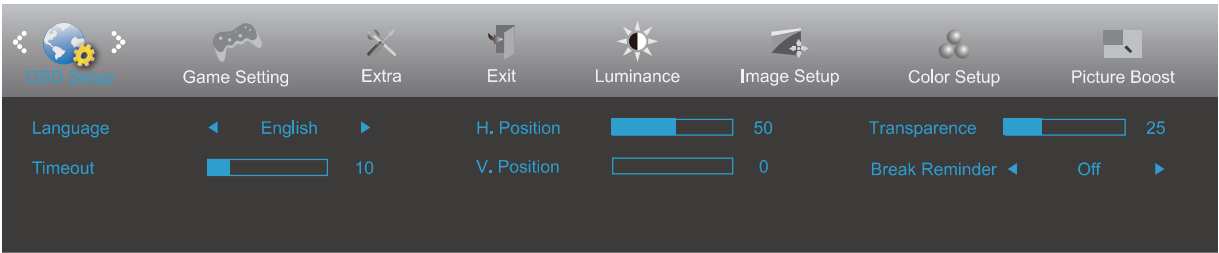
	Bright Frame	On or Off	Disable or Enable Bright Frame.
	Frame Size	14-100	Adjust Frame Size.
	Brightness	0-100	Adjust Frame Brightness.
	Contrast	0-100	Adjust Frame Contrast.
	H. position	0-100	Adjust Frame horizontal Position.
	V. position	0-100	Adjust Frame vertical Position.


**Note:**

Adjust the brightness, contrast, and position of the Bright Frame for better viewing experience.

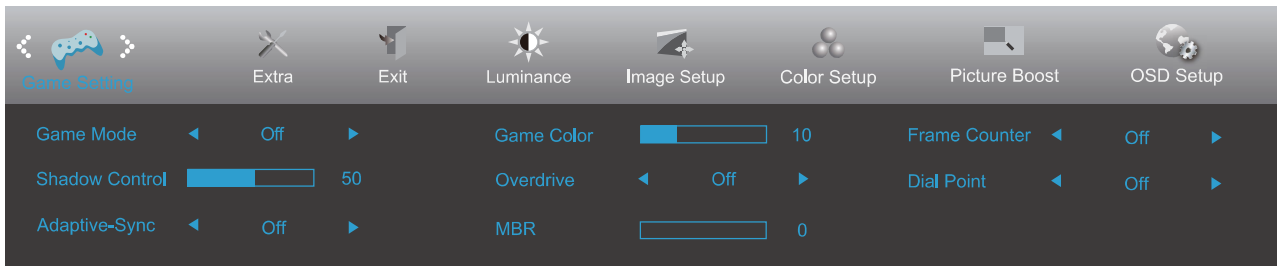
When “HDR Mode” or “HDR” under “Luminance” is set to “non-off”, all items under “Picture Boost” cannot be adjusted.


# OSD Setup



	Language		Select the OSD language.
	Timeout	5-120	Adjust the OSD Timeout.
	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.
	Break Reminder	On or Off	Break reminder if the user continuously work for more than 1hrs.

## Game Setting

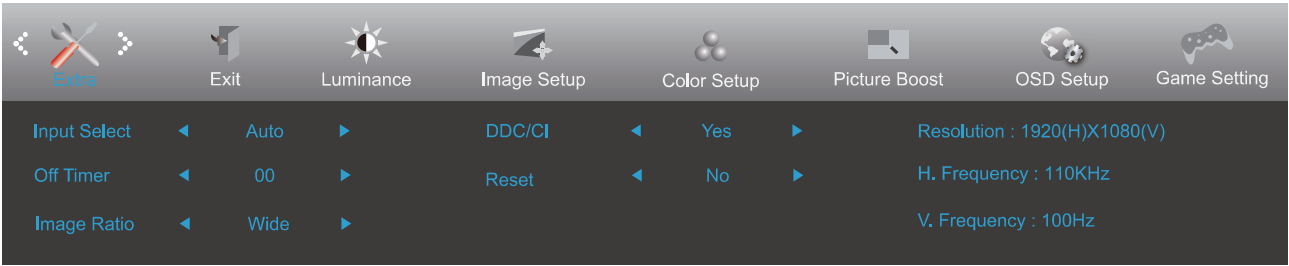



	Game Mode	Off	No optimization by Smart image game
		FPS	For playing FPS (first Person Shooters) games. Improves dark theme black level details.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
		Racing	For playing Racing games, Provides fastest response time and high color saturation.
		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 contrast for clear picture. 1. If picture is too dark to be saw the detail clearly, adjusting from 50 to 100 for clear picture. 2. If picture is too white to be saw the detail clearly, adjusting from 50 to 0 for clear picture
	Adaptive-Sync	On / Off	Turn off or on the Adaptive Sync feature. Adaptive Sync running reminder: When the Adaptive Sync feature is enabled, there may be flickering in certain gaming environments,
	Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.
	Overdrive	Off	Adjust response time.
		Weak	If the user sets OverDrive to a "strong" level, it may display blurry images. Users can adjust the Overdrive level or turn it off according to their preferences. Note: 1. The "Boost" function is optional when Adaptive-Sync is turned off, and the refresh rate is $\geq 75\text{Hz}$ . 2. The screen brightness will decrease when the "Boost" function is turned on.
		Medium	
		Strong	
		Boost	
	MBR	0 ~ 20	MBR (motion blur reduction) provides 0-20 levels of adjustment to reduce motion blur Note: 1. The MBR function can be adjusted when Adaptive-Sync is turned off, and the refresh rate $\geq 75\text{Hz}$ . 2. The brightness of the screen will decrease as the adjustment value increases.
	Frame Counter	Off / Right-Up / Right-Down / Left-Down / Left-Up	Instantly display the vertical frequency of the current signal
	DialPoint	On/Off	Turn on or off the game crosshair

### Note:

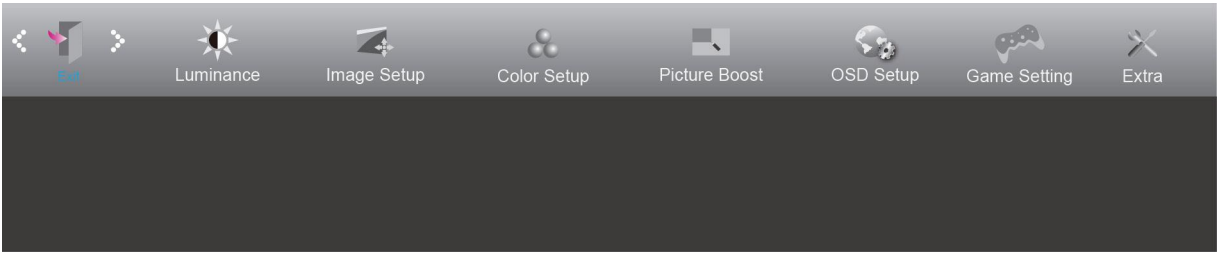
When "HDR Mode" under "Luminance" is set to "non-off", the items "Game Mode", "Shadow Control", "Game Color", cannot be adjusted.


Extra



	Input Select	Auto/D-SUB/HDMI	Select Input Signal Source.
	Off Timer	0-24hrs	Select DC off time.
	Image Ratio	Wide / 4:3	Choose widescreen or 4:3 display format.
	DDC/CI	Yes or No	Turn ON/OFF DDC/CI Support.
	Reset	Yes or No	Reset the menu to default.

Exit



	Exit		Exit the main OSD
---	------	--	-------------------

# LED Indicator

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

# Troubleshoot

Problem & Question	Possible Solutions
<b>Power LED Is Not ON</b>	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.
<b>No images on the screen</b>	<ul style="list-style-type: none"> <li>• Is the power cord connected properly? Check the power cord connection and power supply.</li> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• Make sure the AOC Monitor Drivers are installed.</li> </ul>
<b>Picture Is Fuzzy &amp; Has Ghosting Shadowing Problem</b>	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.
<b>Picture Bounces, Flickers Or Wave Pattern Appears In The Picture</b>	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.
<b>Monitor Is Stuck In Active Off-Mode"</b>	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.
<b>Missing one of the primary colors (RED, GREEN, or BLUE)</b>	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.
<b>Screen image is not centered or sized properly</b>	Adjust H-Position and V-Position or press hot-key (AUTO).
<b>Picture has color defects (white does not look white)</b>	Adjust RGB color or select desired color temperature.
<b>Horizontal or vertical disturbances on the screen</b>	Use Windows 7/8/10 shut-down mode to adjust CLOCK and FOCUS. Press to auto-adjust.
<b>Regulation &amp; Service</b>	Please refer to Regulation & Service Information which is in the CD manual or <a href="http://www.aoc.com">www.aoc.com</a> (to find the model you purchase in your country and to find Regulation & Service Information in Support page).



# Specification

## General Specification

Panel	Model Name	22B15H2	
	Driving System	TFT Color LCD	
	Viewable Image Size	54.5 cm diagonal	
	Pixel Pitch	0.2493mm(H) x 0.241 mm(V)	
	Video	HDMI Interface & R,G,B	
	Separate Sync.	H/V TTL	
	Display Color	16.7M	
Others	Horizontal Scan Range	30k-85kHz (D-SUB) 30k-115kHz (HDMI)	
	Horizontal scan Size(Maximum)	478.656mm	
	Vertical Scan Range	48-75Hz (D-SUB) 48-100Hz (HDMI)	
	Vertical Scan Size(Maximum)	260.28mm	
	Optimal Preset Resolution	1920x1080@75Hz(D-SUB) 1920x1080@100Hz(HDMI)	
	Max Resolution	1920x1080@75Hz(D-SUB) * 1920x1080@100Hz(HDMI)	
	Plug & Play	VESA DDC2B/CI	
	Power Source	R/G/B / HDMI	
	Power Consumption	12V $\approx$ 2.0A	
	Connector	Typical(default brightness and contrast)	20.5W
		Max. (brightness = 100, contrast = 100)	$\leq$ 22.5W
		Standby mode	$\leq$ 0.3W
Physical Characteristics	Connector Type	D-Sub/HDMI	
	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 ~ 5000 m (0ft ~ 16404ft )
		Non-Operating	0m ~ 12192m (0ft ~ 40000ft )

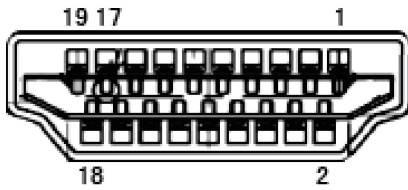
\*: Due to compatibility issues with some graphics cards, when D-SUB signal is input, if the resolution 1920x1080@75Hz If any errors occur, please adjust the refresh rate to 60Hz.

## Preset Display Modes

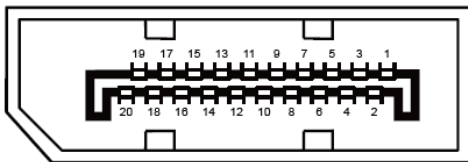
STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(KHz)	VERTICAL FREQUENCY(Hz)
VGA	640x480@60Hz	31.469	59.94
	640x480@72Hz	37.861	72.809
	640x480@75Hz	37.500	75.000
MAC MODES VGA	640x480@67Hz	35.000	66.667
IBM MODE	720x400@70Hz	31.469	70.087
SVGA	800x600@56Hz	35.156	56.25
	800x600@60Hz	37.879	60.317
	800x600@72Hz	48.077	72.188
	800x600@75Hz	46.875	75.000
MAC MIDE SVGA	835 x 624@75Hz	49.725	74.500
XGA	1024x768@60Hz	48.363	60.004
	1024x768@70Hz	56.476	70.069
	1024x768@75Hz	60.023	75.029
SXGA	1280x1024@60Hz	63.981	60.020
	1280x1024@75Hz	79.976	75.025
WSXG	1280x720@60Hz	45.000	60.000
	1280x960@60Hz	60.000	60.000
WXGA+	1440x900@60Hz	55.935	59.876
WSXGA+	1680x1050@60Hz	65.290	59.954
FHD	1920x1080@60Hz	67.500	60.000
	1920x1080@75Hz	83.909	74.986
	1920x1080@100Hz	110	100

According to VESA standard, different operating systems and graphics cards may have a certain error (+/-1HZ) when calculating refresh rate (field frequency), the specific refresh rate (field frequency) please refer to. The object shall prevail.

## Pin Assignments



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.

## Copyright description



HIGH-DEFINITION MULTIMEDIA INTERFACE

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