

AOC



LCD Monitor User Manual

16T20

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HDMI[®]
HIGH-DEFINITION MULTIMEDIA INTERFACE

Safety	1
National Conventions	1
Power	2
Installation	3
Cleaning	4
Other	5
Setup	6
Contents in Box	6
Setup Stand & Base	7
Adjusting Viewing Angle	8
Connecting the Monitor	9
Wall Mounting	10
Adjusting	11
Hotkeys	11
OSD Setting	12
Luminance	13
Color Setup	14
Picture Boost	15
OSD Setup	16
Game Setting	17
Extra	18
Exit	19
LED Indicator	20
Troubleshoot	21
Specification	22
General Specification	22
Preset Display Modes	23
Pin Assignments	24
Plug and Play	25

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.

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.

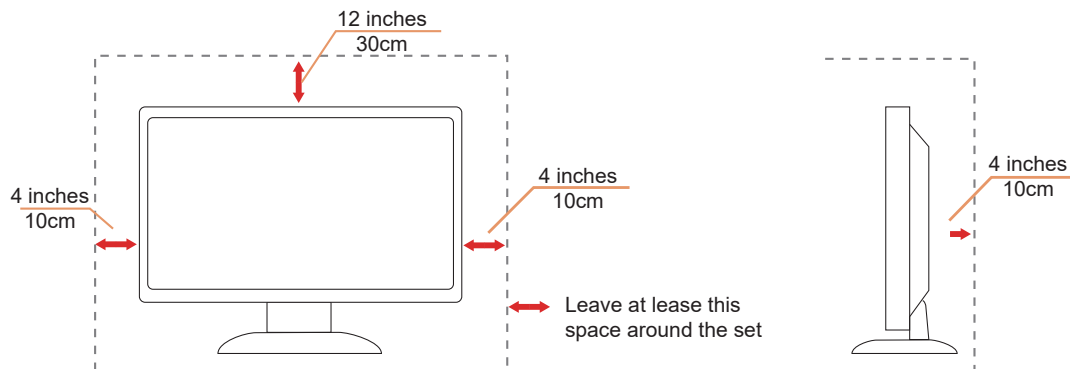
! If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

! 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.

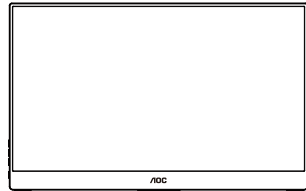
 Make sure that the ventilating openings are not blocked by a table or curtain.

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

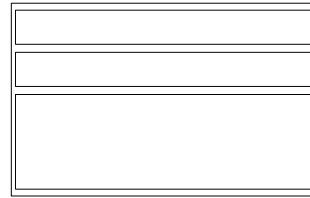
 Do not knock or drop the monitor during operation or transportation.

Setup

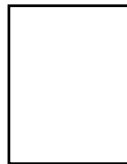
Contents in Box



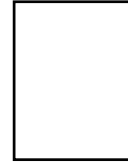
Monitor



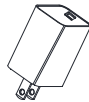
Flip Cover



QSG



Warranty card



Power Adapter
CP0154-0503000UA1



USB A-C
Cable



HDMI
Cable



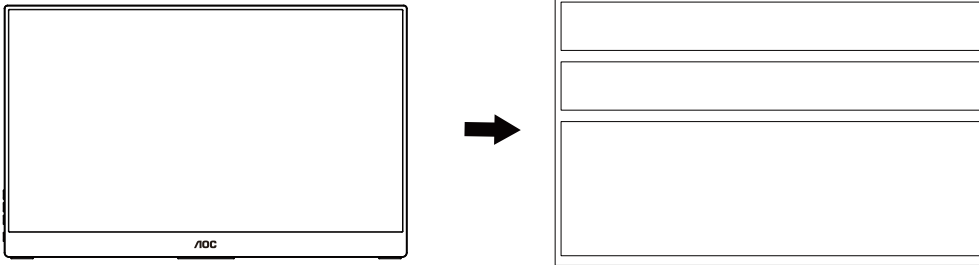
USB C
Cable

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

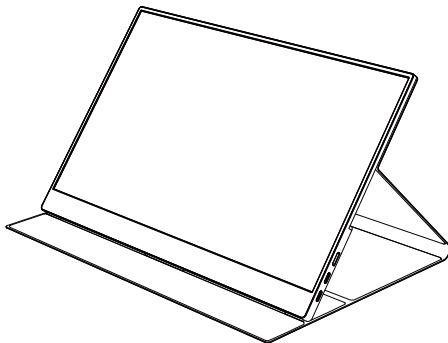
Setup Stand & Base

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

Setup:



Remove:

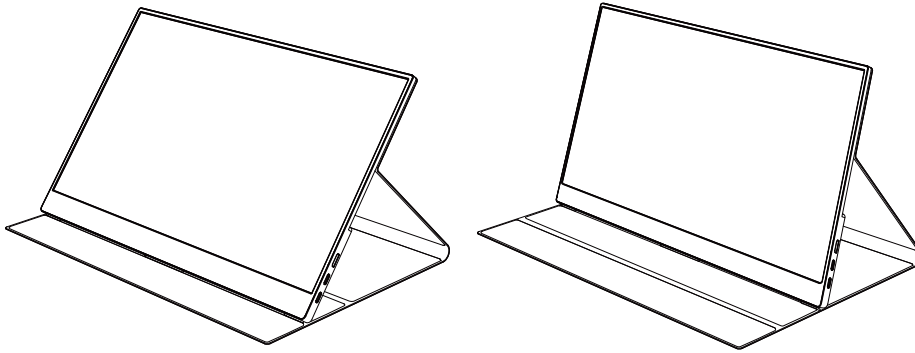


Adjusting Viewing Angle

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:



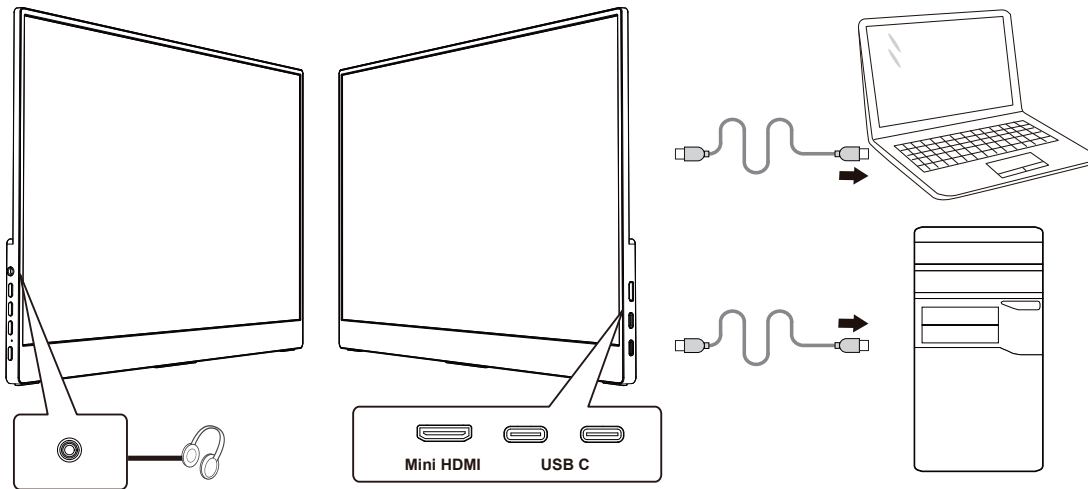
NOTE:

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



1. Mini HDMI
2. USB C
3. Earphone

Connect to PC

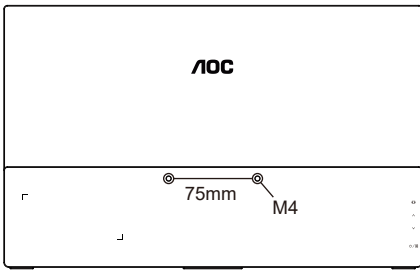
1. Connect the power adaptor to the back of the display firmly.
2. Turn off your computer and unplug its power cable.
3. Connect the display signal cable to the video connector on the back of your computer.
4. Plug the power cord of your computer and the power adaptor of your display into a nearby outlet.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

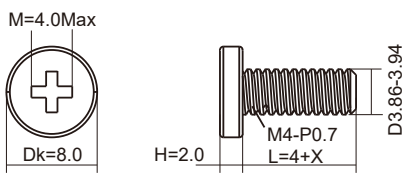
To protect equipment, always turn off the PC and LCD monitor before connecting.

Wall Mounting

Preparing to Install An Optional Wall Mounting Arm.



X2 Wall Mounting: M4*(4+X)mm
(X=Thickness of Wall mount bracket)

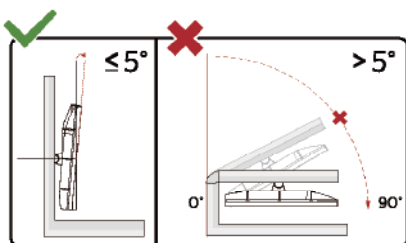


This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this procedure.

Follow these steps:

1. Follow the manufacturer's instructions to assemble the wall mounting arm.
2. 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.
3. Insert the 2 screws into the holes and tighten.
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.

Noted: Always contact manufacturer for wall-mount installation.(For models with wall mount)



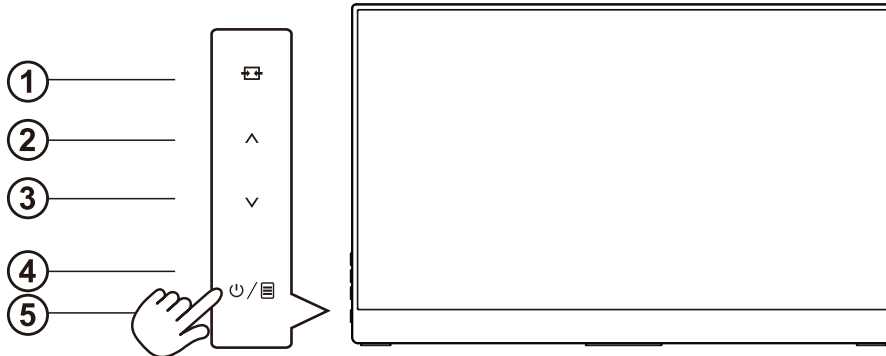
* Display design may differ from those illustrated.

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	Volume
3	Game Mode
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.

Volume

When there is no OSD, press “^” key to open Volume function, then press “^” or “v” key to select Volume.

Game Mode

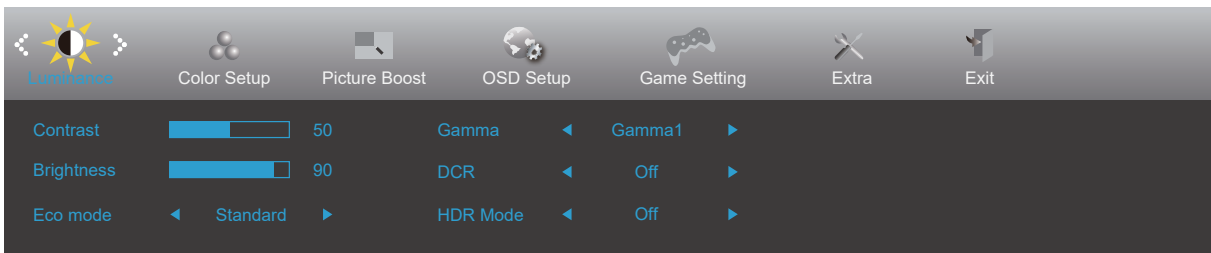
When there is no OSD, press “v” key to open game mode function, then press “^” or “v” key to select game mode (FPS, RTS, Racing, Gamer 1, Gamer 2 or Gamer 3) basing on the different game types.





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.

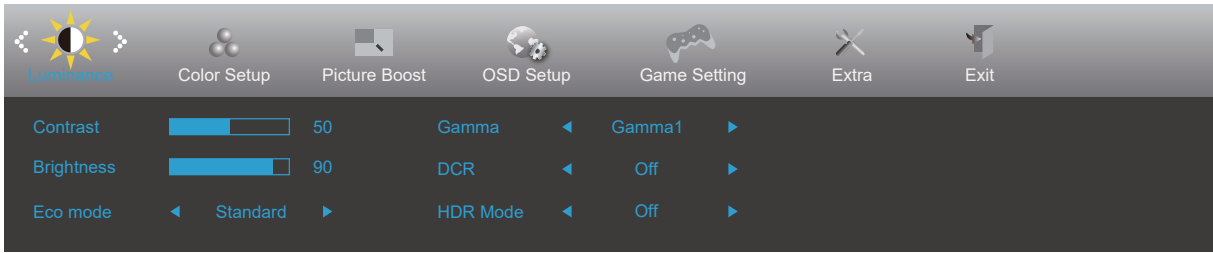










- 1). Press the  **MENU-button** to activate the OSD window.
- 2). Press **Up** or **Down** to navigate through the functions. Once the desired function is highlighted, press the  **MENU-button** to activate it, press **Up** or **Down** to navigate through the sub-menu functions. Once the desired function is highlighted, press  **MENU-button** to activate it.
- 3). Press **Up** or **Down** to change the settings of the selected function. Press  to exit. If you want to adjust any other function, repeat steps 2-3.

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.
- 4). OSD lock, long press the "  " button for 10 seconds to lock or unlock the menu.

Luminance

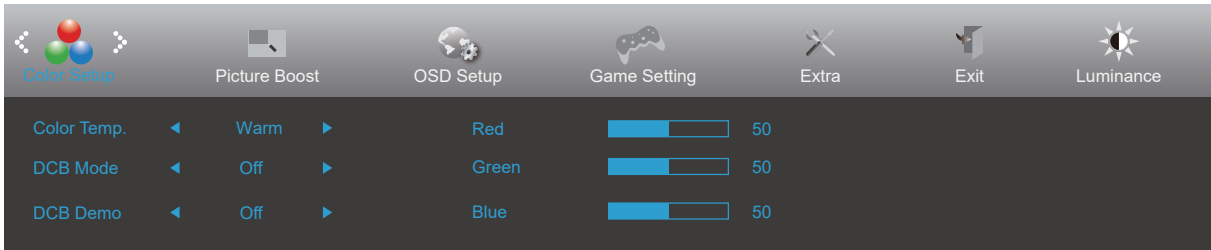



	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment.
	Eco mode	Standard	<input checked="" type="checkbox"/>	Standard Mode.
		Text		Text Mode.
		Internet		Internet Mode.
		Game		Game Mode.
		Movie		Movie Mode.
		Sports		Sports Mode.
		Reading		Reading Mode.
	Gamma	Gamma1	Adjust to Gamma 1.	
		Gamma2	Adjust to Gamma 2.	
		Gamma3	Adjust to Gamma 3.	
	DCR	Off	<input type="checkbox"/>	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.	
HDR Picture				
HDR Movie				
HDR Game				

Note:

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

Color Setup

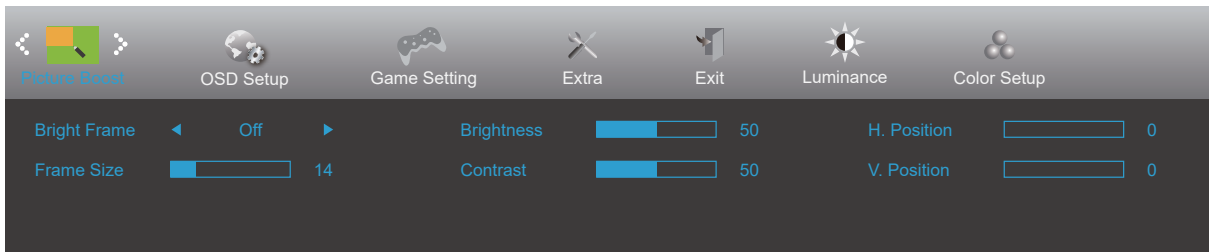



	Color Temp.	Warm	Recall Warm Color Temperature from EEPROM.
		Normal	Recall Normal Color Temperature from EEPROM.
		Cool	Recall Cool Color Temperature from EEPROM.
		User	Restore Color Temperature from EEPROM.
		sRGB	Retrieve sRGB Color Temperature from EEPROM.
	DCB Mode	Off	Disable DCB Mode.
		Full 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 “Color Setup” under “HDR Mode” is set to “non-off”, “Color Setup” items cannot be adjusted.

Picture Boost



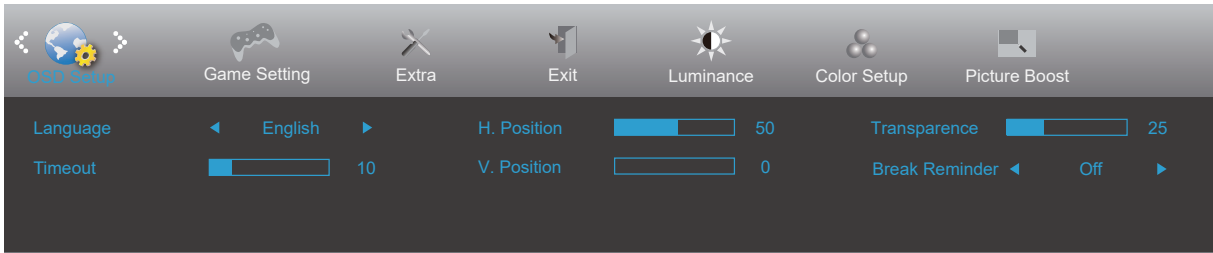
	Bright Frame	On or Off	Disable or Enable Bright Frame.
	Frame Size	14-100	Adjust Frame Size.
	Brightness	0-100	Adjust Frame Brightness.
	Contrast	0-100	Adjust Frame Contrast.
	H. position	0-100	Adjust Frame horizontal Position.
	V. position	0-100	Adjust Frame vertical Position.


Note:

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

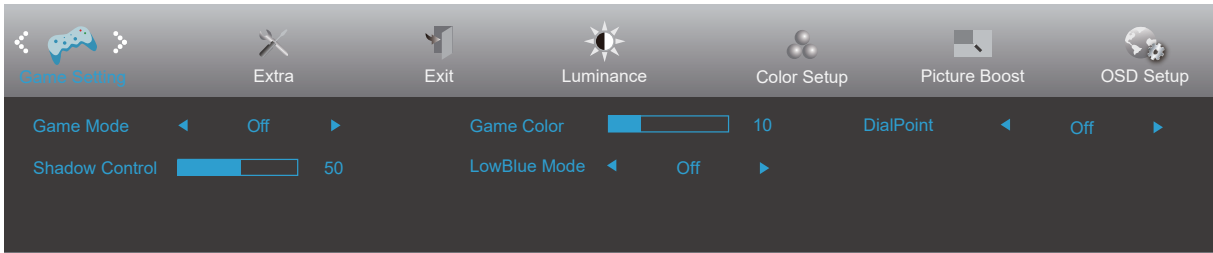
When "HDR Mode" under "Luminance" is set to "non-off", all items under "Picture Boost" cannot be adjusted.


OSD Setup



	Language	English	Select the OSD language.
		Français	
		Français	
		Português	
		Deutsch	
		Italiano	
		Nederlands	
		Svenska	
		Suomi	
		Polski	
		Čeština	
		Русский	
		한국어	
		Türkçe	
		Українська	
繁體中文			
简体中文			
日本語			
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.	
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

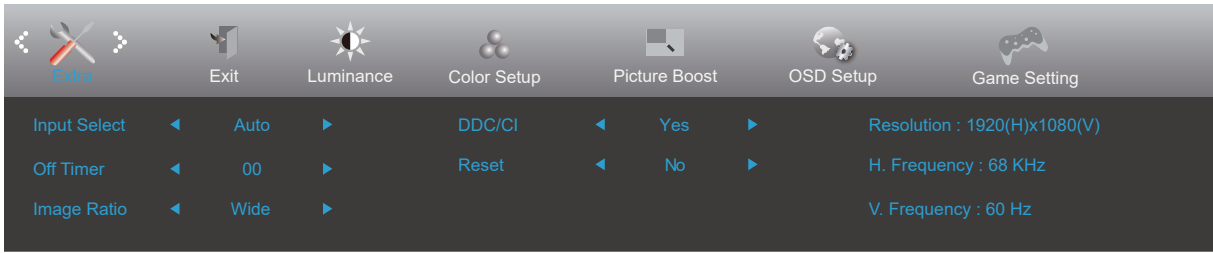



	Game Mode	Off	No optimization by Smart image game
		FPS	For playing FPS (first Person Shooters) games. Improves dark theme black level details.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
		Racing	For playing Racing games, Provides fastest response time and high color saturation.
		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 to100 for clear picture. 2. If picture is too white to be saw the detail clearly, adjusting from 50 to0 for clear picture
Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.	
LowBlue Mode	off/Multimedia/ Network/Office/Reading	Reduce blue light waves by controlling Color Temp.	
DialPoint	on off	Turn on or off the game DialPoint.	

Note:

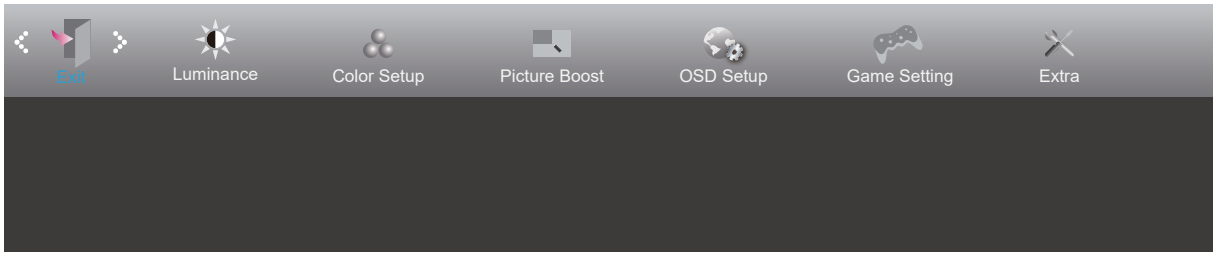
When "Color Setup" under "HDR Mode" is set to "non-off", "Game Mode", "Shadow Control", "Game Color" and "Low Blue Mode" items cannot be adjusted.

Extra



	Input Select	Auto/HDMI/USB C1/USB C2	Select Input Signal Source.
	Off timer	0-24hrs	Select DC off time.
	Image Ratio	Wide / 4:3	Select image ratio for Display
	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
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	<ul style="list-style-type: none"> ● 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

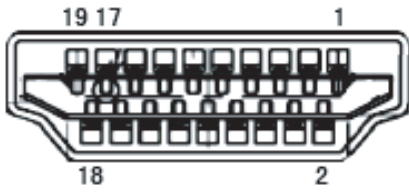
General Specification

Panel	Model Name	16T20		
	Driving System	TFT Color LCD		
	Viewable Image Size	39.5cm diagonal(15.6" Wide Screen)		
	Pixel Pitch	0.17925mm(H) x 0.17925mm(V)		
Others	Horizontal Scan Range	30k-85kHz		
	Horizontal Scan Size(Maximum)	344.16mm		
	Vertical Scan Range	48-75Hz		
	Vertical Scan Size(Maximum)	193.59mm		
	Max Resolution	1920x1080@60Hz		
	Plug & Play	VESA DDC2B/CI		
	External Power Supply Model	CP0154-0503000UA1		
	Power Source	5.0V $\overline{\text{DC}}$ 3.0A		
	Power Consumption	Typical (default brightness and contrast)	10W	
		Max. (brightness =100, contrast =100)	$\leq 15W$	
		Standby mode	$\leq 0.5W$	
Dimensions	354.2x222.4x9.6mm(WxHxD)			
Net Weight	1.1kg			
Physical Characteristics	Connector Type	Mini HDMI/USB C		
	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)	

Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(KHz)	VERTICAL FREQUENCY(Hz)
VGA	640x480@60Hz	31.469	59.940
SVGA	800x600@56Hz	35.156	56.250
	800x600@60Hz	37.879	60.317
XGA	1024x768@60Hz	48.363	60.004
SXGA	1280x1024@60Hz	63.981	60.020
WSXG	1280x720@60Hz	45.000	60.000
	1280x960@60Hz	60.000	60.000
WXGA+	1440x900@60Hz	55.935	59.887
WSXGA+	1680x1050@60Hz	65.290	59.954
FHD	1920x1080@60Hz	67.500	60.000

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		

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.