Manuals+ — User Manuals Simplified.

AOC C32G2AE LCD Monitor User Manual

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Contents

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.

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 lease this
space around the set
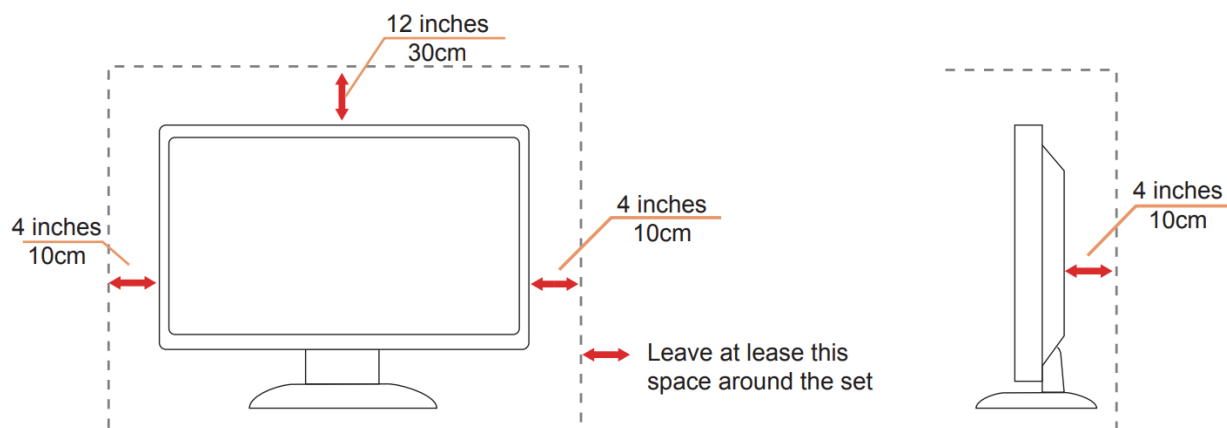
Cleaning

⚠️ 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.

H_2O
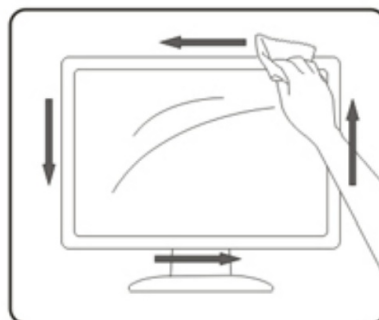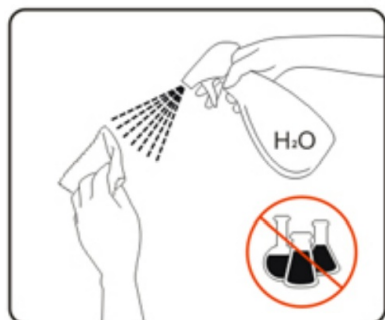
Other

⚠️ 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.

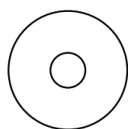⚠️ Do not knock or drop the monitor during operation or transportation.
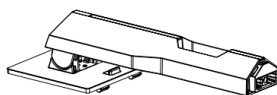
Setup

Contents in Box

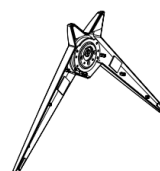

CD Manual   Warranty card   Stand   Base

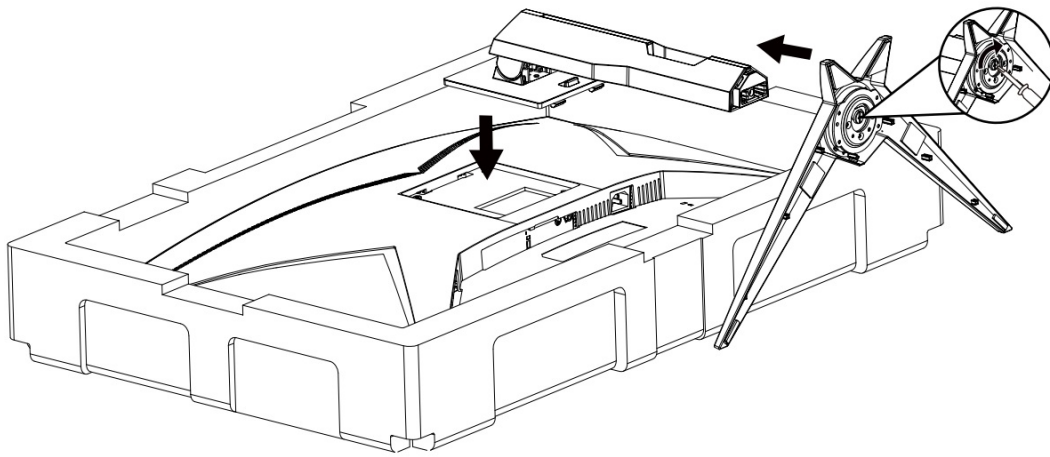Power Cable   DP Cable   HDMI Cable   VGA Cable   Audio Cable

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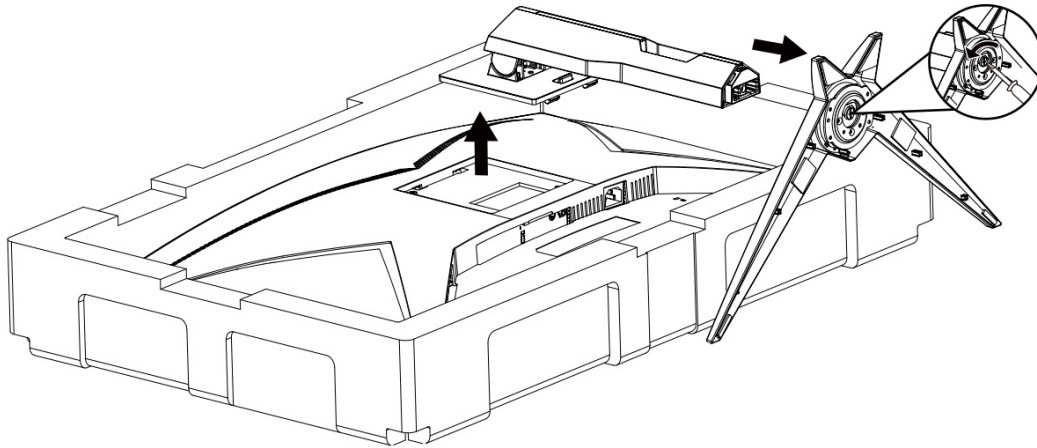
Setup Stand & Base

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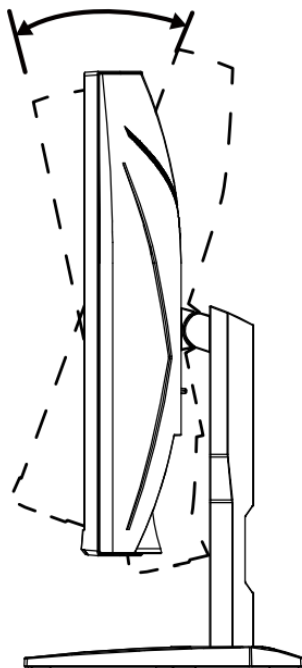
Setup:

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.
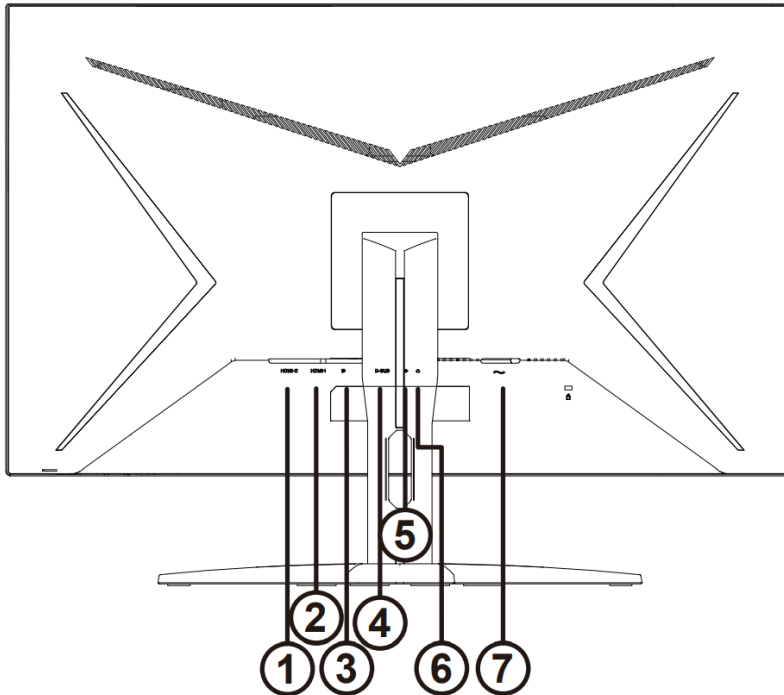
You are able to adjust the monitor as below:

-5° ~ 23°

NOTE:

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

Connecting the Monitor

Cable Connections In Back of Monitor and Computer:

1. HDMI-2
2. HDMI-1
3. DisplayPort
4. D-SUB
5. Audio in
6. Earphone
7. 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 Troubleshooting.

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

Adaptive-Sync function

1. Adaptive-Sync function is working with DP/HDMI

2. Compatible Graphics Card: Recommend list is as the below, also could be checked by visiting www.AMD.com

   1. Radeon™ RX Vega series

   2. Radeon™ RX 500 series

   3. Radeon™ RX 400 series

   4. Radeon™ R9/R7 300 series R9 370/X, R7 370/X, R7 265 except

   5. Radeon™ Pro Duo (2016)

   6. Radeon™ R9 Nano series

   7. Radeon™ R9 Fury series

   8. Radeon™ R9/R7 200 series (R9 270/X, R9 280/X except)

Adjusting

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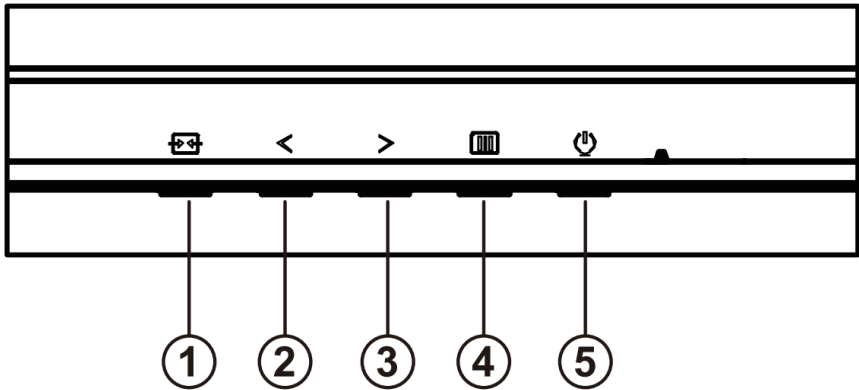
1	Source/Auto/Exit
2	Game Mode
3	Dial Point
4	Menu/Enter
5	Power

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.
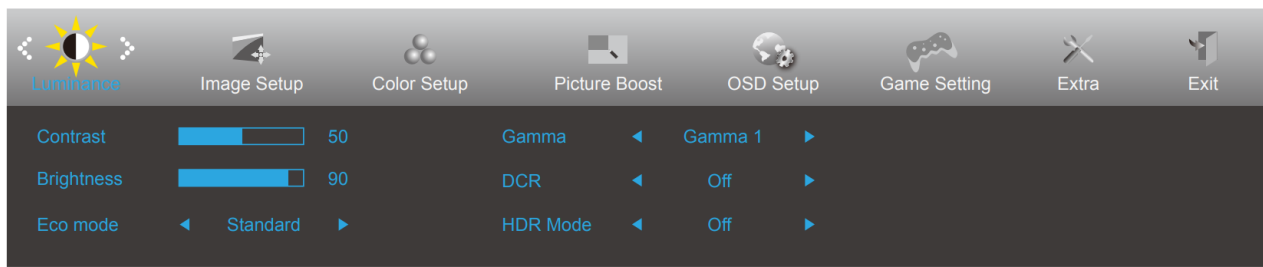

Source/Auto/Exit
When the OSD is closed, press Source/Auto/Exit button will be Source hot key function. When the OSD is closed, press Source/Auto/Exit button continuously about 2 second to do auto configure (Only for the models with D-Sub).

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. ECO modes (except Standard mode), DCR, DCB mode and Picture Boost, for these four states that only one state can exist.

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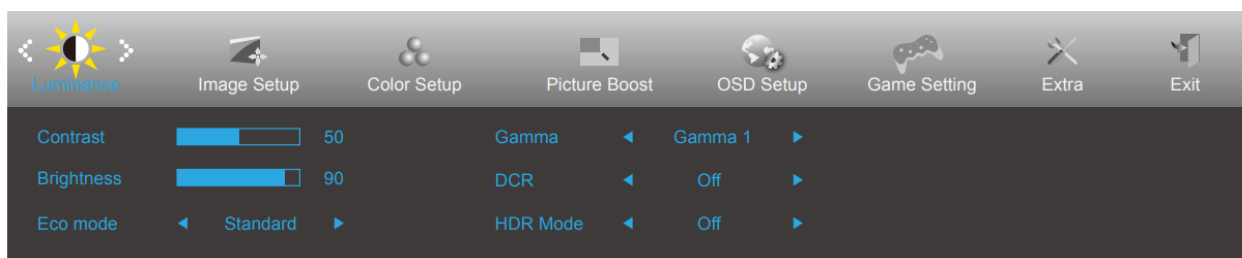
	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment
	Eco mode	Standard	✓	Standard Mode
		Text	T	Text Mode
		Internet	e	Internet Mode
		Game		Game Mode
		Movie		Movie Mode
		Sports		Sports Mode
		Reading	R	Reading Mode
	Gamma	Gamma1		Adjust to Gamma 1
		Gamma2		Adjust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

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

Image Setup

Clock	▬▬▬	50	H. Position	▬▬▬	50
Phase	▬▬▬	50	V. Position	▬▬▬	50
Sharpness	▬▬▬	50			
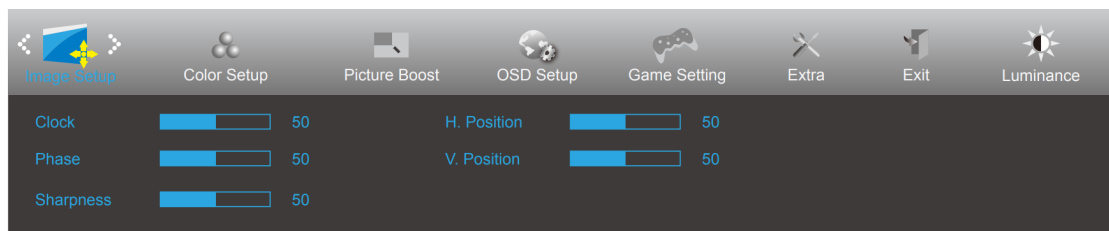
	Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
	Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise
	Sharpness	0-100	Adjust picture sharpness
	H. Position	0-100	Adjust the horizontal position of the picture.
	V. Position	0-100	Adjust the vertical position of the picture.

Color Setup

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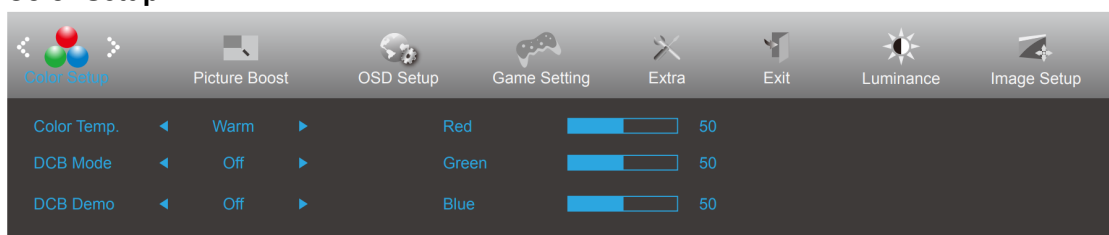
		Warm		Recall Warm Color Temperature from EEPROM.
		Normal		Recall Normal Color Temperature from EEPROM.
	Color Temp.	Cool		Recall Cool Color Temperature from EEPROM.
		sRGB		Recall SRGB Color Temperature from EEPROM.
		User		Restore Color Temperature from EEPROM.
		Full Enhance	On or Off	Disable or Enable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

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

Picture Boost

Bright Frame	◄ off ►	Brightness ▦ 50	H. Position ▭ 0
Frame Size	▦ 14	Contrast ▦ 50	V. Position ▭ 0
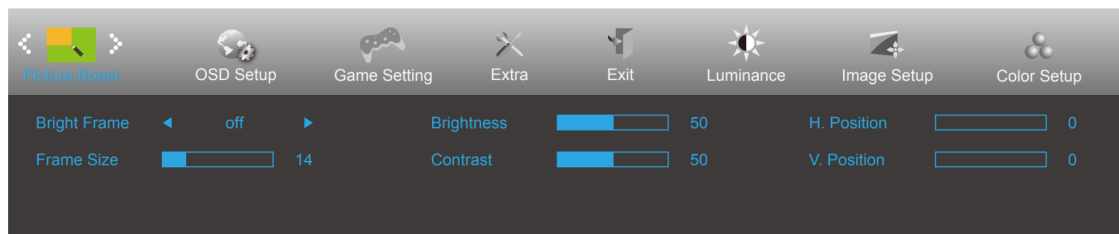
	Bright Frame	on or off	Disable or Enable Bright Frame
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V. position	0-100	Adjust Frame vertical Position

Note:

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 ►	H. Position ▦ 50	Transparence ▦ 25
Timeout	▦ 10	V. Position ▭ 0	Break Reminder ◄ Off ►
DP Capability	◄ 1.2 ►	Volume ▦ 50	Frame Counter ◄ Off ►

	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 selectD P1.2 for DP Capability; otherwise, please select DP1.1. Please be noted that only DP1.2 support Adaptive-Sync function
	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 th an 1hrs
	Frame Counter	Off / Right-up/ Right-Down / Left-Down / Left- Up	Display V frequency on the corner selected

Game Setting

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

Game Mode	◄ Off ►		Game Color	10		MBR	0
Shadow Control	50		LowBlue Mode ◄ Off ►			AMD FreeSync ◄ Off ►	
Low Input Lag	◄ Off ►		Overdrive ◄ Off ►				

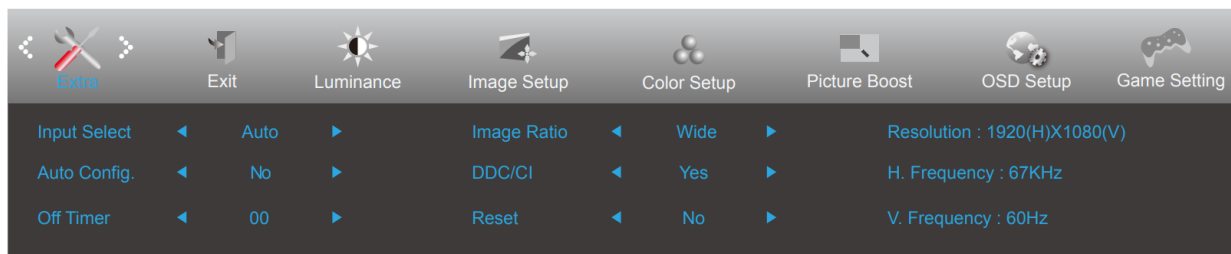|			
	Game Mode	FPS	For playing FPS (first Person Shooters) games.Improves dark theme black level details.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
		Racing	For playing Racing games, Provides fastest response time and high color saturation.
		Gamer 1	User's preference settings saved as Gamer 1.
		Gamer 2	User's preference settings saved as Gamer 2.
		Gamer 3	User's preference settings saved as Gamer 3.
		Off	No optimization by Smart image game
	Shadow Control	0-100	Shadow Control Default is 50, then end-user can adjustf rom 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 adjustingsaturation to get better picture.
	Low Blue Mode	Reading / Office/ Internet /Multimedia / Off	Decrease blue light wave by controlling color temperature.
	Low Input Lag	On/Off	Turn off frame buffer to decrease input lag
	Overdrive	Weak	Adjust the response time.
		Medium	
		Strong	
		Boost	
		Off	
	MBR	0 ~ 20	Adjust the Motion Blur Reduction.
	Adaptive-Sync	on or off	Disable or Enable Adaptive-Sync.Adaptive-Sync Run Reminder: When the Adaptive-Sync feature is enabled, there may be flashing in some game environments.

Note:

1. The function MBR and Overdrive Boost are available only when Adaptive-Sync is off and the vertical frequency is up to 75 Hz.
2. The screen brightness will be reduced when adjusting MBR or Over driver setting to Boost.
3. When "HDR Mode" under "Luminance" is set to "non-off", the items "Game Mode", "Shadow Control", "Game Color", "Low Blue Mode" cannot be adjusted.

Extra

Extra	Exit	Luminance	Image Setup	Color Setup	Picture Boost	OSD Setup	Game Setting
Input Select	◄ Auto ►		Image Ratio	◄ Wide ►		Resolution : 1920(H)X1080(V)	
Auto Config.	◄ No ►		DDC/CI	◄ Yes ►		H. Frequency : 67KHz	
Off Timer	◄ 00 ►		Reset	◄ No ►		V. Frequency : 60Hz	

	Input Select		Select Input Signal Source
	Auto Config.	Yes or No	Auto adjust the picture to default
	Off timer	0-24hrs	Select DC off time
	Image Ratio	Wide	Select image ratio for display.
		4:3	
		1:1	
		17" (4:3)	
		19" (4:3)	
		19" (5:4)	
		19"W (16:10)	
		21.5"W (16:9)	
		22"W (16:10)	
		23"W (16:9)	
		23.6"W (16:9)	
		24"W (16:9)	
		27"W (16:9)	
	DDC/CI	Yes or No	Turn ON/OFF DDC/CI Support
	Reset	Yes or No	Reset the menu to default

Exit
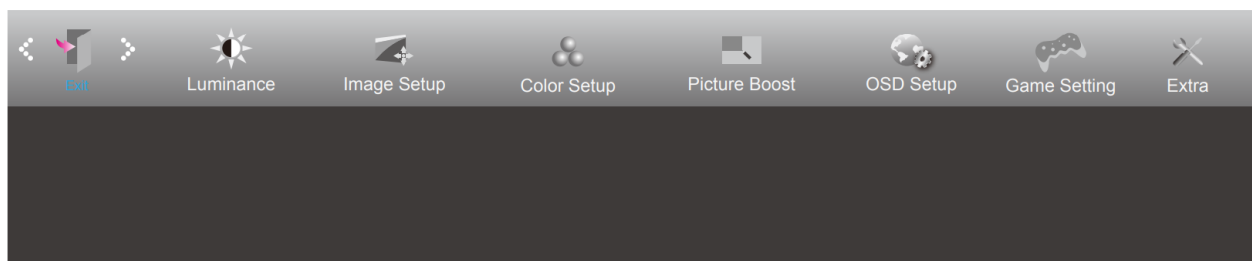
	Exit		Exit the main OSD

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	• 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 themonitor 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	C32G2AE		
	Driving system	TFT Color LCD		
	Viewable Image Size	80.1 cm diagonal		
	Pixel pitch	0.36375mm(H) x 0.36375mm(V)		
	Video	HDMI Interface & DP Interface & VGA Interface		
	Separate Sync.	H/V TTL		
	Display Color	16.7M Colors		
Others	Horizontal scan range	30k-160kHz(D-SUB)30k-200kHz(HDMI, DP)		
	Horizontal scan Size(Maximum)	698.4mm		
	Vertical scan range	48-144Hz(D-SUB)48-165Hz(HDMI, DP)		
	Vertical Scan Size(M aximum)	392.85mm		
	Optimal preset resolution	1920×1080@60Hz		
	Max resolution	1920×1080@60Hz(D-SUB)1920×1080@165Hz(HDMI, DP)		
	Plug & Play	VESA DDC2B/CI		
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS		
	Power Source	100-240V~, 50/60Hz		
	Power Consumption	Typical(default brightness and contrast)		40W
		Max. (brightness = 100, contrast =100)		≤65W
		Power saving		≤0.5W
Physical Characteristics	Connector Type	VGA/HDMI/DP/Earphone out/Audio in		
	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
VGA	640×480@67Hz	35	66.667
VGA	640×480@72Hz	37.861	72.809
VGA	640×480@75Hz	37.5	75
VGA	640×480@100Hz	51.08	99.769
VGA	640×480@120Hz	61.91	119.518
DOS MODE	720×400@70Hz	31.469	70.087
DOS MODE	720×480@60Hz	29.855	59.710
SD	720×576@50Hz	31.25	50
SVGA	800×600@56Hz	35.156	56.25
SVGA	800×600@60Hz	37.879	60.317
SVGA	800×600@72Hz	48.077	72.188
SVGA	800×600@75Hz	46.875	75
SVGA	800×600@100Hz	63.684	99.662
SVGA	800×600@120Hz	76.302	119.97
SVGA	832×624@75Hz	49.725	74.551
XGA	1024×768@60Hz	48.363	60.004
XGA	1024×768@70Hz	56.476	70.069
XGA	1024×768@75Hz	60.023	75.029
XGA	1024×768@100Hz	81.577	99.972
XGA	1024×768@120Hz	97.551	119.989
WXGA+	1440×900@60Hz	55.935	59.887
SXGA	1280×1024@60Hz	63.981	60.02
SXGA	1280×1024@75Hz	79.975	75.025
HD	1280×720@50Hz	37.071	49.827
HD	1280×720@60Hz	45	60
HD	1280×1080@60Hz	67.173	59.976
CVT	1680×1050@60Hz	64.674	59.883
Full HD	1920×1080@60Hz	67.5	60
Full HD	1920×1080@100Hz	113.21	99.93
Full HD	1920×1080@120Hz	137.26	119.982
Full HD	1920×1080@144Hz	158.1	144
Full HD	1920×1080@165Hz	183.154	165

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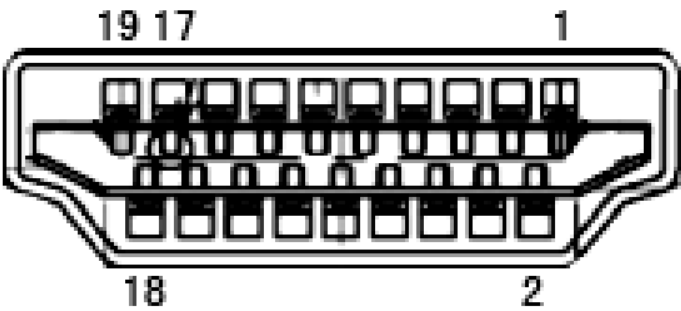
Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1.	TMDS Data 2+	9.	TMDS Data 0-	17.	DDC/CEC Ground
2.	TMDS Data 2 Shield	10.	TMDS Clock +	18.	+5V Power
3.	TMDS Data 2-	11.	TMDS Clock Shield	19.	Hot Plug Detect
4.	TMDS Data 1+	12.	TMDS Clock-		
5.	TMDS Data 1Shield	13.	CEC		
6.	TMDS Data 1-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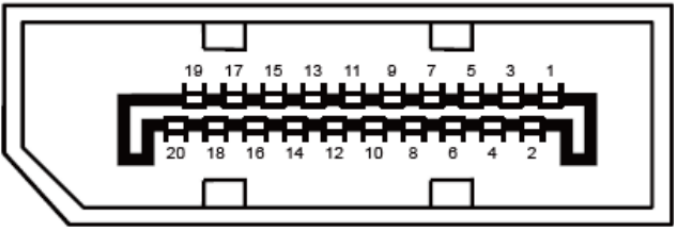
20-Pin Color Display Signal Cable

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
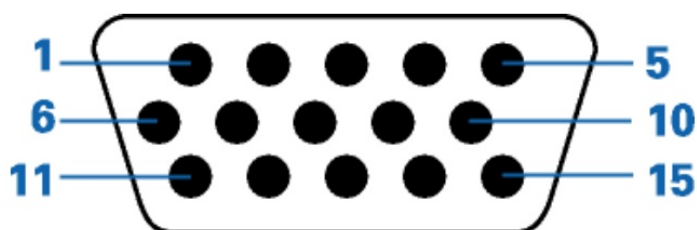
15-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name
1	Video-Red	9	+5V
2	Video-Green	10	Ground
3	Video-Blue	11	N.C.
4	N.C.	12	DDC-Serial data
5	Detect Cable	13	H-sync
6	GND-R	14	V-sync
7	GND-G	15	DDC-Serial clock
8	GND-B		

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.

Documents / Resources

AOC C32G2AE LCD Monitor [pdf] User Manual
C32G2AE LCD Monitor, C32G2AE, LCD Monitor, Monitor

References

- **AMD ‖ together we advance_AI**
- **Homepage | AOC Monitors**
- **Manual-Hub.com - Free PDF manuals!**
- **User Manual**