



AOC CU34G2 LCD Monitor User Manual

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AOC CU34G2 LCD Monitor



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.

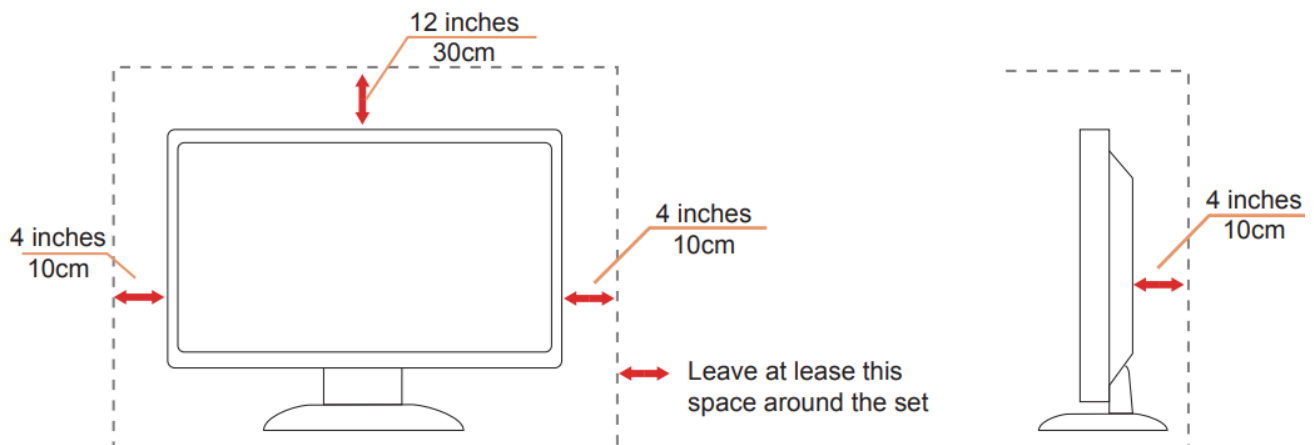
Power

- 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:



- Please purchase a suitable wall mount to avoid the lack of distance between the back signal cable and the wall.

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.

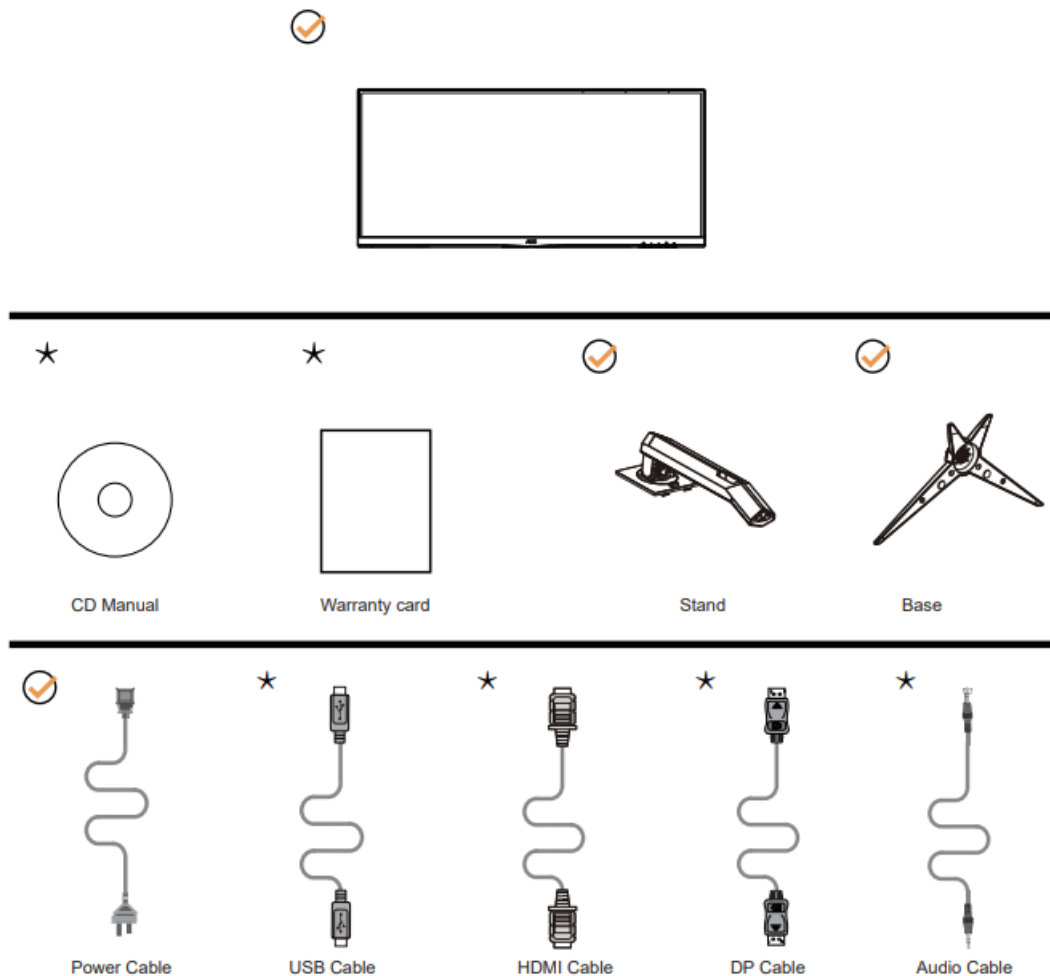


Other

- 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

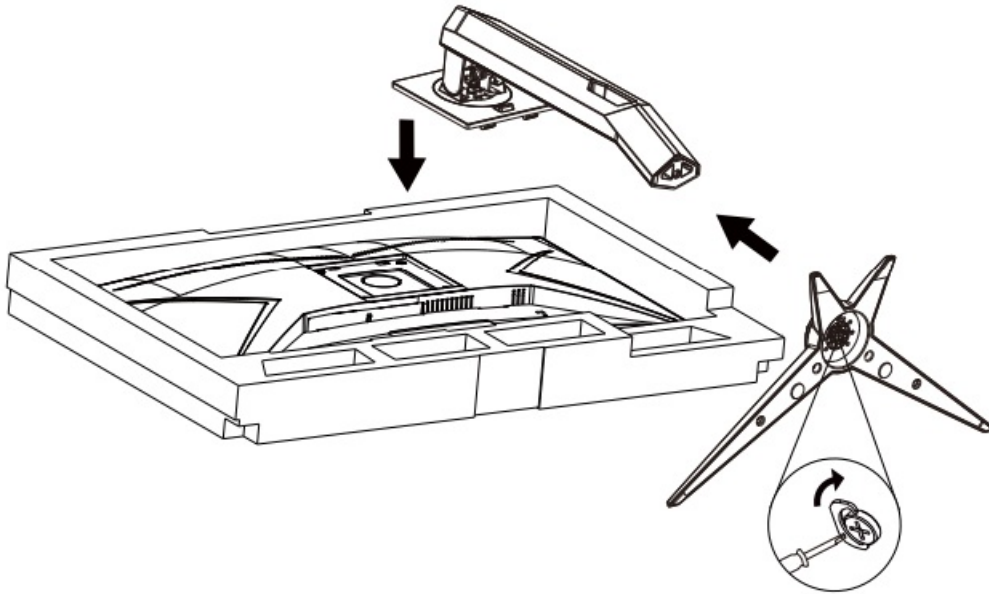


- Not all signal cables (HDMI / DP / USB /Audio cables) will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

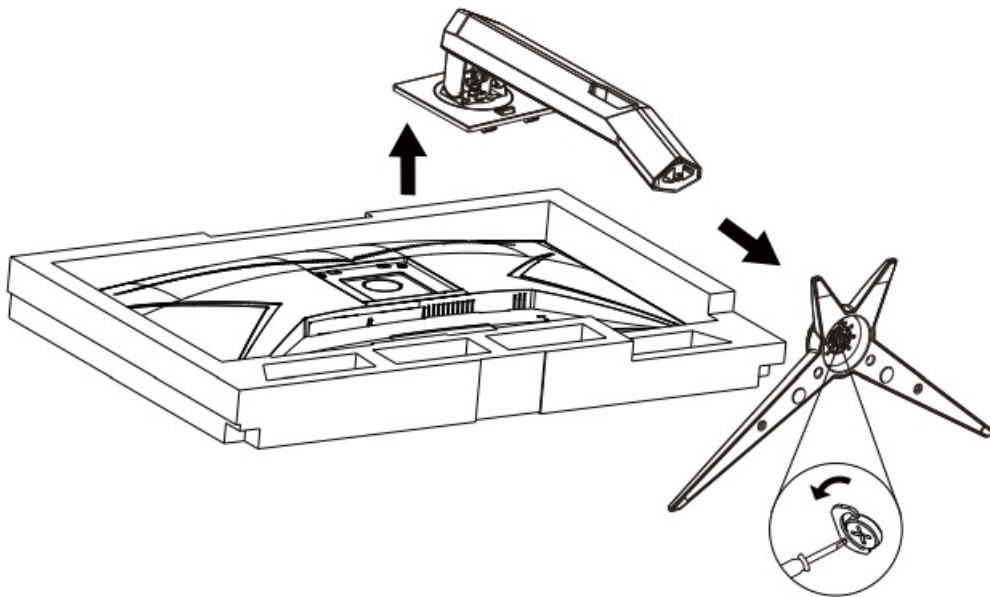
Setup Base

- Please set up or remove the base by following the steps below.
- Please place the monitor on a soft and flat surface to prevent scratches.

Setup:



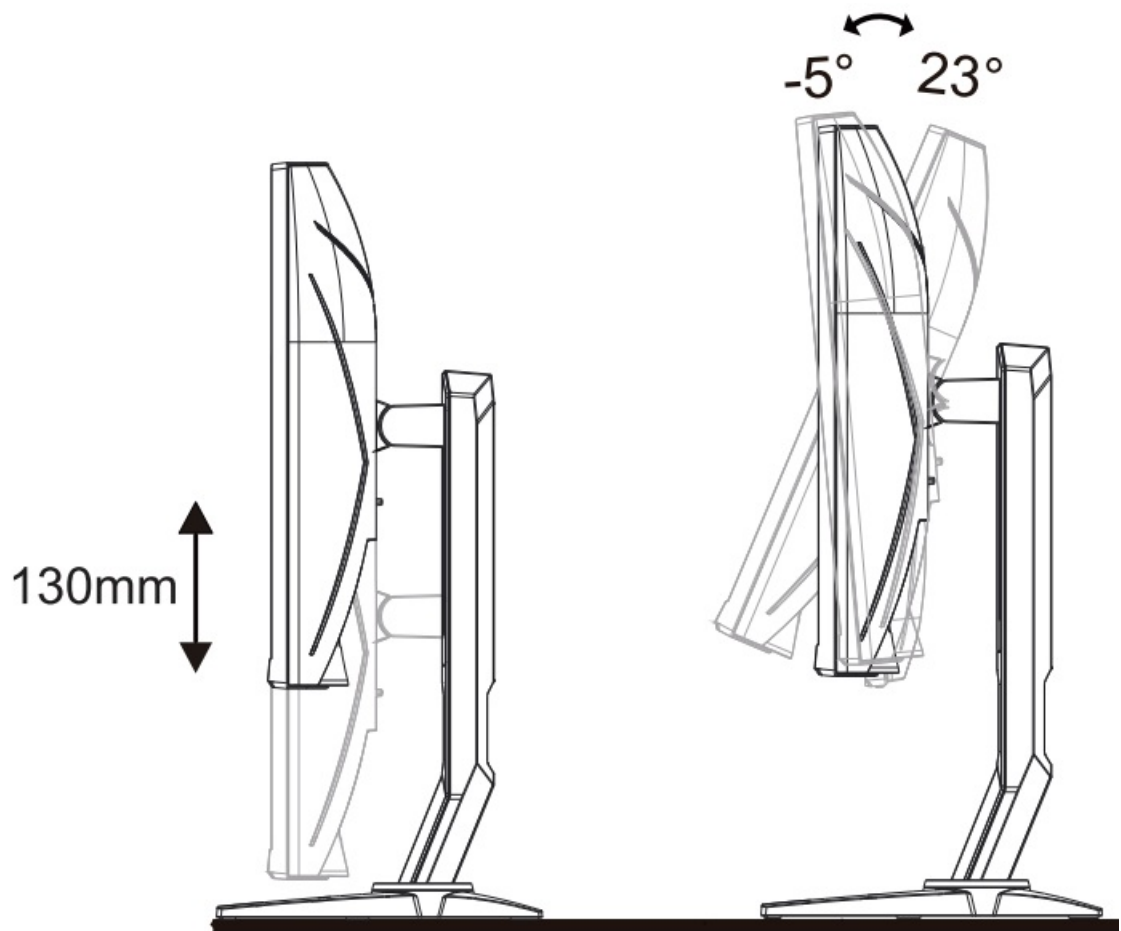
Remove:



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:



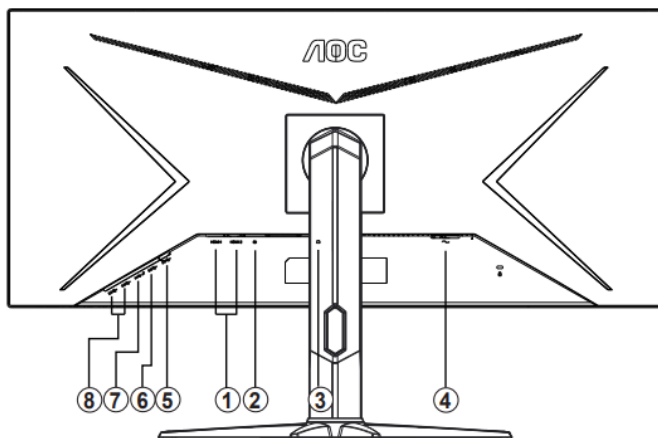
NOTE:

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

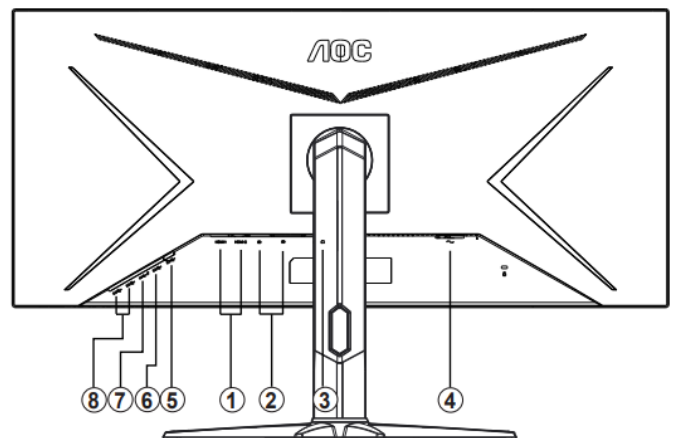
Connecting the Monitor

Cable Connections In Back of Monitor and Computer:

CU34G2



CU34G2X



1. HDMI
2. DisplayPort
3. Earphone out
4. Power
5. USB-PC upstream
6. USB 3.2 Gen 1

7. USB3. 2 Gen1+Quick Charging
8. USB 3.2 Gen 1

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.
6. 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.

Freesync function

1. Freesync function is working with DP1/DP2/HDMI1/HDMI2
2. Compatible Graphics Card: Recommend list is as the below, also could be checked by visiting www.AMD.com

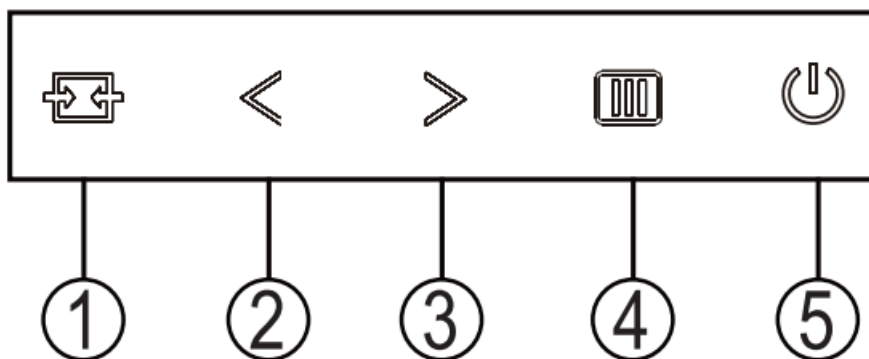
- **MD Radeon™** RX 480
- **AMD Radeon™** RX 470
- **AMD Radeon™** RX 460

Radeon Pro Duo

- AMD Radeon R9 300 Series
- AMD Radeon R9 Fury X
- AMD Radeon R9 360
- AMD Radeon R7 360
- AMD Radeon R9 295X2
- AMD Radeon R9 290X
- AMD Radeon R9 290
- AMD Radeon R9 285
- AMD Radeon R7 260X
- AMD Radeon R7 260

Adjusting

Hotkeys



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

Source/Exit

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

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.

Dial Point/>

- When there is no OSD, press Dial Point button to active Dial Point menu, and then press "<" or ">" to set Dial Point on or off.

Menu/Enter

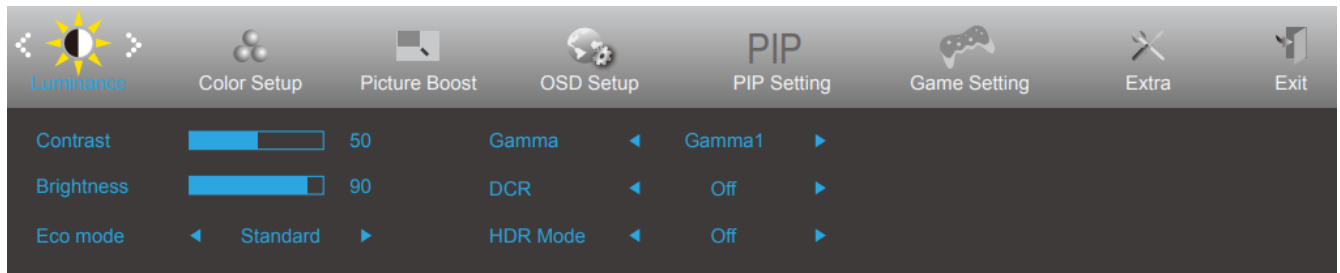
- Press to display the OSD or confirm the selection.








Power

- Turn on/off the monitor.

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, and press Left or Right to navigate through the sub-menu functions. Once the desired function is highlighted, press the  MENU button to activate it.
3. Press Left or 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 the 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 the  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 screen size is 4:3 or input signal resolution is native resolution, the item of “Image Ratio” is disabled.
3. One of DCR, Color Boost and Picture Boost functions is activated, the other two function s are turned off accordingly.

Luminance

Contrast

50

Gamma

Gamma1

Brightness

90

DCR


Off











Eco mode

Standard

HDR Mode

Off



	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 (CU34G2X)	Off		Adjust HDR Mode Note: When HDR is detected, the HDR option is displayed for adjustment. When HDR is not detected, the HDR Mode option is displayed for adjustment.
		DisplayHDR		
		HDR Picture		
		HDR Movie		
		HDR Game		
	HDR Mode	Off		Adjust HDR Mode
		HDR Picture		
		HDR Movie		
HDR Game				

Note:
The function MBR and Overdrive Boost are available only when Adaptive-Sync is off and the vertical frequency is up to 75 Hz.

Color Setup

Color Temp.

Warm

Red

50

DCB Mode

Off

Green

50

DCB Demo

Off

Blue

50

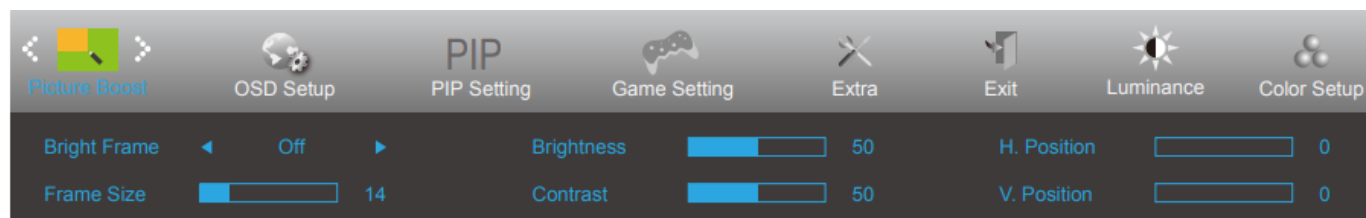
		Warm		Recall Warm Color Temperature from EEPROM.
--	--	------	--	--




Color Temp.	Normal		Recall Normal Color Temperature from EEPROM.
	Cool		Recall Cool Color Temperature from EEPROM.
	sRGB		Recall SRGB Color Temperature from EEPROM.
	User		Restore Color Temperature from EEPROM.
DCB Mode	Full Enhance	On or Off	Disable or Enable Full Enhance Mode
	Nature Skin	On or Off	Disable or Enable Nature Skin 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
	Off		Disable DCB 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.

Picture Boost

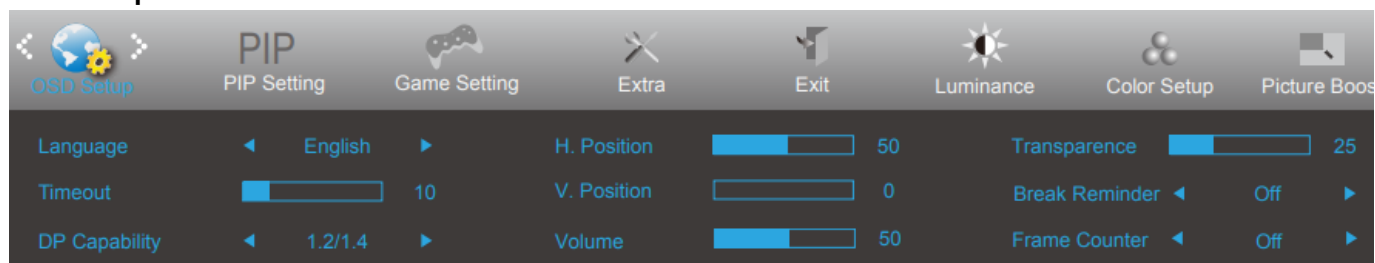



	Bright Frame	On or Off	Disable or Enable Bright Frame
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V. position	0-100	Adjust Frame Vertical Position

Note:

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

OSD Setup







Language		Select the OSD language
Timeout	5-120	Adjust the OSD Timeout
DP Capability	1.1/1.2 (CU34G2) 1.1/1.2/1.4 (CU34G2X)	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 (Pause- Erinnerung)	On (Ein) / Off (Aus)	Break reminder if the user continuously work for more than 1 hrs
Frame Counter (CU34G2)	Off / Right-Up / Right-Down / Left-Down / Left-Up	Display V frequency on the corner selected.


Notes:


If the DP video content supports DP1.2, please select DP1.2 for DP Capability; otherwise, please select DP1.1.


PIP Setting


Game Setting


Extra


Exit

Luminance

Color Setup

Picture Boost

OSD Setup

PIP Setting

Game Mode ◀ Off ▶

Shadow Control ██████████ 50

Low Input Lag ◀ On ▶

Game Color ██████████ 10

LowBlue Mode ◀ Off ▶

Overdrive ◀ Off ▶

Frame Counter ◀ Off ▶

MBR ██████████ 0

Adaptive-Sync ◀ On ▶

PIP	PIP Setting	Off / PIP / PBP	Off
	Main Source	Follow Input Select Content	HDMI1
	Sub Source	Follow Input Select Content	DP (CU34G2) HDMI1 (CU34G2X)
	Size	Small, Middle, Large	Small
	Position	Right-Up / Right-Down / Left-Down / Left-Up	Right-Up
	Audio	On / Off	Off
	Swap		Swap the screen source.

CU34G2:

Sub in	Ma	HDMI1	HDMI2	DP
HDMI1		X	X	V
HDMI2		X	X	V
DP		V	V	X

Game Setting

Game Setting

Extra

Exit

Luminance

Color Setup

Picture Boost

OSD Setup

PIP Setting

Game Mode

Shadow Control

Low Input Lag

Game Color

LowBlue Mode

Overdrive

Frame Counter

MBR

Adaptive-Sync

Off

50

On

10


Off

Off

Off

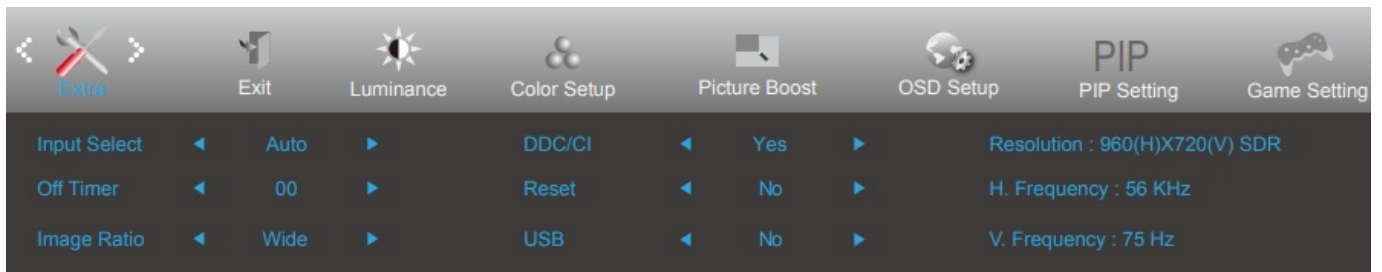
Off


On

	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.
		Gamer1	User's preference settings saved as Gamer 1.
		Gamer2	User's preference settings saved as Gamer 2.
		Gamer3	User's preference settings saved as Gamer 3.

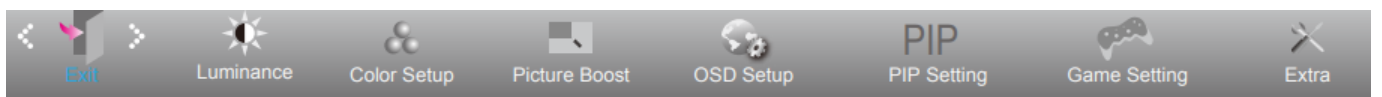
Shadow Control	0-100	<p>Shadow Control Default is 50, then end-user can adjust from 50 to 100 or 0 to increase contrast for clear picture.</p> <p>1. If picture is too dark to be saw the detail clearly, adjusting from 50 to 100 for clear picture.</p> <p>2. If picture is too white to be saw the detail clearly, adjusting from 50 to 0 for clear picture.</p>
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.
LowBlue Mode	Reading / Office / Internet / Multimedia / Off	Decrease blue light wave by controlling color temperature.
Overdrive	Weak	<p>Adjust the response time.</p> <p>(Boost can only enable in Freesync off mode)</p>
	Medium	
	Strong	
	Boost (Motion picture response time 1ms)	
	Off	
Frame Counter (CU34G2X)	Off / Right-Up / Right-Down / Left-Down / Left-Up	Display vertical scanning frequency
MBR	0-20	MBR (Motion Blur Reduction) will provide 0 – 20 levels for adjusting visible motion blur.
Adaptive-Sync	On/Off	Adjust the Adaptive-Sync


Extra



	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 / 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)	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
	USB (CU34G2)	On/Off	

Exit



	Exit		Exit the main OSD
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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.

<p>No images on the screen</p>	<p>Is the power cord connected properly?</p> <p>Check the power cord connection and power supply. Is the cable connected correctly?</p> <p>(Connected using the HDMI cable) Check the HDMI cable connection. (Connected using the DP cable) Check the DP cable connection.</p> <p>* HDMI/DP input is not available on every model.</p> <p>If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.</p> <p>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.</p> <p>(Refer to the Setting the Optimal Resolution)</p> <p>If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.</p> <p>Can you see "Input Not Supported" on the screen?</p> <p>You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.</p> <p>Adjust the maximum resolution and frequency that the monitor can handle properly.</p> <p>Make sure the AOC Monitor Drivers are installed.</p>
<p>Picture Is Fuzzy & Has Ghosting Shadowing Problem</p>	<p>Adjust the Contrast and Brightness Controls. Press to auto adjust.</p> <p>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.</p>

<p>Picture Bounces, Flickers Or Wave Pattern Appears In The Picture</p>	<p>Move electrical devices that may cause electrical interference as far away from the monitor as possible.</p> <p>Use the maximum refresh rate your monitor is capable of at the resolution you are using.</p>
<p>Monitor Is Stuck In Active Off - Mode"</p>	<p>The Computer Power Switch should be in the ON position.</p> <p>The Computer Video Card should be snugly fitted in its slot.</p> <p>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.</p> <p>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.</p>
<p>Missing one of the primary colors (RED, GREEN, or BLUE)</p>	<p>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.</p>

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.

Specification

General Specification

Panel	Model name	CU34G2	CU34G2X
	Driving system	TFT Color LCD	
	Viewable Image Size	86.36 cm diagonal	
	Pixel pitch	0.23175mm(H) x 0.23175mm(V)	
	Video	HDMI interface & DP Interface	
	Display Color	16.7M Colors	
	Horizontal scan range	30-160KHZ(HDMI/DP)	30-170KHZ(HDMI) 30-220KHZ(DP)
	Horizontal scan Size(Maximum)	797.22mm	
	Vertical scan range	48-100HZ(HDMI/DP)	48-100HZ(HDMI) 48-144HZ(DP)
	Vertical Scan Size(Maximum)	333.72mm	
	Optimal preset resolution	3440×1440@60Hz	

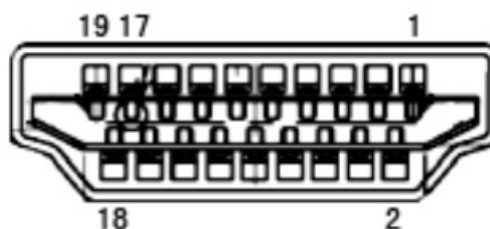
Others				
	Max resolution		3440×1440@100Hz (HDMI/DP)	3440×1440@144Hz (DP)
	Plug & Play		VESA DDC2B/CI	
	Input Connector		HDMI/DP	
	Power Source		100-240V~, 50/60Hz,1.5A	
	Power Consumption	Typical (default brightness and contrast)	55W	67W
		Max. (brightness = 100, contrast =100)	108W	110W
		Power saving	≤0.5W	≤0.5W
Physical Characteristics	Connector Type		HDMI/DP/USB/Earphone out	
	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~ 5000m (0~ 16404ft)
			Non-Operating	0~ 12192m (0~ 40000ft)

Preset Display Modes

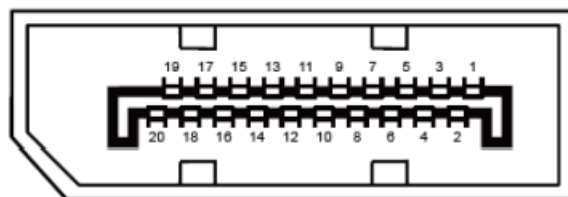
STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)
VGA	640×480@60Hz	31.469	59.94
	640×480@72Hz	37.861	72.809
	640×480@75Hz	37.5	75
SVGA	800×600@60Hz	37.879	60.317
	800×600@72Hz	48.077	72.188
	800×600@75Hz	46.875	75
XGA	1024×768@60Hz	48.363	60.004
	1024×768@70Hz	56.476	70.069
	1024×768@75Hz	60.023	75.029

SXGA	1280×1024@60Hz	63.981	60.020
	1280×1024@75Hz	79.976	75.025
WXGA+	1440×900@60Hz	55.935	59.887
	1440×900@60Hz	55.469	59.901
WSXGA	1680×1050@60Hz	65.290	59.954
	1680×1050@60Hz	64.674	59.883
HD	1920×1080@60Hz	67.5	60
QHD	2560×1080@60HZ	66	60
	2560×1080@50HZ	56.25	50
	2560×1080@120HZ	150	120
WQHD	3440×1440@30HZ	44.408	29.985
	3440×1440@60HZ	89.819	59.973
	3440×1440@100HZ	150.972	99.982
	3440X1440@120(CU34G2X DP Only)	181.2	120
	3440X1440@144(CU34G2X DP Only)	214.56	144
IBM MODES			
DOS	640×350@70Hz	31.469	70.087
	720×400@70Hz	31.469	70.087
MAC MODES			
VGA	640×480@67Hz	35.000	66.667
SVGA	832×624@75Hz	49.725	74.551
XGA	1024×768@75Hz	60.241	74.927

Pin Assignments



Pin N o.	Signal Name	Pin N o.	Signal Name	Pin N o.	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

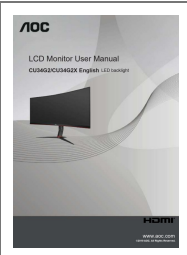
Pin No.	Signal Name	Pin No.	Signal Name
1	ML_Lane 3 (n)	11	GND
2	GND	12	ML_Lane 0 (p)
3	ML_Lane 3 (p)	13	CONFIG1
4	ML_Lane 2 (n)	14	CONFIG2
5	GND	15	AUX_CH(p)
6	ML_Lane 2 (p)	16	GND
7	ML_Lane 1 (n)	17	AUX_CH(n)
8	GND	18	Hot Plug Detect
9	ML_Lane 1 (p)	19	Return DP_PWR
10	ML_Lane 0 (n)	20	DP_PWR

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.
- www.aoc.com
- ©2019 AOC. All Rights Reserved.

Documents / Resources

	<p>AOC CU34G2 LCD Monitor [pdf] User Manual CU34G2 LCD Monitor, CU34G2, LCD Monitor, Monitor</p>
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References

-  [AMD | together we advance](#)
-  [AOC](#)