

LCD Monitor User Manual

CQ34G2 English LED backlight



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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:

V

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.

Δ

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.

 Λ 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.

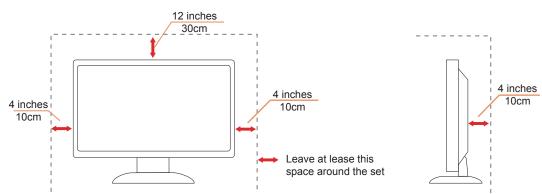
Never push any object into the slot on the monitor cabinet. It could damage circuit parts causing a fire or electric shock. Never spill liquids on the monitor.

1 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

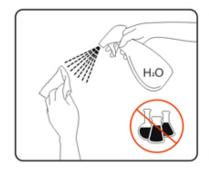
Please purchase a suitable wall mount to avoid the lack of distance between the back signal cable and the wall.

Cleaning

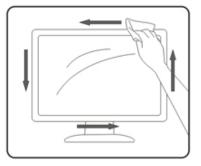
Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

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.

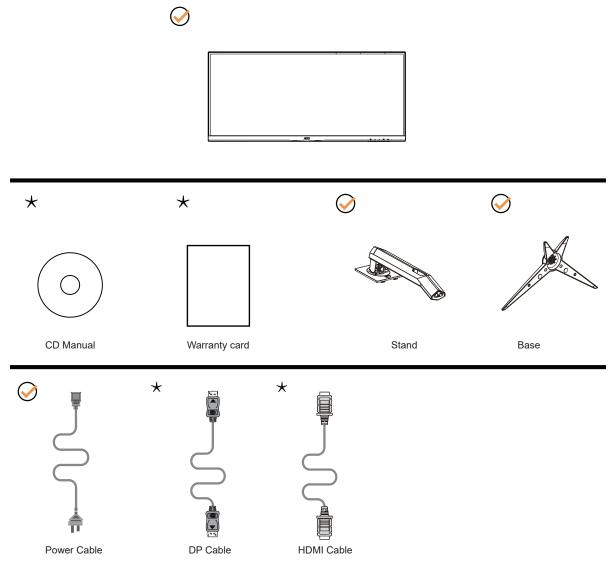
A Make sure that the ventilating openings are not blocked by a table or curtain.

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

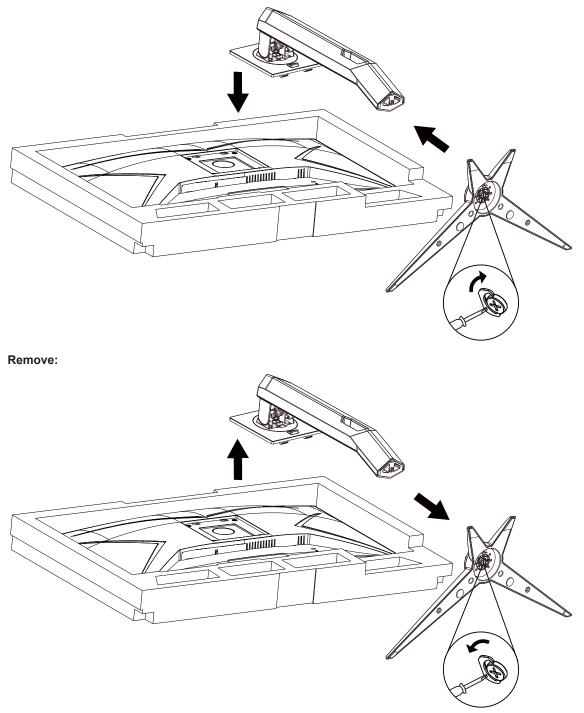


Not all signal cables (HDMI / DP cables) will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

Setup Base

Please setup or remove the base following the steps as below. Please place the monitor on a soft and flat surface to prevent the scratch.

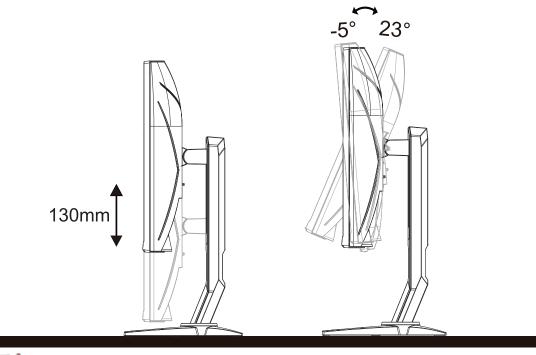
Setup:



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:

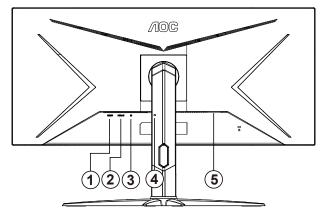


NOTE:

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:



- 1. HDMI-1
- 1. HDMI-2
- 2. DisplayPort
- 3. Earphone out
- 4. 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.

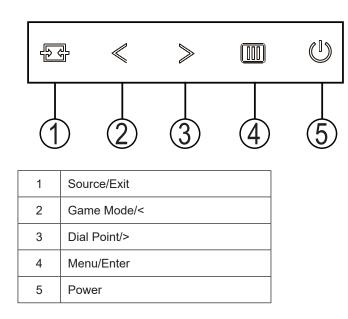
To protect equipment, always turn off the PC and LCD monitor before connecting.

Freesync function

- 1. Free-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
- • Radeon™ RX Vega series
- Radeon™ RX 500 series
- • Radeon™ RX 400 series
- • Radeon™ R9/R7 300 series (R9 370/X, R7 370/X, R7 265 except)
- • Radeon™ Pro Duo (2016)
- • Radeon™ R9 Nano series
- • Radeon™ R9 Fury series
- • Radeon™ R9/R7 200 series (R9 270/X, R9 280/X except)

Adjusting

Hotkeys



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.

<	Color Setup	Picture Boost	OSD Setup	Game Setting)× Extra	Exit
Contrast	50					
Brightness	90	DCR	 ● Off 			
Eco mode		HDR Mode	 ● Off 			

- 1. Press the III MENU-button to activate the OSD window.
- Press < Left or > Right to navigate through the functions. Once the desired function is highlighted, press the III MENU-button to activate it, press < Left or > Right to navigate through the sub-menu functions. Once the desired function is highlighted, press IIII 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.
- OSD Lock Function: To lock the OSD, press and hold the III 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 III 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 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

< to state the state of the sta	Color Setup	Picture Boost	OSD Setup	Game Setting) Extra	Exit
Contrast	50					
Brightness	90	DCR	 ♦ Off 			
Eco mode		HDR Mode	 ● Off 			

	Contrast	0-100		Contrast from Digital-register.	
	Brightness	0-100		Backlight Adjustment	
		Standard	V	Standard Mode	
		Text	Т	Text Mode	
		Internet	E	Internet Mode	
	Eco mode	Game		Game Mode	
		Movie	0	Movie Mode	
		Sports 🎢		Sports Mode	
- Q -		Reading Reading		Reading Mode	
		Gamma1		Adjust to Gamma 1	
	Gamma	Gamma2		Adjust to Gamma 2	
		Gamma3		Adjust to Gamma 3	
	202	Off		Disable dynamic contrast ratio	
	DCR	On		Enable dynamic contrast ratio	
		Off			
	HDR Mode	HDR Picture		Adjust HDR Mode	
		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 Setup	Picture Boo	ost	OSD Setup	Game Setting) Extra	Exit	Luminance
Color Temp.							
DCB Mode	Off						
DCB Demo	Off						

		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
		Green Field	On or Off	Disable or Enable Green Field Mode
	DCB 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

<	OSD Set	Game Setting) Extra	Exit	- 🄆 Luminance	Color Setup
Bright Frame	Off					0
Frame Size						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.

OSD Setup



Language		Select the OSD language
Timeout	5-120	Adjust the OSD Timeout
DP Capability	1.1/1.2	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		Break reminder if the user continuously work for
(Pause-	On (Ein) / Off (Aus)	more than 1hrs
Erinnerung)		

Notes:

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

Game Setting

K 🕬 > Game Setting	X Extra		r Setup Picture Boost OSD Setup
Game Mode Shadow Control Low Input Lag	 Off 50 <	Game Color Game Color LowBlue Mode Grif O Cverdrive Grif	10 Adaptive-Sync On ► ► Frame Counter Off ► ► MBR 0
	Game Mode	Off FPS RTS Racing Gamer1 Gamer2	 No optimization by Smart image game For playing FPS (first Person Shooters) games. Improves dark theme black level details. For playing RTS (Real Time Strategy). Improves the image quality. For playing Racing games, Provides fastest response time and high color saturation. User's preference settings saved as Gamer 1. User's preference settings saved as Gamer 2.
	Shadow Control	Gamer3 0-100	 User's preference settings saved as Gamer 3. 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 to 0 for clear picture.
	Low input Lag Game Color	On/Off	Turn off frame buffer to decrease input lag Game Color will provide 0-20 level for adjusting acturation to get better
	LowBlue Mode	0-20 Reading / Office / Internet / Multimedia / Off	for adjusting saturation to get better picture. Decrease blue light wave by controlling color temperature.
		Weak	
	Overdrive	Medium Strong	Adjust the response time. (Boost can only enable in Freesync
		Boost	off mode)
		Off	
	Adaptive-Sync	On/Off	Adjust the Adaptive-Sync.
	Frame Counter	Off / Right-up / Right-Down / Left- Down / Left-Up	Display V frequency on the corner selected MBR (Motion Blur Reduction) will
	MBR	0-20	provide 0 – 20 levels for adjusting visible motion blur.

Extra

< 🔀 >	Exit	Luminance	Color Set	Picture Boost	OSD Setup	Game Setting
Input Select		DDC/CI				
Off Timer					H. Frequency : 56 KHz	
Image Ratio						

	Input Select		Select Input Signal Source
	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

Exit

< 🏹 > Exit	Luminance	Color Setup	Picture Boost	OSD Setup	Game Setting	X Extra

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.				
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 HDMI cable) Check the HDMI cable connection. (Connected using the DP cable) Check the DP cable connection. * 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.				
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

	Model name		CQ34G2		
Panel	Driving system		TFT Color LCD		
	Viewable Image Size		86.36 cm diagonal		
	Pixel pitch		0.309mm(H) x 0.309mm(V)		
	Video		HDMI Interface & DP Interface		
	Display Color		16.7M Colors		
	Horizontal sca	n range	30-99KHZ		
	Horizontal sca	n Size(Maximum)	797.184mm		
	Vertical scan ra	ange	48-75Hz		
	Vertical Scan S	Size(Maximum)	333.72mm		
	Optimal preset	resolution	2560x1080@60Hz		
	Max resolution		2560x1080@60Hz		
Others	Plug & Play		VESA DDC2B/CI		
	Input Connector		HDMI/DP		
	Power Source		100-240V~, 50/60Hz,1.5A		
	Power Consumption	Typical (default brightness and contrast)	34W		
		Max. (brightness = 100, contrast =100)	≤53W		
		Power saving	≤0.5W		
Physical	Connector Typ	e	HDMI/DP/Earphone out		
Characteristics	Signal Cable Type		Detachable		
	Temperature		Operating	0°~ 40°	
Environmental			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)	

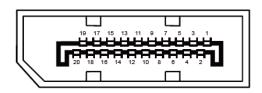
Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)	
	640x480@60Hz	31.469	59.94	
VGA	640x480@72Hz *	37.861	72.809	
	640x480@75Hz	37.5	75	
	800x600@56Hz	35.156	56.25	
SVGA	800x600@60Hz	37.879	60.317	
SVGA	800x600@72Hz *	48.077	72.188	
	800x600@75Hz	46.875	75	
	1024x768@60Hz	48.363	60.004	
XGA	1024x768@70Hz	56.476	70.069	
	1024x768@75Hz	60.023	75.029	
SXGA	1280x1024@60Hz	63.981	60.02	
SXGA	1280x1024@75Hz	79.976	75.025	
	1440x900@60Hz	55.935	59.887	
WXGA+	1440x900@60Hz	55.469	59.901	
	1680x1050@60Hz	65.29	59.954	
WSXGA -	1680x1050@60Hz	64.674	59.883	
FHD	1920x1080@60Hz	67.5	60	
WOUD	2560x1080@60Hz	67.173	59.976	
WQHD	2560X1080@75Hz	83.915	74.991	
·	IBM M	ODES		
DOG	640x350@70Hz *	31.469	70.087	
DOS -	720x400@70Hz *	31.469	70.087	
· · · ·	MAC M	ODES		
VGA	640x480@67Hz	35	66.667	
SVGA	832x624@75Hz *	49.725	74.551	
XGA	1024x768@75Hz	60.241 74.927		

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.