ЛОС



LCD Monitor User Manual

Q34E2A

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Safety

National Conventions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:



NOTE: A NOTE indicates important information that helps you make better use of your computer system.



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.



Power

The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.

A 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.

A 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.

1 To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 5A.

A 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.

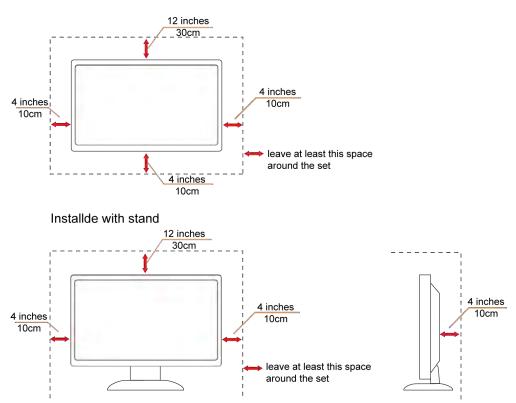
Never push any object into the slot on the monitor cabinet. It could damage circuit parts causing a fire or electric shock. Never spill liquids on the monitor.

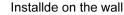
🕂 Do not place the front of the product on the floor.

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:







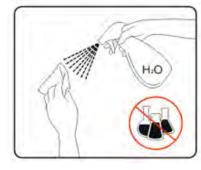
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Cleaning

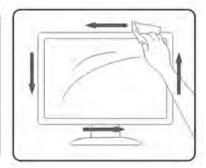
Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

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

1 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.

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

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

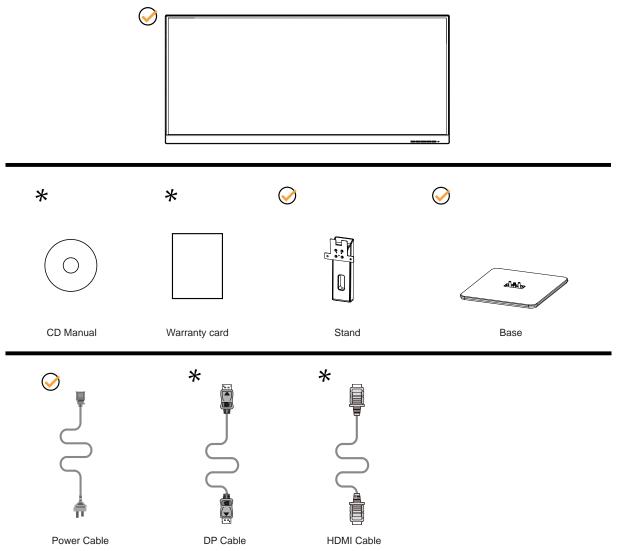
1 The power cords shall be safety approved. For Germany, it shall be H03VV-F, 3G, 0.75 mm2, or better. For other countries, the suitable types shall be used accordingly.

Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the equalizer to Δ maximum increases the earphones and headphones output voltage and therefore the sound pressure level.



Setup

Contents in Box



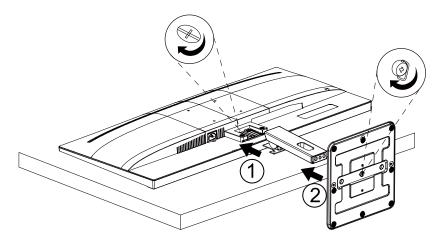
Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.



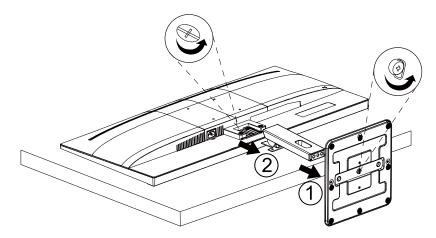
Setup Stand & Base

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

Setup:



Remove:

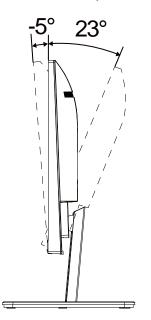




Adjusting Viewing Angle

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:

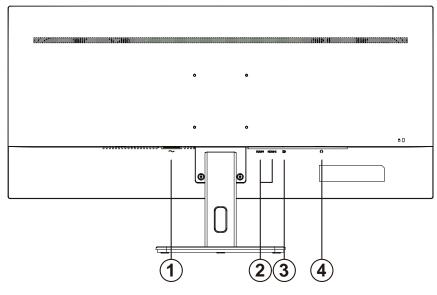


Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.



Connecting the Monitor

Cable Connections In Back of Monitor and Computer:



- 1. Power
- 2. HDMI
- 3. DP
- 4. Earphone

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
- 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

E	₹ <				
(1		2) (3	3) (4 (5
1	Source/Exit				
2	Clear Visior	ח/<			
3	Volume/>				
4	Menu/Enter				
5	Power				

Menu/Enter

When there is no OSD, 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 > Volume button to active volume adjustment bar, Press < or > to adjust volume.

Source/Exit

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



Clear Vision

- 1. When there is no OSD, Press the " <" button to activate Clear Vision.
- 2. Use the ">" or ">" buttons to select between weak, medium, strong, or off settings. Default setting is always "off".



3. Press and hold " <" button for 5 seconds to activate the Clear Vision Demo, and a message of "Clear Vision Demo: on" will be display on the screen for a duration of 5 seconds. Press Menu or Exit button, the message will disappear. Press and hold " <" button for 5 seconds again, Clear Vision Demo will be off.



Clear Vision function provides the best image viewing experience by converting low resolution and blurry images into clear and vivid images.



OSD Setting

Basic and simple instruction on the control keys.



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



Luminance

< + > > Luminance	Color Setup	Picture Boost	OSD Se	Game S) Extra	Exit	
Contrast							
			DCR	Off			
			HDR Mode	Off			

	Contrast	0-100		Contrast from Digital-register.			
	Brightness	0-100		Backlight Adjustment.			
		Standard	\checkmark	Standard Mode.			
		Text	T	Text Mode.			
		Internet	e	Internet Mode.			
	Eco mode	Game	200 C	Game Mode.			
	Ecomode	Movie	Ø	Movie Mode.			
		Sports	30	Sports Mode.			
		Reading	R	Reading Mode.			
- O -		Uniformity		Uniformity Mode			
10.4.51		Gamma1		Adjust to Gamma 1.			
	Gamma	Gamma2		Adjust to Gamma 2.			
		Gamma3		Adjust to Gamma 3.			
	DOD	On	DCR	Enable dynamic contrast ratio.			
	DCR	Off		Disable dynamic contrast ratio.			
		Off					
	HDR Mode	HDR Picture		Select HDR Mode.			
		HDR Movie					
		HDR Game					

Note:

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



Color Setup

Color Setup	re Boost	OSD Setup	Game Setting	× Extra	Exit	Luminance		
Color Temp.			Red	50			Off	►
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 O		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	On or Off	Disable or Enable Off 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.			
	LowBlue Mode	Reading / Office / Internet / Multimedia / Off		Decrease blue light wave by controlling color temperature.			

Note:

When "HDR Mode" under "Luminance" is set to "non-off", all items under "Color Setup" 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		Select the OSD language
	Timeout	5-120	Adjust the OSD Timeout
	DP Capability 1.1		If the DP video content supports DP1.2, please select DP1.2 for DP Capability; otherwise, please select DP1.1. Please be noted that only DP1.2 support Adaptive-Sync function
N	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 Setting 	X Extra	Exit	Luminance	Color S	Setup	Picture		S OSD Se		
	Off		Game Color					e Counter	Off	
Shadow Control			Overdrive		Off		DiaPo		Off	
Low Input Lag	Off				Off					

	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 guality.				
Game Mode	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 				
 Low Input Lag	On/Off	Turn off frame buffer to decrease input lag				
	Off					
Overdrive	Weak	Adjust the response time.				
Overdrive	Medium					
	Strong					
Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.				
Dial Point	On or Off	The "Dial Point" function places an aiming indicator in the center of screen for helping gamers to play First Person Shooter (FPS) games with an accurate and precise aiming.				
		Disable or Enable Adaptive-Sync.				
Adaptive-Sync	On or Off	Adaptive-Sync Run Reminder: When the Adaptive-Sync feature is enabled, there may be flashing in some game environments.				
	Off / Right-up / Right-					
Frame Counter	Down / Left-Down / Left-Up	Display V frequency on the corner selected				

Note:

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



Extra

< 🔀 >	Exit	- XXX- Luminance	Color Setup	Pic	cture Boost	OSD Setup	Game Setting
			DDC/CI				ution : 3840(H)X2160(V)
Off Timer							equency : 133KHz
							quency : 60Hz

	Input Select		Select Input Signal Source			
	Off timer	0-24hrs	Select DC off time			
		Wide				
		4:3				
1	Image Ratio	1:1	Select image ratio for display.			
1		Movie1				
		Movie2				
	DDC/CI	Yes or No	Turn ON/OFF DDC/CI Support			
	Reset	Yes or No	Reset the menu to default			
	IN ESEL	ENERGY STAR [®] or No	(ENERGY STAR [®] available for selective models)			



Exit

< 🍾 >	Luminance	Color Setup	Picture Boost	OSD Setup	Game Setting	× Extra	

-	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 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.				
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

	Model name	Q34E2A				
	Driving system	TFT Color LCD				
	Viewable Image Size	86cm diagonal				
Panel	Pixel pitch	0.23175mm(H) x 0.23175mm(V)				
	Video	HDMI Interface & DP Interface				
	Separate Sync	H/V TTL				
	Display Color	16.7M Colors				
	Horizontal scan range	30-90kHz				
	Horizontal scan Size(Maximum)	799.79mm				
	Vertical scan range	48-75Hz				
	Vertical Scan Size(Maximum)	334.8mm				
	Optimal preset resolution	2560x1080@60Hz				
Others	Plug & Play	VESA DDC2B/CI				
	Power Source	100-240V~, 50/60Hz				
	Power Consumption	Typical (default brightness and contrast) 36W				
		Max. (brightness = 100, contrast =100)		≤ 50W		
		Standby mode		≤ 0.5W		
Physical	Connector Type	DP/HDMI/Earphone out				
Characteristics	Signal Cable Type	Detachable				
	Tama anatum	Operating	0°~ 40°			
	Temperature	Non-Operating	-25°~ 55°			
		Operating	10% ~ 85% (non-condensin			
Environmental	Humidity	Non-Operating	5% ~ 93% (non-condensing)			
	Altitude	Operating	ng 0~ 5000 m (0~ 16404ft)			
		Non-Operating	0~ 12192m (0~ 40000ft)			

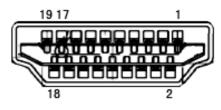


Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)	
	640x480@60Hz	31.469	59.940	
VGA	640x480@67Hz	35.000	66.667	
VGA	640x480@72Hz	37.861	72.809	
	640x480@75Hz	37.500	75.00	
	800x600@56Hz	35.156	56.250	
	800x600@60Hz	37.879	60.317	
SVGA	800x600@72Hz	48.077	72.188	
	800x600@75Hz	46.875	75.000	
	832x624@75Hz	49.725	74.551	
	1024x768@60Hz	48.363	60.004	
XGA	1024x768@70Hz	56.476	70.069	
	1024x768@75Hz	60.023	75.029	
0204	1280x1024@60Hz	63.981	60.020	
SXGA	1280x1024@75Hz	79.976	75.025	
WXGA+	1440x900@60Hz	55.935	59.887	
FHD	1920x1080@60Hz	67.500	60.000	
	2560x1080@60Hz	66.64	60	
WFHD	2560x1080@75Hz	83.92	75	

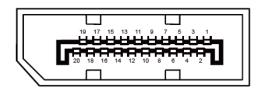


Pin Assignments



19-Pin Color Display Signal Cable

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.

