# ЛОС







## LCD Monitor User Manual

AG323QCX2

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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:

### X

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

### A

**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.

Inplug 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.

 ${f A}$  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.

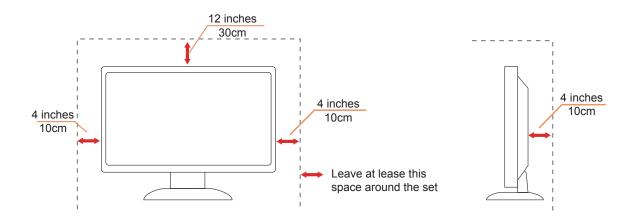
If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

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.

To avoid potential damage, for example the panel peeling from the bezel, ensure that the monitor does not tilt downward by more than -5 degrees. If the -5 degree downward tilt angle maximum is exceeded, the monitor damage will not be covered under warranty.

See below the recommended ventilation areas around the monitor when the monitor is installed on the wall or on the stand:

#### Installed with stand

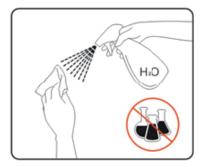


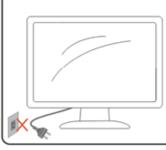
### Cleaning

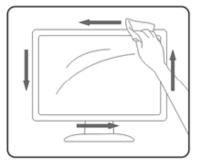
Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

When cleaning, make sure no detergent is leaked into the product. The cleaning cloth should not be too rough as it will scratch the screen surface.

Please disconnect the power cord before cleaning the product.







### Other

If the product is emitting a strange smell, sound or smoke, disconnect the power plug IMMEDIATELY and contact a Service Center.

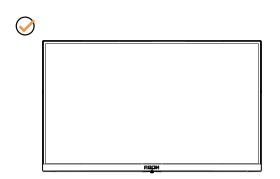
A Make sure that the ventilating openings are not blocked by a table or curtain.

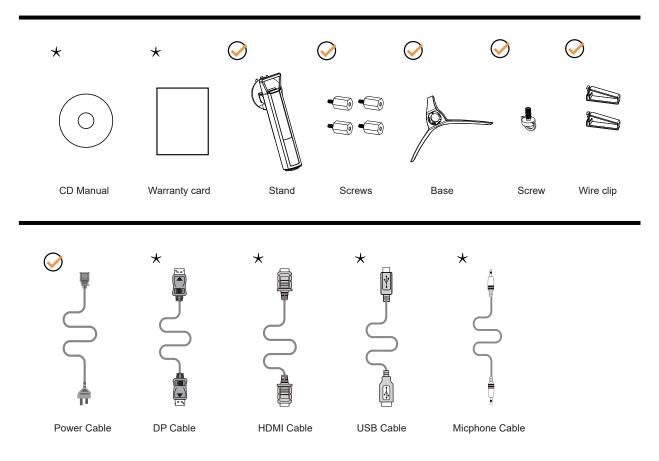
Do not engage the LCD monitor in severe vibration or high impact conditions during operation.

\_\_\_\_\_Do not knock or drop the monitor during operation or transportation.

## Setup

### **Contents in Box**



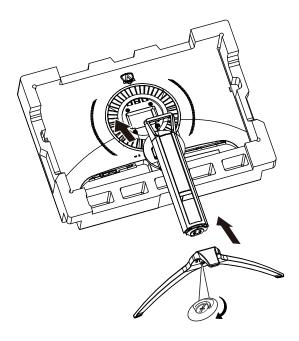


★ Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

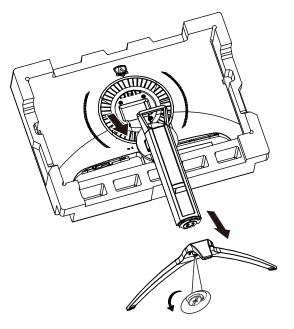
### Setup Stand & Base

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

#### Setup:



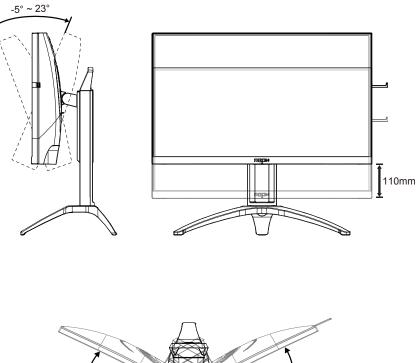
Remove:

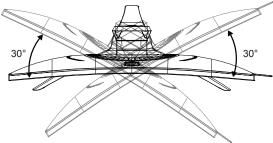


### Adjusting the monitor

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:





### 

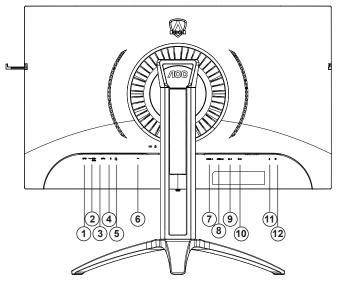
Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.



- 1. To avoid potential screen damage, such as panel peeling, ensure that the monitor does not tilt downward by more than -5 degrees.
- 2. Do not press the screen while adjusting the angle of the monitor. Grasp only the bezel.

### **Connecting the Monitor**

Cable Connections In Back of Monitor and Computer:



- 1. USB upstream
- 2. USB3.2 Gen1 downstream + fast charging x1 USB3.2 Gen1 downstreamx1
- 3. USB3.2 Gen1 downstream x2
- 4. Microphone in
- 5. Earphone (Combined with Microphone)
- 6. Power
- 7. HDMI-1
- 8. HDMI-2
- 9. DP-1
- 10. DP-2
- 11. Microphone out (Connect to PC)
- 12. Quick Switch port

#### Connect to PC

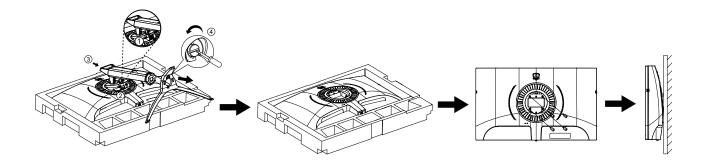
- 1. Connect the power cord to the back of the display firmly.
- 2. Turn off your computer and unplug its power cable.
- 3. Connect the display signal cable to the video connector on the back of your computer.
- 4. Plug the power cord of your computer and your display into a nearby outlet.
- 5. Turn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

### Wall Mounting

Preparing to Install An Optional Wall Mounting Arm.



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

1. Remove the base.

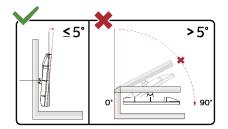
2. Follow the manufacturer's instructions to assemble the wall mounting arm.

3. Place the wall mounting arm onto the back of the monitor. Line up the holes of the arm with the holes in the back of the monitor.

4. Insert the 4 screws into the holes and tighten.

5. Reconnect the cables. Refer to the user's manual that came with the optional wall mounting arm for instructions on attaching it to the wall.

**Noted:** VESA mounting screw holes are not available for all models, please check with the dealer or official department of AOC.



\* Display design may differ from those illustrated.

### MARNING:

- 1. To avoid potential screen damage, such as panel peeling, ensure that the monitor does not tilt downward by more than -5 degrees.
- 2. Do not press the screen while adjusting the angle of the monitor. Grasp only the bezel.

### **AMD FreeSync Premium function**

- 1. AMD FreeSync Premium 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
- Graphics Cards
- Radeon<sup>™</sup> RX Vega series
- Radeon<sup>™</sup> RX 500 series
- Radeon<sup>™</sup> RX 400 series
- Radeon<sup>™</sup> R9/R7 300 series (excluding R9 370/X)
- Radeon<sup>™</sup> Pro Duo (2016 edition)
- Radeon<sup>™</sup> R9 Nano
- Radeon<sup>™</sup> R9 Fury series
- Radeon<sup>™</sup> R9/R7 200 series (excluding R9 270/X, R9 280/X)
- Processors
- AMD Ryzen<sup>™</sup> 7 2700U
- AMD Ryzen<sup>™</sup> 5 2500U
- AMD Ryzen<sup>™</sup> 5 2400G
- AMD Ryzen<sup>™</sup> 3 2300U
- AMD Ryzen<sup>™</sup> 3 2200G
- AMD PRO A12-9800
- AMD PRO A12-9800E
- AMD PRO A10-9700
- AMD PRO A10-9700E
- AMD PRO A8-9600
- AMD PRO A6-9500
- AMD PRO A6-9500E
- AMD PRO A12-8870
- AMD PRO A12-8870E
- AMD PRO A10-8770
- AMD PRO A10-8770E
- AMD PRO A10-8750B
- AMD PRO A8-8650B
- AMD PRO A6-8570
- AMD PRO A6-8570E
- AMD PRO A4-8350B
- AMD A10-7890K
- AMD A10-7870K
- AMD A10-7850K
- AMD A10-7800
- AMD A10-7700K
- AMD A8-7670K
- AMD A8-7650K
- AMD A8-7600
- AMD A6-7400K

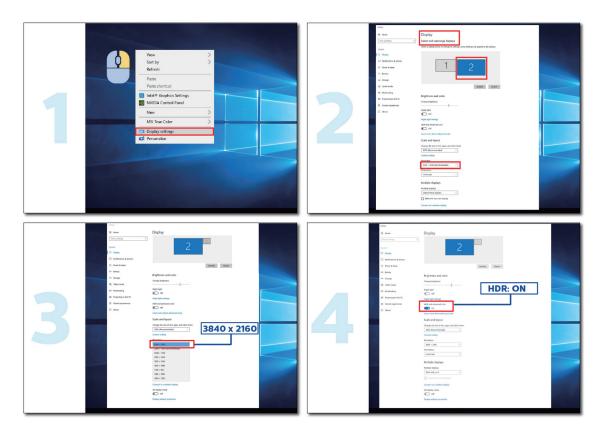
### HDR

It is compatible with input signals in HDR10 format.

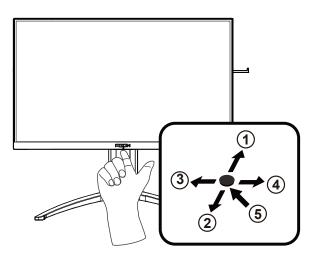
The display may automatically activate the HDR function if the player and content are compatible. Please contact the device manufacturer and the content provider for information on the compatibility of your device and content. Please select "OFF" for the HDR function when you have no need for automatical activation function.

#### Note:

- 1. Only the HDMI interface is available and the DisplayPort interface cannot function in WIN10 version V1703.
- 2. 3840x2160 @50Hz /60Hz not suggestion used in PC device only for UHD player or Xbox / PS.
- a. The display resolution is set to 3840\*2160, and HDR is preset to ON. Under these conditions, the screen may slightly dim, indicating HDR has been activated.
- b. After entering an application, the best HDR effect can be achieved when the resolution is changed to 3840\*2160 (if available).



### Hotkeys



1	Source/Up
2	Dial Point/Down
3	Game Mode/Left
4	Light FX /Right
5	Power/ Menu/Enter

#### Power/Menu/Enter

Press the Power button to turn on the monitor.

When there is no OSD, Press to display the OSD or confirm the selection. Press about 2 seconds to turn off the monitor.

#### **Dial Point/Down**

When there is no OSD, press Dial Point button to show / hide Dial Point.

#### Game Mode/Left

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

#### Light FX/Right

When there is no OSD, press "Right" key to active Light FX function.

#### Source/Up

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

### OSD Key Guide (Menu)



Exit : Use Right key to exit OSD



Enter : Use Enter key to enter the next OSD level Move : Use Right / Up / Down key to move OSD selection Exit : Use Left key to exit OSD



Enter : Use Enter key to enter the next OSD level Move : Use Up / Down key to move OSD selection Exit : Use Left key to exit OSD



Move : Use Left / Right / Up / Down Key to move OSD selection



Exit : Use Left key to exit OSD to previous OSD level Enter : Use Right key to enter next OSD level Select : Use Up / Down key to move OSD selection



Enter : Use Enter key to apply the OSD setting and back to previous OSD level Select : Use Down key to adjust OSD setting



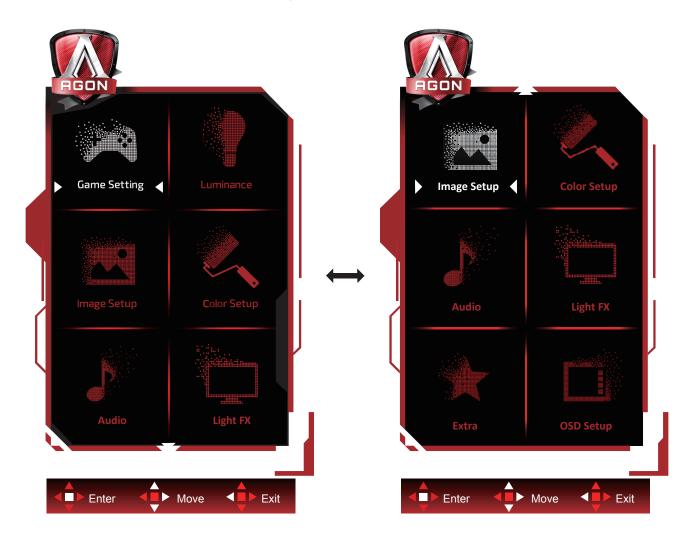
Select : Use Up / Down key to adjust OSD setting



Enter : Use Enter key to exit OSD to previous OSD level Select : Use Left / Right key to adjust OSD setting

### **OSD Setting**

Basic and simple instruction on the control keys.



- 1). Press the MENU-button to activate the OSD window.
- 2). Follow Key Guide to move or select (adjust) OSD settings
- 3). OSD Lock/Unlock Function: To lock or unlock the OSD, press and hold the Down–button for 10s while OSD function is not active.

#### 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 and DCB mode , for these three states that only one state can exist.

#### **Game Setting**



Game Mode	FPS RTS Racing	<ul> <li>For playing FPS (first Person Shooters) games. Improves dark theme black level details.</li> <li>For playing RTS (Real Time Strategy). Improves the image quality.</li> <li>For playing Racing games, Provides fastest response time and high color saturation.</li> </ul>	
	Game Mode	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	<ul> <li>Shadow Control Default is 50, then end-user can adjust from 50 to 100 or 0 to increase contrast for clear picture.</li> <li>1. If picture is too dark to be saw the detail clearly, adjusting from 50 to 100 for clear picture.</li> <li>2. If picture is too white to be saw the detail clearly, adjusting from 50 to 0 for clear picture</li> </ul>
	Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.
	MBR	0-20	<ul> <li>MBR (Motion Blur Reduction) Provides 0-20 levels of adjustments to reduce motion blur.</li> <li>Note: 1. The MBR function can be adjusted when AMD FreeSync Premium is turned off, the low input delay is turned on and the refresh rate is ≥75Hz.</li> <li>2. The brightness of the screen will decrease as the adjustment value increases.</li> </ul>
	AMD FreeSync	On / Off	Disable or Enable AMD FreeSync Premium. AMD FreeSync Premium Run Reminder: When the AMD FreeSync Premium feature is enabled, there may be flashing in some game environments.

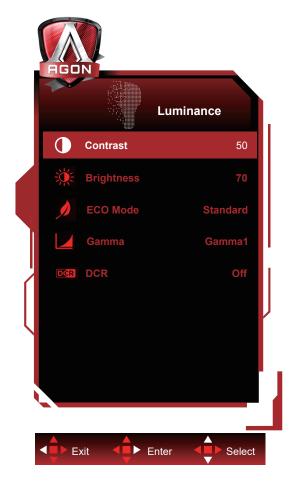
	_	Weak	Adjust the response time.
	Medium	Note: 1. If the user adjusts OverDrive to "High," the displayed image may be blurred. Users can adjust the OverDrive level or turn it off according to their preferences.	
0	Overdrive	Strong	<ol> <li>The "Boost" function is optional when AMD FreeSync</li> <li>Premium is turned off, the low input delay is turned on, and</li> </ol>
		Boost	the refresh rate is ≥75Hz. 3. The screen brightness will decrease when the "Boost"
	ſ	Off	function is turned on.
L	ow Input lag	On / Off	Turn off frame buffer to decrease input lag
Q	QuickSwitch LED	On / Off	Disable or Enable QuickSwitch LED
F	Frame Counter	Off / Right-Up / Right-Down / Left- Down / Left-Up	Instantly display the vertical frequency of the current signal. (Frame counter feature only works with AMD graphic card.)

#### Notes:

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

When "HDR" under "Image Setup" is set to "non-off", the items "Game Mode", "Shadow Control", "Game Color", "MBR" cannot be adjusted. "Boost" under "Overdrive" is not available.

#### Luminance



	Contrast	0-100	Contrast from Digital-register.	
	Brightness	0-100	Backlight Adjustment	
		Standard	Standard Mode	
		Text	Text Mode	
	Eco mode	Internet	Internet Mode	
	Eco mode	Ecomode	Game	Game Mode
		Movie	Movie Mode	
		Sports	Sports Mode	
		Gamma1	Adjust to Gamma 1	
	Gamma	Gamma2	Adjust to Gamma 2	
		Gamma3	Adjust to Gamma 3	
	DCR	Off/On	Disable/ Enable dynamic contrast ratio	

#### Note:

When "HDR Mode" under "Image Setup" is set to "non-off", the items "Contrast", "Eco mode", "Gamma" cannot be adjusted.

When "HDR" under "Image Setup" is set to "non-off", all items under "Luminance" cannot be adjusted.

### Image Setup



		Off	
		DisplayHDR	Set the HDR profile according to your usage requirements.
HDR	HDR	HDR Picture	Note: When HDR is detected, the HDR option is displayed for
		HDR Movie	adjustment.
		HDR Game	
		Off	Optimized for the color and contrast of the picture, which
	HDR Mode	HDR Picture	will simulate showing the HDR effect.
		HDR Movie	When HDR is not detected, the HDR Mode option is
		HDR Game	displayed for adjustment.

#### **Color Setup**



	LowBlue Mode	Off / Multimedia / Internet / Office / Reading	Decrease blue light wave by controlling color temperature.
		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.
			Restore User Color Temperature from EEPROM.
	DCB Mode	Off	Disable DCB Mode.
		Full Enhance	Enable Full Enhance Mode.
		Nature Skin	Enable Nature Skin Mode.
		Green Field	Enable Green Field Mode.
		Sky-blue	Enable Sky-blue Mode.
		Auto Detect	Enable AutoDetect Mode.
	DCB Demo	On or Off	Disable or Enable Demo.
	Red	0-100	Red gain from Digital-register.
	Green	0-100	Green gain from Digital-register.
	Blue	0-100	Blue gain from Digital-register.

#### Note:

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

#### Audio



Volume	0-100	Adjust volume setting
DTS Sound	Game / Rock / Classical / Live / Theater / Off	Select DTS Sound mode. <b>Note:</b> It may take up to 2 seconds to switch modes.
TruVolume HD	On / Off	Disable or Enable TruVolume HD.
200Hz	0-100	Low frequency base audio, also the root audio frequency of the chord in the tone.
500Hz	0-100	Mainly used to express vocals (eg. singing, reading), Strengthen the thickness and strength of vocals.
2.5KHz	0-100	This frequency has a strong penetrating power and can be improved to improve the brightness and clarity of the sound.
7KHz	0-100	Enhance the clarity of vocals.
10KHz	0-100	The high-pitched area of music is most sensitive to the high- frequency performance of the sound.

#### Light FX



	Light FX	Off / Low / Medium / Strong	Select the intensity of Light FX.
	Point/Zoom/Discolor/ Water Wave/Flashing/ Demo		Select Light FX Mode
and the second	Pattern	Red / Green / Blue / Rainbow / User Define	Select Light FX Pattern
	Foreground R		
	Foreground G	0-100	User can adjust Light FX foreground color, when Pattern setting to user define
	Foreground B		3
	Background R		
	Background G	0-100	User can adjust Light FX background color, when Pattern setting to user define
	Background B		Ŭ

#### Extra



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

#### **OSD Setup**



Language		Select the OSD language.
Timeout	5-120	Adjust the OSD Timeout.
DP Capability	1.1/1.2/1.4	If the DP video content supports DP1.2/DP1.4, please select DP1.2/DP1.4 for DP Capability; otherwise, please select DP1.1. Please be noted that only DP1.2/DP1.4 support AMD FreeSync Premium function.
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 /Off	Break reminder if the user continuously work for more than 1hrs.

### **LED Indicator**

Status	LED Color
Full Power Mode	Red
Active-off Mode	Orange

## Troubleshoot

Problem & Question	Possible Solutions
Power LED Is Not ON	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.
No images on the screen	<ul> <li>Is the power cord connected properly? Check the power cord connection and power supply.</li> <li>Is the cable connected correctly? (Connected using the D-SUB cable) Check the D-SUB cable connection. (Connected using the HDMI cable) Check the HDMI cable connection. (Connected using the DP cable) Check the DP cable connection. *D-SUB/HDMI/DP input is not available on every model.</li> <li>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.</li> <li>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.</li> <li>Make sure the AOC Monitor Drivers are installed.</li> </ul>
Picture Is Fuzzy & Has Ghosting Shadowing Problem	Adjust the Contrast and Brightness Controls. Press to auto adjust. Make sure you are not using an extension cable or switch box. We recommend plugging the monitor directly to the video card output connector on the back.
Picture Bounces, Flickers Or Wave Pattern Appears In The Picture	Move electrical devices that may cause electrical interference as far away from the monitor as possible. Use the maximum refresh rate your monitor is capable of at the resolution you are using.
Monitor Is Stuck In Active Off- Mode"	The Computer Power Switch should be in the ON position. The Computer Video Card should be snugly fitted in its slot. Make sure the monitor's video cable is properly connected to the computer. Inspect the monitor's video cable and make sure no pin is bent. Make sure your computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.
Missing one of the primary colors (RED, GREEN, or BLUE)	Inspect the monitor's video cable and make sure that no pin is damaged. Make sure the monitor's video cable is properly connected to the computer.
Screen image is not centered or sized properly	Adjust H-Position and V-Position or press hot-key (AUTO).
Picture has color defects (white does not look white)	Adjust RGB color or select desired color temperature.
Horizontal or vertical disturbances on the screen	Use Windows 7/8/10 shut-down mode to adjust CLOCK and FOCUS. Press to auto-adjust.
Regulation & Service	Please refer to Regulation & Service Information which is in the CD manual or www.aoc.com (to find the model you purchase in your country and to find Regulation & Service Information in Support page.

## **Specification**

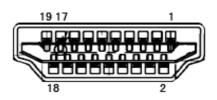
### **General Specification**

	Model name	AG323QCX2			
Panel	Driving system	TFT Color LCD			
	Viewable Image Size	80.1 cm diagonal			
	Pixel pitch	0.2724mm(H) x 0.2724mm(V)			
	Video	HDMI Interface & DP Interface			
	Display Color	16.7M Colors			
	Horizontal scan range	30k-230kHz			
	Horizontal scan Size(Maximum)	697.344mm			
	Vertical scan range	48-144Hz(HDMI) 48-155Hz(DP)			
	Vertical Scan Size(Maximum)	392.256mm			
	Optimal preset resolution	2560x1440@60Hz			
Others	Max resolution	2560x1440@144Hz(HDMI) 2560x1440@155Hz(DP)			
	Plug & Play	VESA DDC2B/CI			
	Connector	HDMIx2 /DPx2 /USBx4 /USB up/Quick Switch port/Earphone out/			
		Microphone out			
	Power Source	100-240V~, 1.5A, 50/60Hz			
	Power Consumption	Typical(default brightness and contrast)		63W	
		Max. (brightness = 100, contrast =100)		≤120W	
		Standby Mode		≤0.5W	
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 )		04ft)	
		Non-Operating	0~ 12192m (0~ 400	000ft )	

### Preset Display Modes

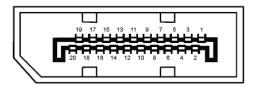
STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)	
	640x480@60Hz	31.469	59.94	
VGA	640x480@72Hz	37.861	72.809	
	640x480@75Hz	37.5	75	
	640x480@100Hz	50.313	99.826	
	640x480@120Hz	60.938	119.72	
	800x600@56Hz	35.156	56.25	
	800x600@60Hz	37.879	60.317	
	800x600@72Hz	48.077	72.188	
SVGA	800x600@75Hz	46.875	75	
	800x600@100Hz	62.76	99.778	
	800x600@120Hz	76.302	119.972	
	1024x768@60Hz	48.363	60.004	
	1024x768@70Hz	56.476	70.069	
XGA	1024x768@75Hz	60.023	75.029	
	1024x768@100Hz	80.448	99.811	
	1024x768@120Hz	97.551	119.989	
SXGA	1280x1024@60Hz	63.981	60.02	
	1280x1024@75Hz	79.976	75.025	
	1440x900@60Hz	55.935	59.887	
WXGA+		55.469	59.901	
	1680x1050@60Hz	65.29	59.954	
WSXGA	1680x1050@60Hz	64.674	59.883	
	1920x1080@60Hz	67.5	60	
FHD	1920x1080@120Hz	139.1	119.93	
	2560x1440@60Hz	88.787	59.951	
QHD	2560x1440@120Hz	182.997	119.998	
	2560x1440@144Hz	222.056	143.912	
QHD(DP)	2560x1440@155Hz	227.85	155	
	IBM M	ODES		
DOS	640x350@70Hz	31.469	70.087	
DOS	720x400@70Hz	31.469	70.087	
	MAC M	IODES		
VGA	640x480@67Hz	35	66.667	
SVGA	832x624@75Hz	49.725	74.551	
XGA	1024x768@75Hz	60.241	74.927	

### **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.



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