

### **AOC AG323QCXE LCD Monitor User Manual**

Home » AOC » AOC AG323QCXE LCD Monitor User Manual



#### **Contents**

- 1 AOC AG323QCXE LCD Monitor
- 2 Safety
- 3 Installation
- 4 See below the recommended ventilation areas around the monitor when the monitor is installed on the wall or on the stand: Cleaning
- 5 Setup
- 6 Setup Stand & Base
- 7 Adjusting the monitor
- 8 Adaptive-Sync function
- 9 Hotkeys
- 10 OSD Key Guide (Menu)
- 11 OSD Setting
- 12 Game Setting
- 13 Luminance
- 14 Image Setup
- 15 Image Setup
- 16 Audio
- 17 Light FX
- 18 Extra
- 19 OSD Setup
- 20 LED Indicator
- 21 Troubleshoot
- 22 Specification
- 23 Plug and Play
- 24 Documents / Resources
  - 24.1 References





LCD Monitor User Manual AG323QCXE LED backlight

### 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.

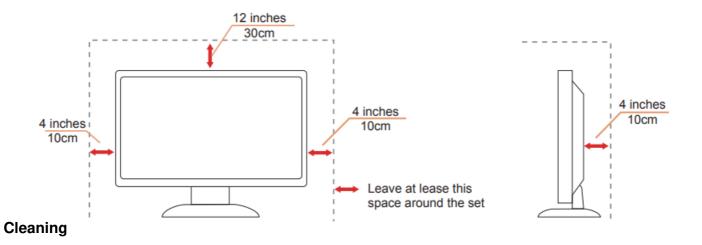
#### **Power**

- 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.

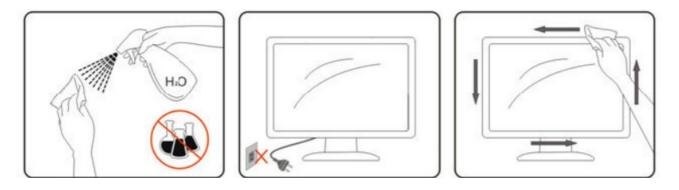
#### Installation

- 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:



- Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strongdetergent 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

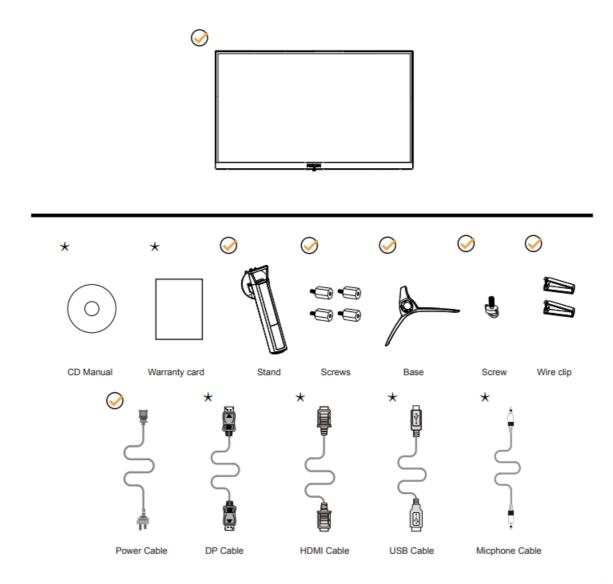
If the product is emitting a strange smell, sound or smoke, disconnect the power plug IMMEDIATELY and contact

#### 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**

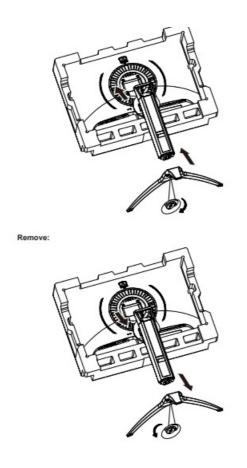


Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

### **Setup Stand & Base**

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

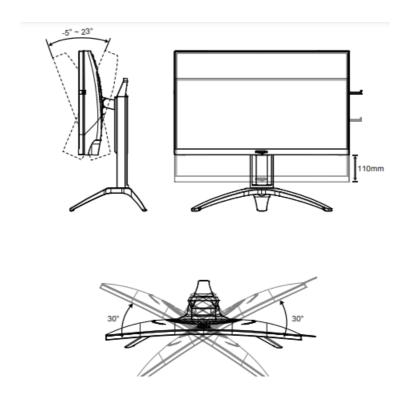
#### Setup:



### 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:

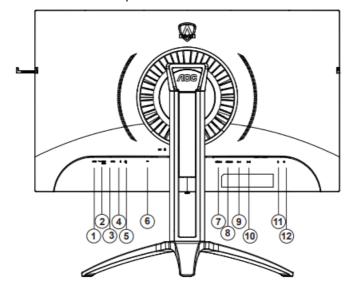


### NOTE:

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. 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.

### **Adaptive-Sync function**

- 1. Adaptive-Sync function is working with DP/HDMI
- Compatible Graphics Card: Recommend list is as the below, also could be checked by visiting www.AMD.com

- Graphics Cards
- RadeonTM RX Vega series
- RadeonTM RX 500 series
- RadeonTM RX 400 series
- RadeonTM R9/R7 300 series (excluding R9 370/X)
- RadeonTM Pro Duo (2016 edition)
- RadeonTM R9 Nano
- RadeonTM R9 Fury series
- RadeonTM R9/R7 200 series (excluding R9 270/X, R9 280/X) Processors
- AMD RyzenTM 7 2700U
- AMD RyzenTM 5 2500U
- AMD RyzenTM 5 2400G
- AMD RyzenTM 3 2300U
- AMD RyzenTM 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

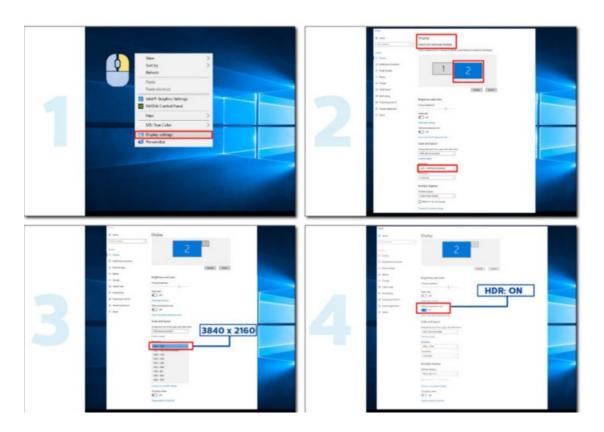
#### **HDR**

- 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

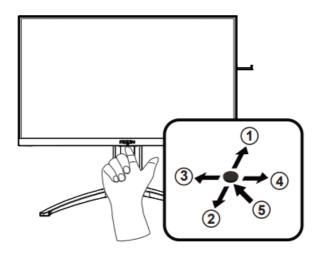
contact the device manufacturer and the content provider for information on the compatibility of your device and content. Please select "OFF" for the HDR function when you have no need for automatically activation function.

#### Note:

- 1. Only the HDMI interface is available and the DisplayPort interface cannot function in WIN10 version V1703.
- 2. 3840×2160 @50Hz /60Hz not suggestion used in PC device only for UHD player or Xbox-ones / PS4-Pro.
  - 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.
  - 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.

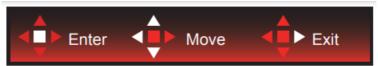
### • Light FX/Right

• 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)**



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

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



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



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



Select: Use Up / Down key to adjust OSD setting



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



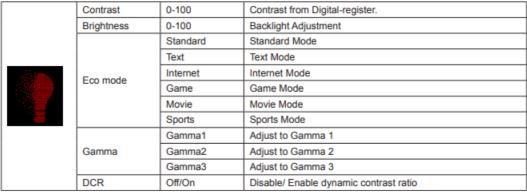
		FPS	For playing FPS (first Person Shooters) games. Improves dark theme black level details.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
		Racing	For playing Racing games, Provides fastest response time and high color saturation.
	Game Mode	Gamer 1	User's preference settings 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	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 to 100 for clear picture.  2. If picture is too white to be saw the detail clearly, adjusting from 50 to 0 for clear picture
	Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.
	MBR	0-20	MBR (Motion Blur Reduction) Provides 0-20 levels of adjustments to reduce motion blur.  Note: 1. The MBR function can be adjusted when Adaptiv Sync is turned off, the low input delay is turned on and the refresh rate is ≥75Hz.  2. The brightness of the screen will decrease as the adjustment value increases.  Disable or Enable Adaptive-Sync.
	Adaptive-Sync	On / Off	Adaptive-Sync Run Reminder: When the Adaptive-Sync feature is enabled, there may be flashing in some game environments.
		Weak	Adjust the response time.
	Overdrive	Medium	Note: 1. If the user adjusts OverDrive to "High," the displayed image may be blurred. Users can adjust the
		Strong	OverDrive level or turn it off according to their preferences.  2. The "Boost" function is optional when Adaptive-Sync is turned off, the low input delay is turned on, and the refresh
		Boost	rate is ≥75Hz.  3. The screen brightness will decrease when the "Boost"
		Off	function is turned on.
	Low Input lag	On / Off	Turn off frame buffer to decrease input lag
	QuickSwitch LED	On / Off	Disable or Enable QuickSwitch LED
	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





#### 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**



	HDR	Off	
		DisplayHDR	Set the HDR profile according to your usage requirements.
		HDR Picture	Note: When HDR is detected, the HDR option is displayed for
		HDR Movie	adjustment.
		HDR Game	
	HDR Mode	Off	Optimized for the color and contrast of the picture, which
		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.

### **Image 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.
	User		Restore User 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
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.
	Color Temp.  DCB Mode  DCB Demo  Red  Green	LowBlue Mode	LowBlue Mode

### 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.  Note: 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



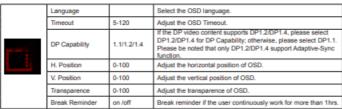
	Light FX	Off / Low / Medium / Strong	Select the intensity of Light FX.	
	Light FX Mode	Audio/Static/Simple Shift/ Gradient Shift/Simple Filling/I Way Filling/2 Way Filling/Breathing/Motion Point/Zoom/Discolor/ Water Wave/Flashing/ Demo	Select Light FX Mode	
	Pattern	Red / Green / Blue / Rainbow / User Define	Select Light FX Pattern	
اسيروسا	Foreground R	0-100		
	Foreground G		User can adjust Light FX foreground color, when Pattern setting to user define	
	Foreground B	1		
	Background R			
	Background G	0-100	User can adjust Light FX background color, when Pattern setting to user define	
	Background B	1		

### 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





### **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 t o a grounded power outlet and to the monitor.

No images on the screen	<ul> <li>Is the power cord connected properly?</li> <li>Check the power cord connection and power supply. Is the cable connected correctly?</li> <li>(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.</li> <li>*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.</li> <li>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.</li> <li>(Refer to the Setting the Optimal Resolution)</li> <li>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?</li> <li>You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.</li> <li>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 Ghos ting Shadowing Problem	<ul> <li>Adjust the Contrast and Brightness Controls. Press to auto adjust.</li> <li>Make sure you are not using an extension cable or switch box. We recomm end plugging the monitor directly to the video card output connector on the back.</li> </ul>
Picture Bounces, Flickers O r Wave Pattern Appears In T he Picture	<ul> <li>Move electrical devices that may cause electrical interference as far away fr om the monitor as possible.</li> <li>Use the maximum refresh rate your monitor is capable of at the resolution y ou are using.</li> </ul>

Monitor Is Stuck In Active O ff- Mode"	<ul> <li>The Computer Power Switch should be in the ON position.</li> <li>The Computer Video Card should be snugly fitted in its slot.</li> <li>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.</li> <li>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 the urn ON or</li> <li>OFF after hitting the CAPS LOCK key.</li> </ul>
Missing one of the primary c olors (RED, GREEN, or BLU E)	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 centere d or sized properly	Adjust H-Position and V-Position or press hot-key (AUTO).
Picture has color defects (w hite 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 <a href="https://www.aoc.com">www.aoc.com</a> (to find the model you purchase in your country and to find Regulation & Service Information in Support page.

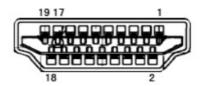
# Specification

**General Specification** 

	Model name	AG323QCXE					
	Driving system	TFT Color LCD					
Panel	Viewable Image Size	80.1 cm diagonal					
i anei	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(M aximum)	697.344mm					
	Vertical scan range	48-144Hz					
	Vertical Scan Size(Maxi mum)	392.256mm	392.256mm				
	Optimal preset resolutio	2560×1440@60Hz					
Others	Max resolution	2560×1440@144Hz					
	Plug & Play	VESA DDC2B/CI					
	Connector	HDMIx2 /DPx2 /USBx4 /USB up/Quick Switch port/Earphone out/ Micro phone out					
	Power Source	100-240V~, 1.5A, 50/60Hz					
		Typical(default	brightness and contrast)	55W			
	Power Consumption	Max. (brightness = 100, contrast =100)		≤120W			
		Power saving ≤0.5		≤0.5W			
		Operating	0°~ 40°				
	Temperature	Non-Operatin	-25°~ 55°				
		Operating	10% ~ 85% (non-condensing)				
Environm	Humidity	Non-Operatin	5% ~ 93% (non-condensing)				
ental		Operating	0~ 5000 m (0~ 16404ft )				
	Altitude	Non-Operatin	0~ 12192m (0~ 40000ft )				

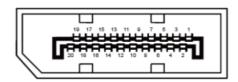
### **Preset Display Modes**

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY (Hz)
VGA	640×480@60Hz	31.469	59.94
VGA	640×480@67Hz	35	66.667
VGA	640×480@72Hz	37.861	72.809
VGA	640×480@75Hz	37.5	75
VGA	640×480@100Hz	51.08	99.769
VGA	640×480@120Hz	61.91	119.518
DOS MODE	720×400@70Hz	31.469	70.087
DOS MODE	720×480@60Hz	29.855	59.710
SD	720×576@50Hz	31.25	50
SVGA	800×600@56Hz	35.156	56.25
SVGA	800×600@60Hz	37.879	60.317
SVGA	800×600@72Hz	48.077	72.188
SVGA	800×600@75Hz	46.875	75
SVGA	800×600@100Hz	63.684	99.662
SVGA	800×600@120Hz	76.302	119.97
SVGA	832×624@75Hz	49.725	74.551
XGA	1024×768@60Hz	48.363	60.004
XGA	1024×768@70Hz	56.476	70.069
XGA	1024×768@75Hz	60.023	75.029
XGA	1024×768@100Hz	81.577	99.972
XGA	1024×768@120Hz	97.551	119.989
SXGA	1280×1024@60Hz	63.981	60.02
SXGA	1280×1024@75Hz	79.975	75.025
FHD	1920×1080@60Hz	67.5	60
FHD	1920×1080@120Hz	137.26	119.982
QHD	2560×1440@60Hz	88.787	59.951
QHD	2560×1440@75Hz	111.028	74.968
QHD	2560×1440@120Hz	182.817	119.880
QHD	2560×1440@144Hz	222.056	143.912



# 19-Pin Color Display Signal Cable

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.



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#### **Documents / Resources**



AOC AG323QCXE LCD Monitor [pdf] User Manual AG323QCXE LCD Monitor, AG323QCXE, LCD Monitor, Monitor

#### References

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