

AOC U28G2XU2/BK 28 Inch LCD Monitor User Manual

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AOC U28G2XU2/BK 28 Inch LCD Monitor



Safety

National Conventions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

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

NOTE: A NOTE indicates important information that helps you make better use of your computer system. **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

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

Power

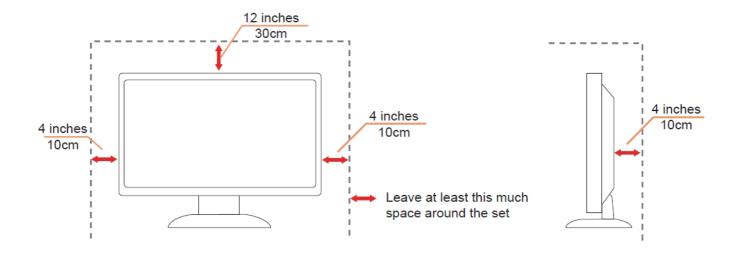
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.

- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.

Installation

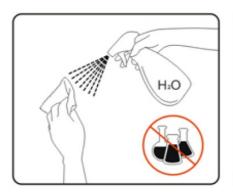
- Do not place the monitor on an unstable cart, stand, tripod, bracket, or table. If the monitor falls, it can injure a person and cause serious damage to this product. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with this product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. A product and cart combination should be moved with care.
- Never push any object into the slot on the monitor cabinet. It could damage circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not place the front of the product on the floor.
- If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.
- Leave some space around the monitor as shown below. Otherwise, air circulation may be inadequate hence overheating may cause a fire or damage to the monitor.
- See below the recommended ventilation areas around the monitor when the monitor is installed on the wall or on the stand:

Installed with stand

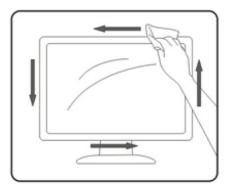


Cleaning

- 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.





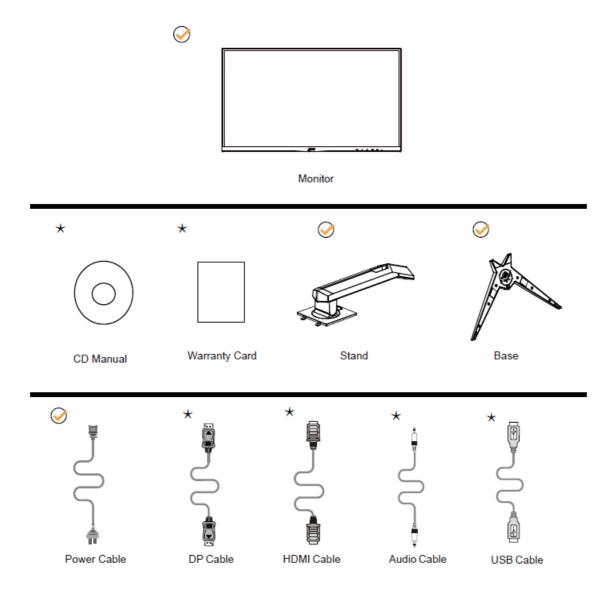


Other

- 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

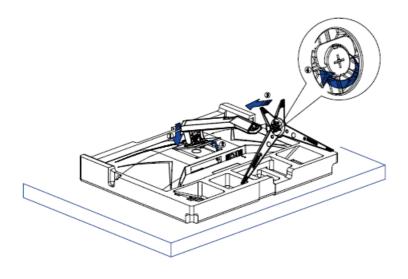


Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation

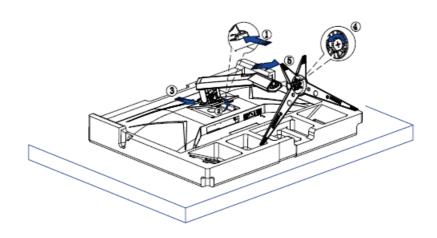
Setup Stand & Base

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

Setup:



Remove:

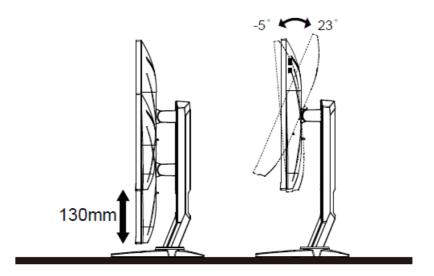


Adjusting Viewing Angle

For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.

Hold the stand so you will not topple the monitor when you change the monitor's angle.

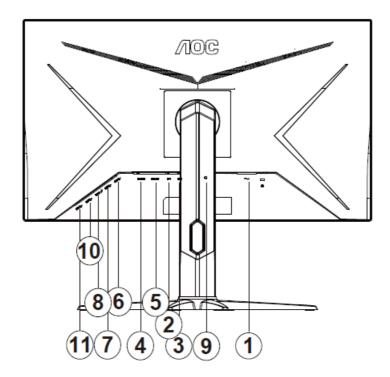
You are able to adjust the monitor as below:



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

Connecting the Monitor

Cable Connections In Back of Monitor and Computer:



- 1. Power
- 2. DP-1
- 3. DP-2
- 4. HDMI-1
- 5. HDMI-2
- 6. USB-PC(USB upstream)
- 7. USB3.2 Gen1
- 8. USB3.2 Gen1+charging
- 9. Earphone
- 10. USB3.2 Gen1
- 11. USB3.2 Gen1

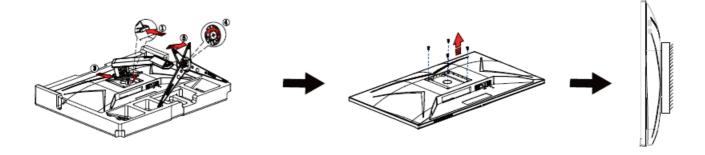
Connect to PC

- 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.

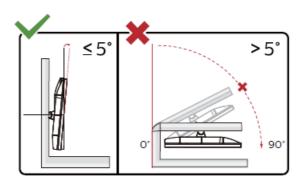


This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this procedure.

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. 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



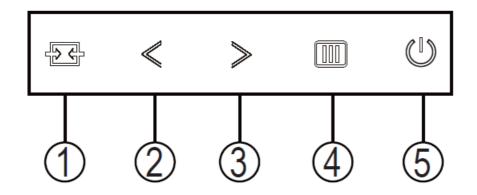
* Display design may differ from those illustrated.

Warning

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

Adjusting

Hotkeys



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

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.

Dial Point

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

Image ratio

When there is no OSD, Press > hotkey to active image ratio, Press < or > to adjust 4:3 or wide.

Game Mode

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.

Source/Exit

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

OSD Setting

Basic and simple instruction on the control keys



- 1. Press the **MENU-button** to activate the OSD window.
- Press Left or Right to navigate through the functions. Once the desired function is highlighted, press the MENU button to activate it, press Left or Right to navigate through the sub-menu functions. Once the desired function is highlighted, press MENU-button to activate it.
- 3. Press Left or Right to change the settings of the selected function. Press **AUTO-button** to exit. If you want to adjust any other function, repeat steps 2-3.
- 4. OSD Lock Function: To lock the OSD, press and hold the **MENU-button** while the monitor is off and then press **power button** to turn the monitor on. To un-lock the OSD press and hold the **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
- 2. If the screen size of the product is 4:3 or the input signal resolution is the native resolution, then the item "Image Ratio" is invalid.
- 3. The four states of ECO mode (except standard mode), DCR, DCB mode and window highlight can only display one state at a time.

Luminance

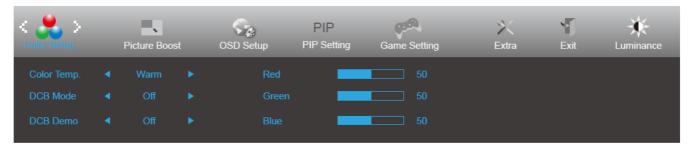


	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment
		Standard	Y	Standard Mode
		Text	T	Text Mode
		Internet	e	Internet Mode
		Game	بغف	Game Mode
	Eco mode	Movie	9	Movie Mode
		Sports	R	Sports Mode
		Reading		Reading Mode
		Uniformity		Uniformity Mode
		Gamma1		Adjust to Gamma 1
		Gamma2		Adjust to Gamma 2
	Gamma	Gamma3		Adjust to Gamma 3
		Off		Disable dynamic contrast ratio
	DCR	On	DCR	Enable dynamic contrast ratio
		Off / DisplayH	DR / HDR	
	HDR	Picture / HDR R Game	Movie / HD	Disable or Enable HDR
	HDR Mode	Off / HDR Pict Movie / HDR 0		Disable or Enable HDR Mode

Note:

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

Color Setup



	Warm		Recall Warm Color Temperature from EEPROM.
	Normal		Recall Normal Color Temperature from EEPROM.
	Cool		Recall Cool Color Temperature from EEPROM.
	sRGB		Recall SRGB Color Temperature from EEPROM.
Color Temp.		Red	Red Gain from Digital-register
Color romp.	User	Green	Green Gain Digital-register.
		Blue	Blue Gain from Digital-register
	Full Enhance	on or off	Disable or Enable Full Enhance Mode
	Nature Skin	on or off	Disable or Enable Nature Skin Mode
DODMA	Green Field	on or off	Disable or Enable Green Field Mode
	Sky-blue	on or off	Disable or Enable Sky-blue Mode
DCB Mode	Auto Detect	on or off	Disable or Enable AutoDetect Mode
	OFF	on or off	Disable or Enable 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.

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
	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.
*	HDMI1	120Hz / 144Hz	
	Transparence	0-100	Adjust the transparence of OSD
			Break reminder if the user continuously work for more
	Break Reminder on or off	than 1hrs	
	HDMI2	120Hz / 144Hz	

Note:

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

PIP Setting



	PIP Setting	OFF / PIP / PBP	Disable or Enable PIP or PBP.
	Main Occurs	HDMI1 HDMI2 DP1	Oalast main assuran
	Main Source	DP2	Select main screen source.
		HDMI1 HDMI2 DP1	
	Sub Source	DP2	Select sub screen source.
	Size	Small / Middle / Large	Select screen size.
		Right-up	
		Right-down	
	Position	Left-up	Set the screen location.
PIP		Left-down	
		On: PIP Audio	
	Audio	Off: Main Audio	Disable or Enable Audio Setup.
		On: Swap	
	Swap	Off: non action	Swap the screen source.

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 the from 50 to 100 or 0 to increase contrast for clear picture. 1. If picture is too dark to be saw the detail clearly, a djusting 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
Low Input Lag	On/Off	Turn off frame buffer to decrease input lag
Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.
LowBlue Mode	Reading / Office / Internet / Multimedia / Off	Decrease blue light wave by controlling color temperat ure.
	Off	

بتكفق

	Weak	
	Medium	Adjust the response time.
Overdrive	Strong	Adjust the response time.
	Boost	
AMD FreeSync	On/Off	Adjust the AMD FreeSync Premium.
Frame Counter	Off / Right-up / Right-Down / Left- Down / Left-Up	Display V frequency on the corner selected
MBR	0 ~ 20	Adjust the Motion Blur Reduction.

Note:

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

Extra



	Input Select		Select Input Signal Source
	Off timer	0-24hrs	Select DC off time
		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)	
	Image Ratio	24"W (16:9)	Select image ratio for display.
-		27"W (16:9)	
-	DDC/CI	yes or no	Turn ON/OFF DDC/CI Support
		yes or no	Reset the menu to default.
	Reset	ENERGY STAR® or no	(ENERGY STAR [®] available for selective models.

Exit



Exit	Exit the main OSD
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LED Indicator

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

Troubleshoot

Problem & Question	Possible Solutions		
Power LED Is Not ON	Make sure the power button is ON and the Power Cord is properly connecte d to a grounded power outlet and to the monitor.		
	Is the power cord connected properly?		
	Check the power cord connection and power supply. Is the video 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.)		
	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 C enter or your dealer.		
	Can you see "Input Not Supported" on the screen?		
No images 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.		
	Adjust the Contrast and Brightness Controls. Press hot-key (AUTO) to auto-adjust.		
Picture Is Fuzzy & Has Ghosti ng Shadowing Problem	Make sure you are not using an extension cable or switch box. We recomme nd plugging the monitor directly to the video card output connector		
	on the back.		

	Move electrical devices that may cause electrical interference as far away		
Picture Bounces, Flickers Or Wave Pattern Appears In The	from the monitor as possible.		
Picture	Use the maximum refresh rate your monitor is capable of at the resolution you are using.		
	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. I nspect the monitor's video cable and make sure no pin is bent.		
Monitor Is Stuck In Active Off- Mode"	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 col ors (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 (whit e does not look white)	Adjust RGB color or select desired color temperature.		
Horizontal or vertical disturba nces on the screen	Use Windows 7/8/10 shut-down mode to adjust CLOCK and FOCUS. Press hot-key (AUTO) to auto-adjust.		
	Please refer to Regulation & Service Information which is in the CD manual		
Regulation & Service	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

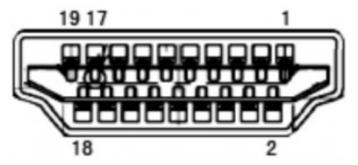
	Model name	U28G2XU2/BK				
	Driving system	TFT Color LCD				
Panel	Viewable Image Size	70.9 cm diagonal				
	Pixel pitch	0.16mm(H) x 0.16	Smm(V)			
	Horizontal scan range	30k-255kHz				
	Horizontal scan Size(M aximum)	620.93mm				
	Vertical scan range	48-144Hz				
	Vertical Scan Size(Maxi mum)	341.28mm				
	Optimal preset resolutio	3840×2160@60Hz				
	Max resolution	3840×2160@144Hz				
	Plug & Play	VESA DDC2B/CI				
Others	Power Source	100-240V~, 50/60Hz, 1.5A				
	Power Consumption	Typical(Default brightness and contrast) 45W				
		Max. (brightness = 100, contrast =100) ≤ 126				
		Standby mode ≤ 0.5W				
Physical	Connector Type	HDMI×2 DP×2 USB Earphone				
Characteri stics	Signal Cable Type	Detachable				
	Temperature	Operating	0°~ 40°			
		Non-Operating	rating -25°~ 55°			
Environm	I I ma i alitu	Operating	10% ~ 85% (non-condensing)			
	Humidity	Non-Operating	5% ~ 93% (non-condensing)			
Environm ental	Altitude	Operating	0~ 5000 m (0~ 16404ft)			
	Ailitude	Non-Operating	0~ 12192m (0~ 40000ft)			

Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)
VGA	640×480@60Hz	31.469	59.94
VGA	640×480@67Hz	35	66.667
VGA	640×480@72Hz	37.861	72.809

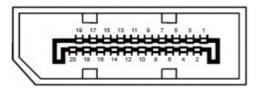
	T	T.	I
VGA	640×480@75Hz	37.5	75
DOS MODE	720×400@70Hz	31.469	70.087
SVGA	800×600@56Hz	35.156	56.25
SVGA	800×600@60Hz	37.879	60.317
SVGA	800×600@72Hz	48.077	72.188
SVGA	800×600@75Hz	46.875	75
MAC MODE	832×624@75Hz	49.725	74.551
XGA	1024×768@60Hz	48.363	60.004
XGA	1024×768@70Hz	56.476	70.069
XGA	1024×768@75Hz	60.023	75.029
HD	1280×960@60Hz	60	60
HD	1280×720@60Hz	44.772	59.885
SXGA	1280×1024@60Hz	63.981	60.02
SXGA	1280×1024@75Hz	79.976	75.025
WXGA+	1440×900@60Hz	55.935	59.887
WSXGA	1680×1050@60Hz	64.674	59.954
FHD	1920×1080@60Hz	67.5	60
FHD	1920×1080@120Hz	135.000	120
***	1920×2160@60Hz	133.293	59.988
QHD (for DP)	2560×1440@144Hz	222.056	143.912
QHD	2560×1440@120Hz	182.996	119.998
UHD (for HDMI)	3840×2160@30Hz	67.5	30
UHD	3840×2160@60Hz	133.32	60
UHD	3840×2160@75Hz	166.652	75.001
UHD	3840×2160@85Hz	188.87	85
UHD	3840×2160@100Hz	222.202	100.001
UHD	3840×2160@120Hz	266.653	120.006
UHD	3840×2160@144Hz	319.944	143.989
	1	l	l .

Pin Assignments



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		



Pin Color Display Signal Cable

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

Plug and Play

Plug & Play DDC2B Feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I2C protocol. The host can request EDID information over the DDC2B channel.

www.aoc.com

Documents / Resources



AOC U28G2XU2/BK 28 Inch LCD Monitor [pdf] User Manual U28G2XU2 BK, 28 Inch LCD Monitor, U28G2XU2 BK 28 Inch LCD Monitor, Monit or

References

• /1 AOC

Manuals+,