

# **AOC U34P2 LCD Frameless Monitor User Manual**

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**AOC U34P2 LCD Frameless Monitor** 



#### **Product Information**

## **Specifications**

• Model: U34P2

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## **Product Usage Instructions**

#### **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. 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
  - 12 inches (30cm)
  - 4 inches (10cm)
  - 4 inches (10cm)
- Leave at least this much space around the set: 4 inches (10cm)
- Please purchase a suitable wall mount to avoid the lack of distance between the back signal cable and the wall.

#### Cleaning

Clean the cabinet regularly with a water-dampened, soft cloth. When cleaning use a soft cotton or microfiber cloth. The cloth should be damp and almost dry, do not allow liquid into the case. Please disconnect the power cord before cleaning the product.

#### **FAQ**

· What should I do if my outlet does not accommodate the three-wire plug?

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.

Can I place the monitor on an unstable surface?

No, you should not place the monitor on an unstable cart, stand, tripod, bracket, or table. Use only recommended furniture provided by the manufacturer.

· How should I clean the monitor?

Clean the cabinet regularly with a water-dampened, soft cloth. Ensure that the cloth is damp and almost dry, and do not allow liquid into the case. Disconnect the power cord before cleaning.

#### 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.

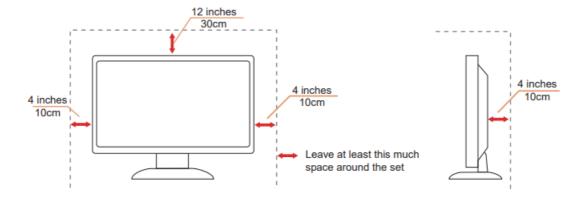
#### **Power**

- 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.
- 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:

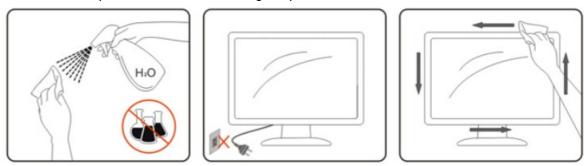
## Installed with stand



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

## Cleaning

- Clean the cabinet regularly with a water-dampened, soft cloth.
- When cleaning use a soft cotton or microfiber cloth. The cloth should be damp and almost dry, do not allow liquid into the case.
- Please disconnect the power cord before cleaning the product.

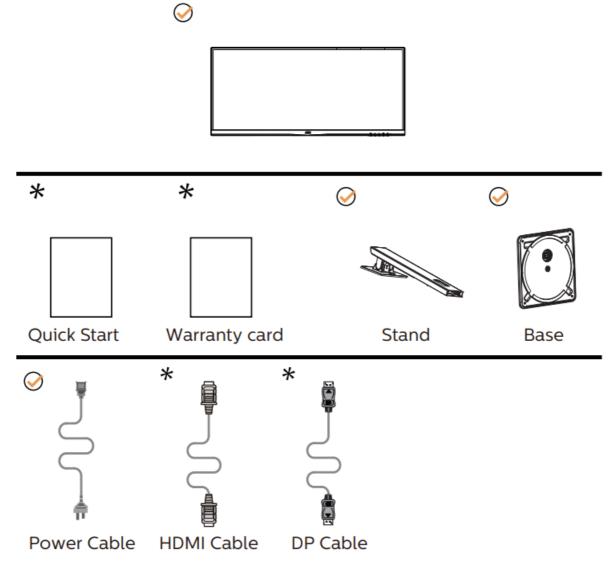


#### Other

- 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**

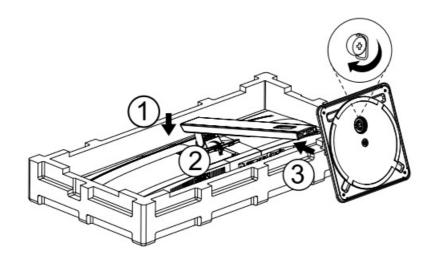


Not all signal cables (HDMI/DP) will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

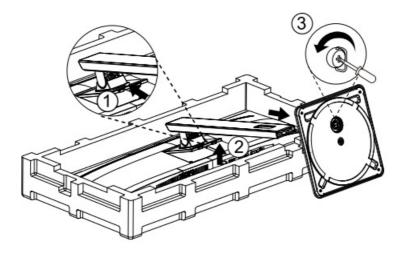
# **Setup Base**

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

# • Setup:

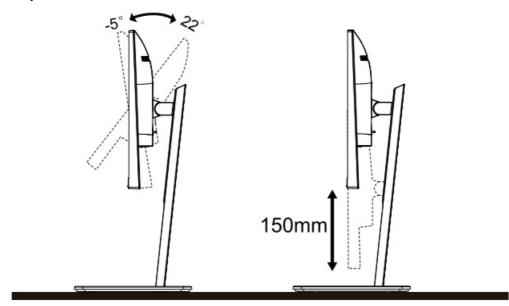


• Remove:



## **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:



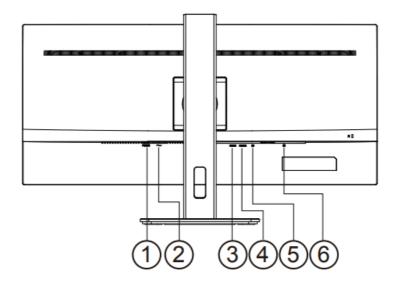
**NOTE:** Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.

# Warning

- To avoid potential screen damage, such as panel peeling, ensure that the monitor does no t tilt downward by more than -5 degrees.
- 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. Power Switch
- 2. Power
- 3. HDMI-1
- 4. HDMI-2
- 5. DisplayPort
- 6. Earphone out

#### 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.
- 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.

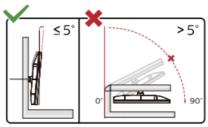


This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this procedure. Follow these steps:

- 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.

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



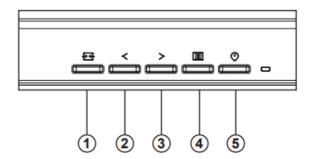
\* Display design may differ from those illustrated.

# **WARNING:**

- 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.

# **Adjusting**

## **Hotkeys**



1	Source/Auto/Exit
2	Clear Vision/<
3	Volume/>
4	Menu/Enter
5	Power

# Power

Press the Power button to turn on the monitor.

#### • Menu/Enter

When there is no OSD, Press to display the OSD or confirm the selection.

### Volume/>

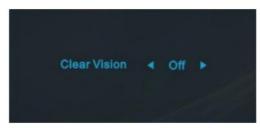
Press Volume button to active volume adjustment bar.

#### Source/Auto/Exit

When the OSD menu is off, press this key to activate the signal source switching function, press this key continuously to select the signal source displayed in the information bar, and press the menu key to adjust to the selected signal source. When the OSD menu is active, this button acts as an exit key (to exit the OSD menu)

#### **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.

	Off		
Clear Vision	Weak	- Adjust the Clear Vision	
Clear Vision	Medium		
	Strong		
Clear Vision Demo	On or Off	Disable or Enable Demo	

# **OSD Setting**

1. Basic and simple instruction on the control keys.



- 1. Press the MENU-button to activate the OSD window.
- 2. 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 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 MENU-button while the monitor is off and then press Dower 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 Dower button to turn the monitor on.

## Notes:

- 1. If the product has only one signal input, the item of "Input Select" is disable to adjust.
- 2. If the product screen size is 4:3 or input signal resolution is native resolution, the item of "Image Ratio" is disabled.
- 3. One of DCR, Color Boost and Picture Boost functions is activated, the other two function s are turned off accordingly.

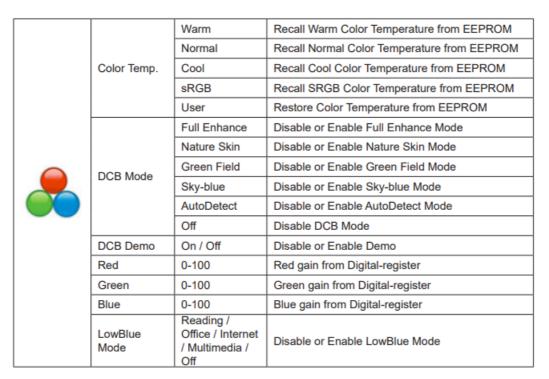
#### Luminance



	Contrast	0-100		Contrast from Digital-register	
	Brightness	0-100		Backlight Adjustment	
		Standard	<b>V</b>	Standard Mode	
		Text	T	Text Mode	
		Internet	<b>6</b>	Internet Mode	
	Eco mode	Game	**************************************	Game Mode	
	Eco mode	Movie	9	Movie Mode	
		Sports	30	Sports Mode	
		Reading	R	Reading Mode	
		Uniformity	#	Uniformity Mode	
	Gamma	Gamma1		Adjust to Gamma 1	
		Gamma2		Adjust to Gamma 2	
		Gamma3		Adjust to Gamma 3	
	DCR -	Off		Disable dynamic contrast ratio	
		On	DCR	Enable dynamic contrast ratio	
	HDR Mode	Off			
		HDR Picture		Adjust HDR Mode	
		HDR Movie		Aujust FIDIT Mode	
		HDR Game			

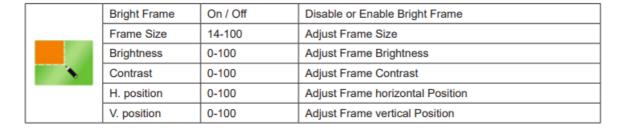
# **Color Setup**





## **Picture Boost**





**Note:** Adjust the brightness, contrast, and position of the Bright Frame for better viewing experience.

# **OSD Setup**



	Language		Select the OSD language
	Timeout	5-120	Adjust the OSD Timeout
	DP Capability	1.1 / 1.2	Select a compatible DP version. Please note that:  1. The Adaptive-Sync function is only available with DP1.2.  2. If the DP video content supports DP1.2, set the DP version to DP1.2; otherwise, select DP1.1.
	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

# **PIP Setting**



Refer to the table below for main/sub input source compability

Sub/Main	HDMI1	HDMI2	DP
HDMI1	Х	Х	V
HDMI2	Х	Х	V
DP	V	V	Х

PxP color-related adjustments can only be operated by main, and sub is not supported. So Main & sub will have different colors.

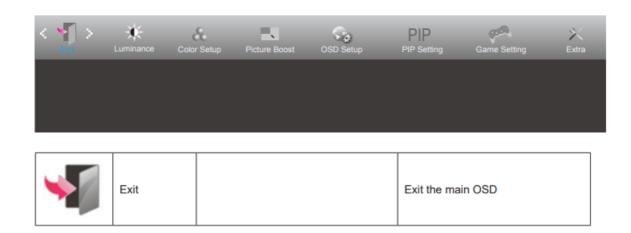
# **Game Setting**

Came Setting	Extra	Exit Luminance	Color Setup	Picture Boost OSD Setup PIP Setting	
Game Mode Shadow Control Low Input Lag	<ul><li>✓ Off</li><li>50</li><li>✓ On</li></ul>		✓ Off ✓ On	10 Frame Counter ◀ Off ▶ ▶ DialPoint ◀ On ▶ ▶	
	Game Mode	Off FPS RTS Racing Gamer1 Gamer2 Gamer3		No optimization by Smart image game For playing FPS (first Person Shooters) games. Improves dark theme black level details For playing RTS (Real Time Strategy). Improves the image quality For playing Racing games, Provides fastest response time and high color saturation User's preference settings saved as Gamer 1 User's preference settings saved as Gamer 2 User's preference settings saved as	
مننن	Shadow Control	0-100		Gamer 3 Shadow Control Default is 50, then enduser 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.	
	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	
		Off			
	Overdrive	Weak		Adjust the response time.	
	Overdrive	Medium		Aujust the response time.	
		Strong			
	Adaptive-Sync	On / Off		Adjust the Adaptive-Sync	
	Frame Counter	Off / Right-up / Right-l Down / Left-Up	Down / Left-	Display V frequency on the corner selected	
	DialPoint	On / Off		The "DialPoint" function places an ainming indicator in the center of screen for helping gamers to play First Person Shoot (FPS) games with an accurate and precise aiming.	

# Extra



01	Input Select	Auto/HDMI1/HDMI2/DP	Select Input Signal Source
	Off timer	0-24hrs	Select DC off time
	Image Ratio	Wide / 4:3 / 1:1 / movie1 / movie2	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	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 cable connected correctly?	
	(Connected using the HDMI cable) Check the HDMI cable connection. (Connected using the DP cable) Check the DP cable connection.	
	* HDMI/DP input is not available on every model.	
	If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.	
No images on the 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?	
	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 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	from the monitor as possible.	
Wave Pattern Appears In The 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.	
Monitor Is Stuck In Active Off-	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.	
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 / 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.	

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 to auto-adjust.

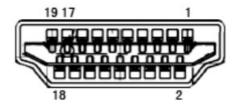
# **Specification**

**General Specification** 

	Model name		U34P2	
	Driving system		TFT Color LCD	
Panel	Viewable Image Size		86.7cm Diagonal	
ranei	Pixel Pitch		0.2325mm(H) x 0.2325mm(V)	
	Video		HDMI Interface & DP Interface	
	Display Color	rs .	16.7M	
	Horizontal Sc	an Range	30k-120kHz	
	Horizontal Sc	an Size(Maximum)	799.8mm	
	Vertical Scan	Range	48-75Hz	
	Vertical Scan	Size(Maximum)	334.8mm	
	Optimal Pres	etResolution	3440×1440@60Hz	
	Max Resolution		3440×1440@75Hz	
Others	Plug & Play		VESA DDC2B/CI	
	Input Connector		HDMI/DP	
	Power Source		100-240V~, 50/60Hz,1.5A	
	Power Cons umption	Typical (default brightn ess and contrast)	40W	
		Max. (brightness = 10 0, contrast =100)	≤ 68W	
	Standby mode		≤0.5W	
Physical Char	Connector Type		HDMIx2/DP/ Earphone	
acteristics	Signal Cable Type		Detachable	
	Temperature		Operating	0°~ 40°
			Non-Operating	-25°~ 55°
Environmental	Humidity		Operating	10% ~ 85% (non-condensing)
Liiviioiiiientai			Non-Operating	5% ~ 93% (non-condensing)
	Altitude		Operating	0~ 5000m (0~ 16404ft )
			Non-Operating	0~ 12192m (0~ 40000ft )

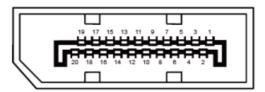
STANDARD	RESOLUTION	HORIZONTAL FREQ UENCY(kHz)	VERTICAL FREQUENC Y(Hz)
	640×480@60Hz	31.469	59.94
VGA	640×480@72Hz	37.861	72.809
	640×480@75Hz	37.5	75
	800×600@60Hz	37.879	60.317
SVGA	800×600@72Hz	48.077	72.188
	800×600@75Hz	46.875	75
	1024×768@60Hz	48.363	60.004
XGA	1024×768@70Hz	56.476	70.069
	1024×768@75Hz	60.023	75.029
SXGA	1280×1024@60Hz	63.981	60.020
SAGA	1280×1024@75Hz	79.976	75.025
WXGA+	1440×900@60Hz	55.935	59.887
WAGA	1440×900@60Hz	31.469 37.861 37.5 37.879 48.077 46.875 48.363 56.476 60.023 63.981 79.976	59.901
WSXGA	1680×1050@60Hz	65.290	59.954
Woxan	1680×1050@60Hz	64.674	59.883
FHD	1920×1080@60Hz	67.5	60
***	1152×864@75Hz	67.5	75
	1280×960@60Hz	60	60
WFHD	2560×1080@60Hz	66	60
VVIIIB	2560×1080@50Hz	56.25	50
MOLID	3440×1440@60Hz	56.476 60.023 63.981 79.976 55.935 55.469 65.290 64.674 67.5 67.5 60 66 56.25 89.819 111.788	59.973
WQHD	3440×1440@75Hz		74.925
IBM MODES			
DOS	640×350@70Hz	31.469	70.087
DOS	720×400@70Hz	31.469	70.087
MAC MODES			
VGA	640×480@67Hz	35.000	66.667
SVGA	832×624@75Hz	49.725	74.551

# **Pin Assignments**



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.

#### www.aoc.com

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#### **Documents / Resources**



AOC U34P2 LCD Frameless Monitor [pdf] User Manual U34P2 LCD Frameless Monitor, U34P2, LCD Frameless Monitor, Frameless Monitor, Monitor

#### References

- ✓ Home AOC Monitor
- User Manual

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