JOC

LCD Monitor User Manual

24B1XH2/27B1H2



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Safety

National Conventions

The following subsections describe notational conventions used in this document.

Notes, Cautions, and Warnings

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



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



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



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

Power

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

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.



For use only with the attached power adapter.

Manufacturers: L&T DISPLAY TECHNOLOGY(FUJIAN)LTD.

Model: STK025-19131T Input:100-240VAC 50/60Hz Max0.7A, Output:19VDC,1.31A

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.

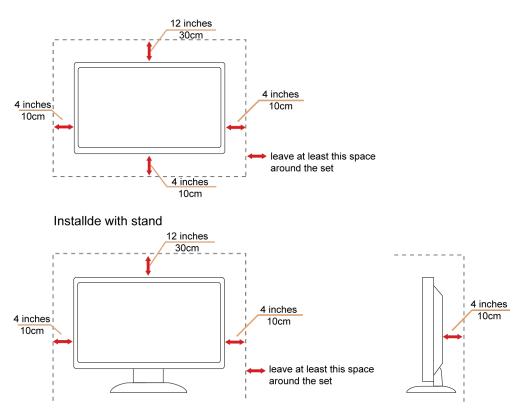
If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

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:

Installde on the wall

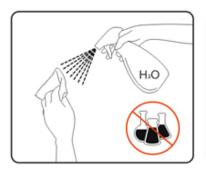


Cleaning

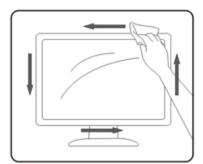
Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

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.



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



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

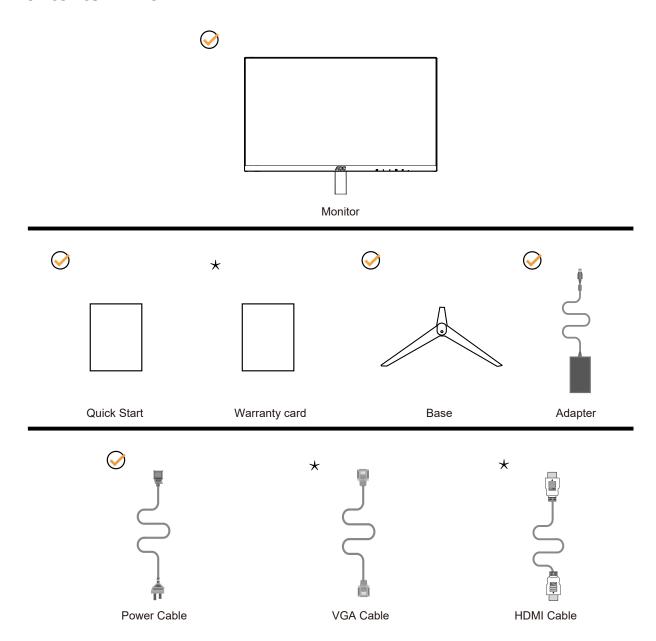


1 Do not knock or drop the monitor during operation or transportation.

For display with glossy bezel the user should consider the placement of the display as the bezel may cause disturbing reflections from surrounding light and bright surfaces.

Setup

Contents in Box

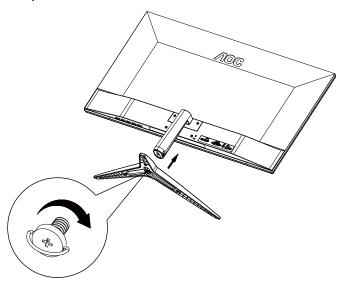


Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

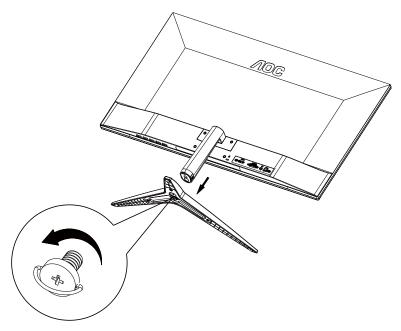
Setup Stand & Base

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

Setup:



Remove:

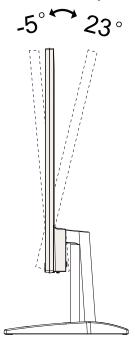


Adjusting Viewing Angle

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

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

You are able to adjust the monitor as below:





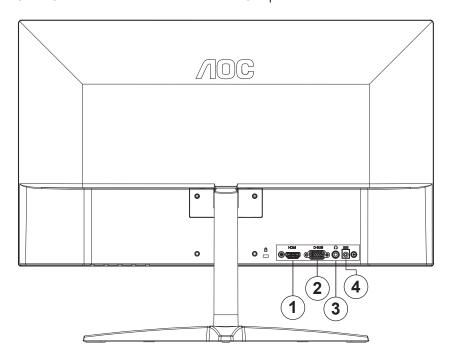
Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.

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.

Connecting the Monitor

Cable Connections In Back of Monitor and Computer:



- 1. HDMI
- 2. Analog (D-Sub 15-Pin VGA cable)
- 3. Earphone
- 4. Power

Connect to PC

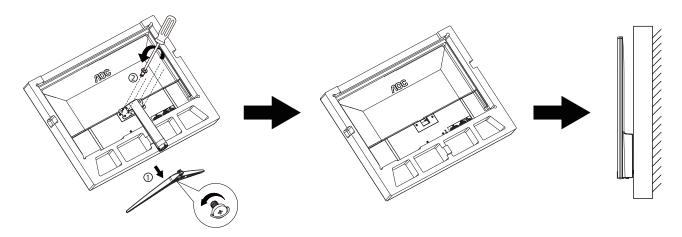
- 1. Connect the power cord to the back of the display firmly.
- 2. Turn off your computer and unplug its power cable.
- 3. Connect the display signal cable to the video connector on the back of your computer.
- 4. Plug the power cord of your computer and your display into a nearby outlet.
- 5. Turn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

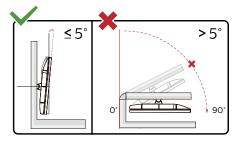
Preparing to Install An Optional Wall Mounting Arm.



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.



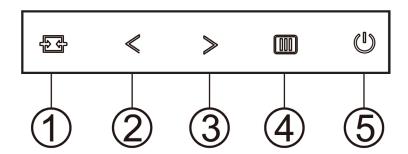
* Display design may differ from those illustrated.

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/Image ratio/>
4	Menu/Enter
5	Power

Menu/Enter

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

Power

Press the Power button to turn on the monitor.

Volume/Image ratio

When there is no OSD, Press > Volume button to active volume adjustment bar, Press < or > to adjust volume. When there is no OSD, Press > hotkey to active image ratio, Press < or > to adjust 4:3 or wide. (If the product screen size is 4:3 or input signal resolution is wide format, the hot key is disable to adjust).

Source/Auto/Exit

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

When the OSD is closed, press Source/Auto/Exit button continuously about 2 second to do auto configure (Only for the models with D-Sub).

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	A divert the Class Vision
	Medium	Adjust the Clear Vision
	Strong	
Clear Vision Demo	on or off	Disable or Enable Demo

OSD Setting

Basic and simple instruction on the control keys.



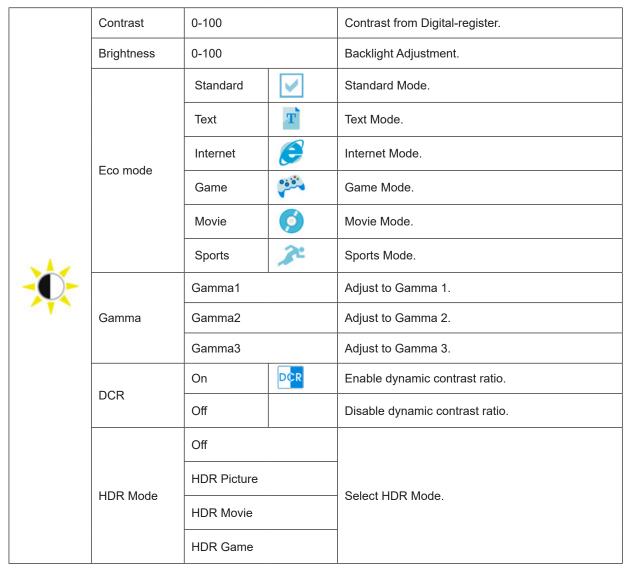
- 1). Press the **IIII MENU-button** to activate the OSD window.
- 2). Press < Left or > Right to navigate through the functions. Once the desired function is highlighted, press the III MENU-button to activate it, press < Left or > Right to navigate through the sub-menu functions. Once the desired function is highlighted, press IIII MENU-button to activate it.
- 3). Press < Left or > to change the settings of the selected function. Press + to exit. If you want to adjust any other function, repeat steps 2-3.
- 4). OSD Lock Function: To lock the OSD, press and hold the III MENU-button while the monitor is off and then press U power button to turn the monitor on. To un-lock the OSD press and hold the III MENU-button while the monitor is off and then press U power button to turn the monitor on.

Notes:

- 1). If the product has only one signal input, the item of "Input Select" is disable to adjust.
- 2). If the product screen size is 4:3 or input signal resolution is native resolution, the item of "Image Ratio" is disabled.
- 3). Clear Vision, DCR, DCB mode and Picture Boost, for these four states that only one state can exist.

Luminance



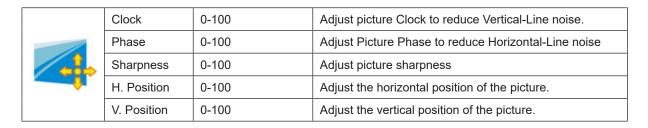


Note:

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

Image Setup





Color Setup



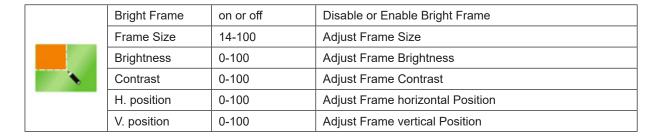
		Warm		Recall Warm Color Temperature from EEPROM.
		Normal		Recall Normal Color Temperature from EEPROM.
	Color Temp.	Cool		Recall Cool Color Temperature from EEPROM.
		sRGB		Recall SRGB Color Temperature from EEPROM.
		User		Restore Color Temperature from EEPROM.
		Full Enhance		Disable or Enable Full Enhance Mode
	DCB Mode	Nature Skin		Disable or Enable Nature Skin Mode
		Green Field		Disable or Enable Green Field Mode
		Sky-blue		Disable or Enable Sky-blue Mode
		AutoDetect		Disable or Enable AutoDetect Mode
		Off		Disable or Enable Off Mode
	DCB Demo		On or Off	Disable or Enable Demo
	Red		0-100	Red gain from Digital-register.
	Green		0-100	Green gain from Digital-register.
	Blue		0-100	Blue gain from Digital-register.

Note:

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

Picture Boost





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
C	V. Position	0-100	Adjust the vertical position of OSD
-30	Transparence	0-100	Adjust the transparence of OSD
	Break Reminder	on or off	Break reminder if the user continuously work for more
Break Reminder		011 01 011	than 1hrs

Game Setting



	T		
		Off	No optimization by Smart image game
		FPS	For playing FPS (first Person Shooters) games. Improves dark theme black level details.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
	Game Mode	Racing	For playing Racing games, Provides fastest response time and high color saturation.
		Gamer 1	User's preference settings saved as Gamer 1.
		Gamer 2	User's preference settings saved as Gamer 2.
		Gamer 3	User's preference settings saved as Gamer 3.
	Shadow Control	0-100	Shadow Control Default is 50, then end-user can adjust from 50 to 100 or 0 to increase contrast for clear picture. 1. If picture is too dark to be saw the detail clearly, adjusting from 50 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
		Weak	
600	Overdrive	Medium	
-		Strong	Adjust the response time.
_		Off	
	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 temperature.
	Dial Point	On or Off	The "Dial Point" function places an aiming indicator in the center of screen for helping gamers to play First Person Shooter (FPS) games with an accurate and precise aiming.
	Adaptive-Sync	On or Off	Disable or Enable Adaptive-Sync.c Adaptive-Sync Run Reminder: When the Adaptive-Sync feature is enabled, there may be flashing in some game environments.
	Frame Counter	Off / Right-up / Right- Down / Left-Down / Left-Up	Display V frequency on the corner selected

Note:

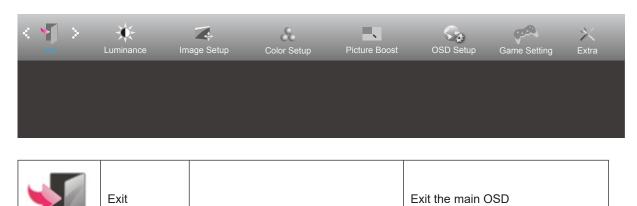
When "HDR Mode" under "Luminance" is set to "non-off", the items "Game Mode", "Shadow Control", "Game Color", "Low Blue Mode" cannot be adjusted.

Extra



	Input Select		Select Input Signal Source
	Auto Config.	Yes or No	Auto adjust the picture to default.
	Off timer	0-24hrs	Select DC off time
	Income Datio	Wide	Calcat image ratio for display
	Image Ratio	4:3	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

Exit



LED Indicator

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

Troubleshoot

Problem & Question	Possible Solutions		
Power LED Is Not ON	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.		
No images on the screen	 Is the power cord connected properly? Check the power cord connection and power supply. Is the cable connected correctly? (Connected using the VGA cable) Check the VGA cable connection. (Connected using the HDMI cable) Check the HDMI cable connection. * VGA/HDMI input is not available on every model. If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen. If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows 7/8/10) and then change the frequency of the video card. (Refer to the Setting the Optimal Resolution) If the initial screen (the login screen) does not appear, contact the Service Center or your dealer. Can you see "Input Not Supported" on the screen? You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly. Adjust the maximum resolution and frequency that the monitor can handle properly. Make sure the AOC Monitor Drivers are installed. 		
Picture Is Fuzzy & Has Ghosting Shadowing Problem	Adjust the Contrast and Brightness Controls. Press to auto adjust. Make sure you are not using an extension cable or switch box. We recommend plugging the monitor directly to the video card output connector on the back.		
Picture Bounces, Flickers Or Wave Pattern Appears In The Picture	Move electrical devices that may cause electrical interference as far away from the monitor as possible. Use the maximum refresh rate your monitor is capable of at the resolution you are using.		
Monitor Is Stuck In Active Off- Mode" The Computer Power Switch should be in the ON position. The Computer Video Card should be snugly fitted in its slot. Make sure the monitor's video cable is properly connected to the collapsect the monitor's video cable and make sure no pin is bent. Make sure your computer is operational by hitting the CAPS LOCK keyboard while observing the CAPS LOCK LED. The LED should eight of 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 (24B1XH2)

	Model name	24B1XH2			
	Driving system	TFT Color LCD			
Panel	Viewable Image Size	60.47cm diagonal			
	Pixel pitch	0.2745(H)mm x 0.2745(V) mm			
	Separate Sync	H/V TTL			
	Display Color	16.7M Colors			
	Horizontal scan range	30k~83kHz (D-SUB) 30k~125kHz (HDMI)			
	Horizontal scan Size(Maximum)	527.04 mm			
	Vertical scan range	50~76Hz (D-SUB) 48~100Hz (HDMI)			
	Vertical Scan Size(Maximum)	296.46 mm			
	Optimal preset resolution	1920x1080@60Hz			
Others	Max resolution	1920x1080@60Hz (D-SUB)			
		1920x1080@100Hz (HDMI)			
	Plug & Play	VESA DDC2B/CI			
	Power Source	19Vdc,1.31A			
		Typical(default brightness	20W		
	Power Consumption	Max. (brightness = 100, contrast =100)		≤23W	
		Standby mode		≤0.3W	
Physical	Connector Type	HDMI/D-Sub/Earphone ou	ıt		
Characteristics	Signal Cable Type	Detachable			
	T	Operating	0°C~ 40°C		
	Temperature	Non-Operating -25°C~ 55°C			
<u>.</u>		Operating 10% ~ 85% (no		non-condensing)	
Environmental	Humidity	Non-Operating 5% ~ 93% (non-condensing)		on-condensing)	
	A LUT	Operating 0~ 5000 m (0~ 16404ft)		~ 16404ft)	
	Altitude	Non-Operating	0~ 12192m (0~ 40000ft)		

General Specification (27B1H2)

	Model name	27B1H2		
	Driving system	TFT Color LCD		
Panel	Viewable Image Size	68.6cm diagonal		
	Pixel pitch	0.3114(H)mm x 0.3114(V) mm		
	Separate Sync	H/V TTL		
	Display Color	16.7M Colors		
	Horizontal scan range	30k~85kHz (D-SUB) 30k~125kHz (HDMI)		
	Horizontal scan Size(Maximum)	597.89 mm		
	Vertical scan range	48~75Hz (D-SUB) 48~100Hz (HDMI)		
	Vertical Scan Size(Maximum)	336.31 mm		
	Optimal preset resolution	1920x1080@60Hz		
Others	Max resolution	1920x1080@60Hz (D-SUB)		
		1920x1080@100Hz (HDMI)		
	Plug & Play	VESA DDC2B/CI		
	Power Source	19Vdc,1.31A		
		Typical(default brightness and contrast)		20W
	Power Consumption	Max. (brightness = 100, contrast =100)		≤25W
		Standby mode		≤0.3W
Physical	Connector Type	HDMI/D-Sub/Earphone ou	ıt	
Characteristics	Signal Cable Type	Detachable		
	T	Operating	0°C~ 40°C	
	Temperature	Non-Operating -25°C~ 55°C		
F	11	Operating 10% ~ 85% (non-co		non-condensing)
Environmental	Humidity	Ion-Operating 5% ~ 93% (non-condensity		on-condensing)
	Aut	Operating 0~ 5000 m (0~ 16404ft)		~ 16404ft)
	Altitude	Non-Operating	0~ 12192m (0)~ 40000ft)

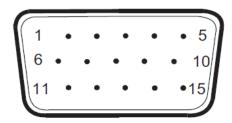
Preset Display Modes

STANDARD	RESOLUTION (±1Hz)	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)
	640x480@60Hz	31.469	59.94
VGA	640x480@72Hz	37.861	72.809
	640x480@75Hz	37.5	75
MAC MODES VGA	640x480@67Hz	35	66.667
IBM MODE	720x400@70Hz	31.469	70.087
	800x600@56Hz	35.156	56.25
SVGA	800x600@60Hz	37.879	60.317
SVGA	800x600@72Hz	48.077	72.188
	800x600@75Hz	46.875	75
MAC MODES SVGA	835x624@75Hz	49.725	74.5
	1024x768@60Hz	48.363	60.004
XGA	1024x768@70Hz	56.476	70.069
	1024x768@75Hz	60.023	75.029
SXGA	1280x1024@60Hz	63.981	60.02
SAGA	1280x1024@75Hz	79.976	75.025
WSXG	1280x720@60HZ	45	60
WSAG	1280x960@60Hz	60	60
WXGA+	1440x900@60Hz	55.935	59.876
WSXGA+	1680x1050@60Hz	65.29	59.954
FHD	1920x1080@60Hz	67.5	60
FHD (HDMI)	1920x1080@75Hz	83.9	75
FHD (HDMI)	1920x1080@100Hz	109.923	99.93

Note:

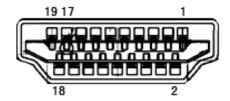
According to the VESA standard, different operating systems and graphics cards may have certain errors (+/-1Hz) on resoution. Actual please refer to the actual product.

Pin Assignments



15-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name
1.	Video-Red	9	+5V
2.	Video-Green	10	Ground
3.	Video-Blue	11	N.C.
4.	N.C.	12	DDC-Serial data
5.	Detect Cable	13	H-sync
6.	GND-R	14	V-sync
7.	GND-G	15	DDC-Serial clock
8.	GND-B		



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		

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.