



LCD Monitor User Manual

24P2C



Safety	
National Conventions	1
Power	2
Installation	3
Cleaning	4
Other	5
Setup	6
Contents in Box	6
Setup Stand & Base	7
Adjusting Viewing Angle	8
Connecting the Monitor	9
Wall Mounting	10
Adaptive-Sync function	11
Adjusting	12
Hotkeys	12
OSD Setting	14
Luminance	15
Color Setup	
Picture Boost	17
OSD Setup	18
Game Setting	19
Extra	20
Exit	21
LED Indicator	21
Troubleshoot	22
Specification	23
General Specification	23
Preset Display Modes	24
Pin Assignments	25
Plug and Play	26

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.

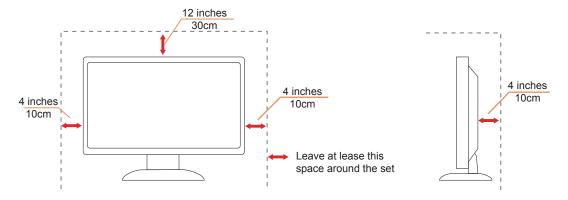
If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

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

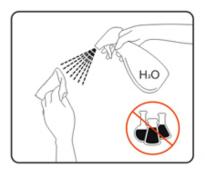


Cleaning

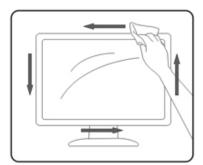
Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

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.



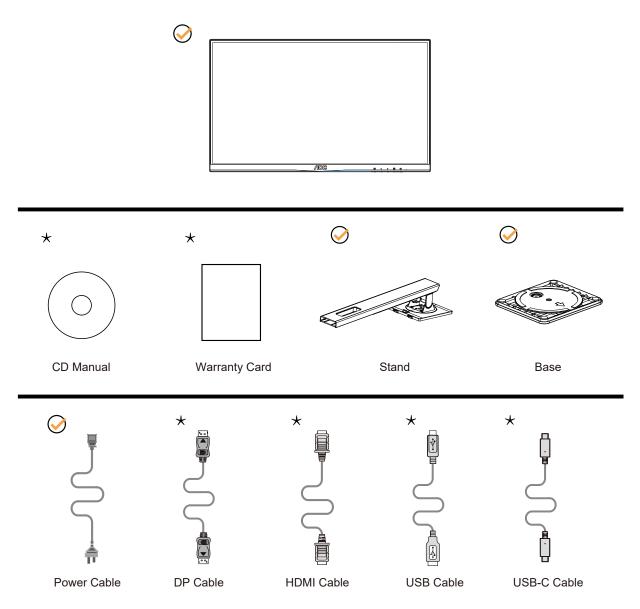
♠ Do not engage the LCD monitor in severe vibration or high impact conditions during operation.



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

Setup

Contents in Box

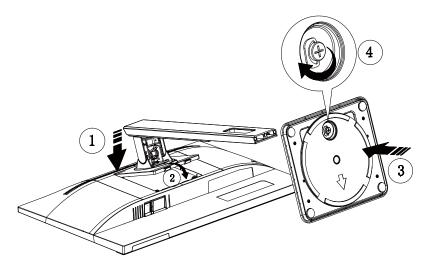


Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

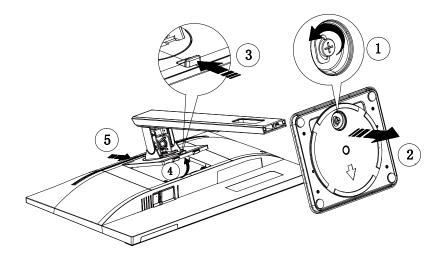
Setup Stand & Base

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

Setup:



Remove:

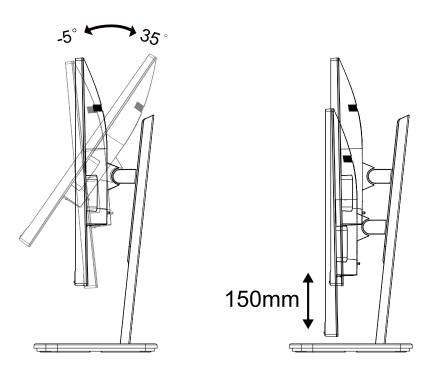


Adjusting Viewing Angle

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:





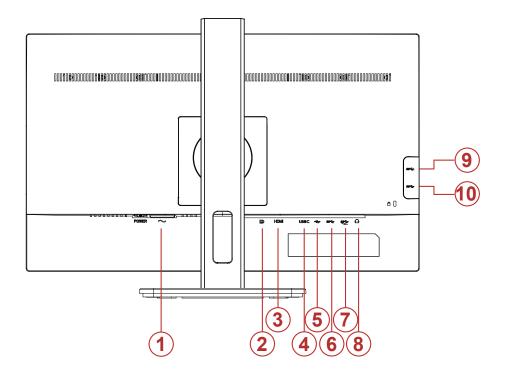
Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.

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

Connect to PC

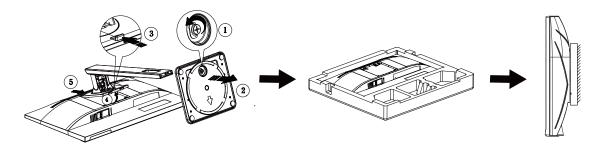
- 1. Connect the power cord to the back of the display firmly.
- 2. Turn off your computer and unplug its power cable.
- 3. Connect the display signal cable to the video connector on the back of your computer.
- 4. Plug the power cord of your computer and your display into a nearby outlet.
- 5. Turn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

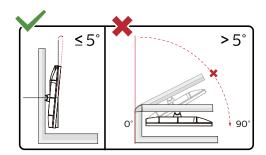
Preparing to Install An Optional Wall Mounting Arm.



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:

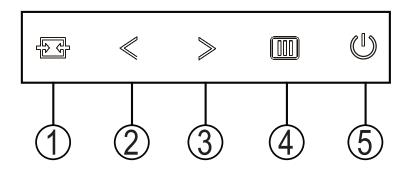
- 1. To avoid potential screen damage, such as panel peeling, ensure that the monitor does not tilt downward by more than -5 degrees.
- 2. Do not press the screen while adjusting the angle of the monitor. Grasp only the bezel.

Adaptive-Sync function

- 1. Adaptive-Sync function is working with DP/HDMI
- 2. Compatible Graphics Card: Recommend list is as the below, also could be checked by visiting www.AMD.com
- Radeon™ RX Vega series
- Radeon™ RX 500 series
- Radeon™ RX 400 series
- Radeon™ R9/R7 300 series (R9 370/X, R7 370/X, R7 265 except)
- Radeon™ Pro Duo (2016)
- Radeon™ R9 Nano series
- Radeon™ R9 Fury series
- Radeon™ R9/R7 200 series (R9 270/X, R9 280/X except)

Adjusting

Hotkeys



1	Source/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

When there is no OSD, Press > Volume button to active volume adjustment bar, Press < or > to adjust volume.

Source/Exit

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

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.

OSD Setting

Basic and simple instruction on the control keys.



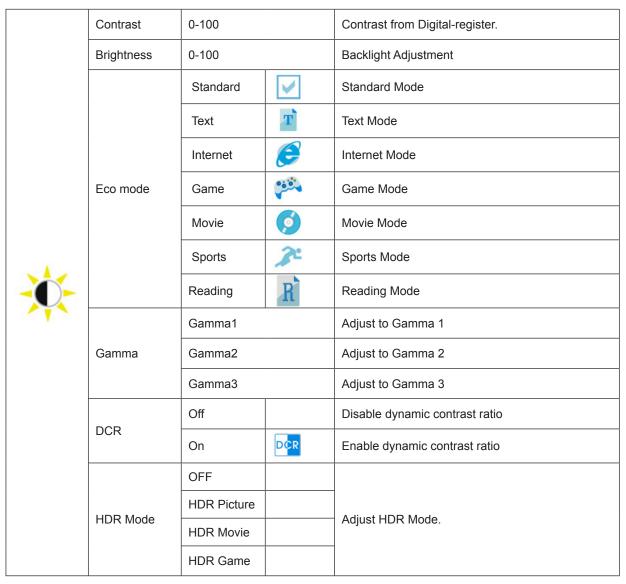
- 1). Press the MENU-button to activate the OSD window.
- 2). Press < or > to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate it, press < or > to navigate through the sub-menu functions. Once the desired function is highlighted, press **MENU-button** to activate it.
- 3). Press < or > 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 adjust.
- 2). DCR, Color Boost and Picture Boost, for these states that only one state can exist

Luminance





Note:

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

Color Setup



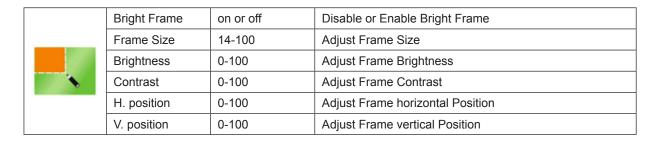
		Warm		Recall Warm Color Temperature from EEPROM.
		Normal		Recall Normal Color Temperature from EEPROM.
	Color Temp.	Cool		Recall Cool Color Temperature from EEPROM.
		sRGB		Recall SRGB Color Temperature from EEPROM.
		User		Restore Color Temperature from EEPROM.
		Full Enhance	On or Off	Disable or Enable Full Enhance Mode
	DCB 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
		Off	On or 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
	USB on or off		For model need to turn on/off USB power during power saving
	H. Position	0-100	Adjust the horizontal position of OSD
	V. Position	0-100	Adjust the vertical position of OSD
	USB Selection	Auto /USB C/ USB up	*Auto : switch with display input source *USB C / USB up : fix up stream not change with input source
	Transparence	0-100	Adjust the transparence of OSD
	Break Reminder	on or off	Break reminder if the user continuously work for more than 1hrs

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.	
	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.	
		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 pictur 1. If picture is too dark to be saw the detail clearly, adjusting from 50 to100 for clear picture. 2. If picture is too white to be saw the detail clearly, adjusting from 50 to0 for clear picture	
محرف		Weak		
V	Overdrive	Medium	Adjust the response time.	
		Strong	Adjust the response time.	
		Off		
	Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.	
	Low Blue Mode	Reading / Office / Internet / Multimedia / Off	Decrease blue light wave by controlling color temperature.	
	DialPoint	On/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/Off	Adjust the Adaptive-Sync	
	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	
	Off timer	0-24hrs	Select DC off time	
	Image Ratio	Wide	Calcat image ratio for display	
	illiage Natio	4:3	Select image ratio for display.	
DDC/CI y		yes or no	Turn ON/OFF DDC/CI Support	
	Reset	yes or no	Reset the menu to default. (ENERGY STAR® available for selective	
	Reset	ENERGY STAR® or no	models.)	

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. (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), 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 computer. Inspect the monitor's video cable and make sure no pin is bent. Make sure your computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.
Missing one of the primary colors (RED, GREEN, or BLUE)	Inspect the monitor's video cable and make sure that no pin is damaged. Make sure the monitor's video cable is properly connected to the computer.
Screen image is not centered or sized properly	Adjust H-Position and V-Position or press hot-key (AUTO).
Picture has color defects (white does not look white)	Adjust RGB color or select desired color temperature.
Horizontal or vertical disturbances on the screen	Use Windows 7/8/10 shut-down mode to adjust CLOCK and FOCUS. Press to auto-adjust.
Regulation & Service	Please refer to Regulation & Service Information which is in the CD manual or www.aoc.com (to find the model you purchase in your country and to find Regulation & Service Information in Support page.)

Specification

General Specification

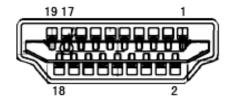
	Model name	24P2C				
	Driving system	TFT Color LCD				
	Viewable Image Size	60.47 cm diagonal	0.47 cm diagonal			
Panel	Pixel pitch	0.2745mm(H) x 0.2745mi	m(V)			
	Video	HDMI Interface & DP Inte				
	Separate Sync	H/V TTL				
	Display Color	16.7M Colors				
	Horizontal scan range	30-85kHz				
	Horizontal scan Size(Maximum)	527.04 mm				
	Vertical scan range	48-75Hz				
	Vertical Scan Size(Maximum)	296.46 mm				
	Optimal preset resolution	1920x1080@60Hz				
	Max resolution	1920x1080@75Hz				
Others	Plug & Play	VESA DDC2B/CI				
Others	Input Connector	HDMI/DP/USB				
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS				
	Output Connector	Earphone out				
	Power Source	100-240V~, 50/60Hz,1.5A				
		Typical(Brightness = 90,Contrast = 50)		23W		
	Power Consumption	Max. (brightness = 100, contrast =100)		≤148W		
		Standby mode < 0.5W				
Physical	Connector Type	HDMI/DP/USB/Earphone out				
Characteristics	Signal Cable Type	Detachable				
	Temperature	Operating	0°~ 40°			
	Temperature	Non-Operating	-25°~ 55°			
Environmental	Humidity	Operating	10% ~ 85% (non-c			
Liviioiiiiciitai	Tarridity	Non-Operating	on-Operating 5% ~ 93% (non-condensing)			
	Altitude	Operating 0~ 5000 m (0~ 16404ft)				
	, unideo	Non-Operating	0~ 12192m (0~ 40	000ft)		



Preset Display Modes

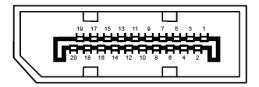
RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)			
640x480@60Hz	31.469	59.94			
640x480@72Hz	37.861	72.809			
640x480@75Hz	37.5	75			
800x600@56Hz	35.156	56.25			
800x600@60Hz	37.879	60.317			
800x600@75Hz	46.875	75			
1024x768@60Hz	48.363	60.004			
1024x768@70Hz	56.476	70.069			
1024x768@75Hz	60.023	75.029			
1280x1024@60Hz	63.981	60.02			
1280x1024@75Hz	79.976	75.025			
1440x900@60Hz	55.935	59.887			
1440x900@60Hz	55.469	59.901			
1680x1050@60Hz	65.29	59.954			
1680x1050@60Hz	64.674	59.883			
1920x1080@60Hz	67.5	60			
1920x1080@75Hz	83.895	74.973			
IBM MODES					
640x350@70Hz	31.469	70.087			
720x400@70Hz	31.469	70.087			
MAC MC	DDES				
1024x768@75Hz	60.241	74.927			
	640x480@60Hz 640x480@72Hz 640x480@75Hz 800x600@56Hz 800x600@60Hz 800x600@75Hz 1024x768@60Hz 1024x768@70Hz 1024x768@75Hz 1280x1024@60Hz 1280x1024@60Hz 1440x900@60Hz 1680x1050@60Hz 1680x1050@60Hz 1920x1080@60Hz 1920x1080@75Hz IBM MC 640x350@70Hz 720x400@70Hz MAC MC	RESOLUTION FREQUENCY(kHz) 640x480@60Hz 31.469 640x480@72Hz 37.861 640x480@75Hz 37.5 800x600@56Hz 35.156 800x600@60Hz 37.879 800x600@75Hz 46.875 1024x768@60Hz 48.363 1024x768@70Hz 56.476 1024x768@75Hz 60.023 1280x1024@60Hz 63.981 1280x1024@75Hz 79.976 1440x900@60Hz 55.935 1440x900@60Hz 55.469 1680x1050@60Hz 65.29 1680x1050@60Hz 67.5 1920x1080@75Hz 83.895 IBM MODES 640x350@70Hz 31.469 MAC MODES			

Pin Assignments



19-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1.	TMDS Data 2+	9.	TMDS Data 0-	17.	DDC/CEC Ground
2.	TMDS Data 2 Shield	10.	TMDS Clock +	18.	+5V Power
3.	TMDS Data 2-	11.	TMDS Clock Shield	19.	Hot Plug Detect
4.	TMDS Data 1+	12.	TMDS Clock-		
5.	TMDS Data 1Shield	13.	CEC		
6.	TMDS Data 1-	14.	Reserved (N.C. on device)		
7.	TMDS Data 0+	15.	SCL		
8.	TMDS Data 0 Shield	16.	SDA		



20-Pin Color Display Signal Cable

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

Plug and Play

Plug & Play DDC2B Feature

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

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