

# LCD Monitor User Manual 24E1Q/24P1U/24P1/X24P1

LED backlight



Safety	3
National Conventions	3
Power	4
Installation	5
Cleaning	6
Other	7
Setup	8
Contents in Box	8
Setup Base	9
Adjusting the monitor	10
Connecting the Monitor	11
Wall Mounting	13
Adjusting	14
Hotkeys	14
OSD Setting	17
Luminance	18
Image Setup	19
Color Setup	20
Picture Boost	21
OSD Setup	22
Extra	23
Exit	24
LED Indicator	24
Troubleshoot	25
Specification	27
General Specification	27
Preset Display Modes	31
Pin Assignments	32
Plug and Play	34

# 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.

Lo ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V ~, 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.

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 with the stand:

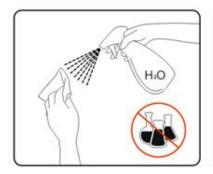
#### Installde on the wall 12 inches 30cm 4 inches 4 inches 10cm 10cm 10cm leave at least this space around the set 4 inches 10cm Installde with stand 12 inches 30cm 4 inches 4 inches 10cm 4 inches 10cm 10cm leave at least this space around the set

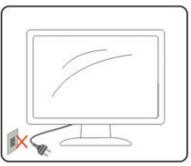
# Cleaning

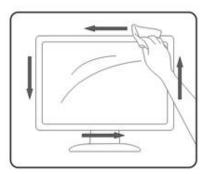
Clean the cabinet regularly with cloth. You can use soft-detergent to wipe out the stain, instead of strong-detergent which will cauterize the product cabinet.

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.

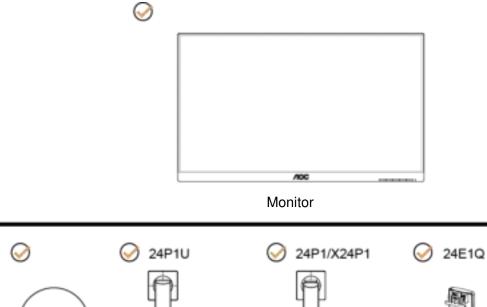
Do not engage the LCD monitor in severe vibration or high impact conditions during operation.

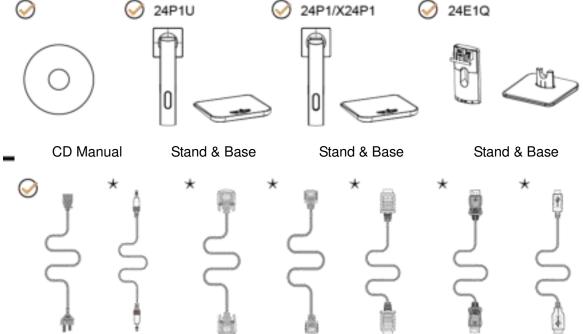
Do not knock or drop the monitor during operation or transportation.

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**





Power Cable Audio Cable DVI Cable Analog Cable HDMI Cable DP Cable USB Cable

Not all signal cables (Audio, DVI, Analog, HDMI, DP, USB cables), CD manual will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

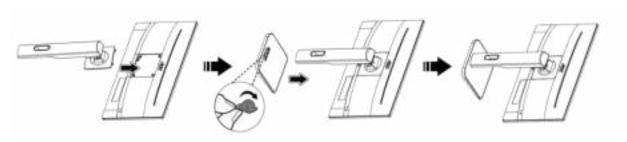
# **Setup Base**

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

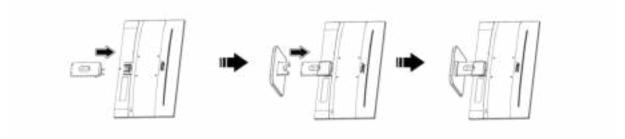
Please place the monitor on a soft and flat surface to prevent the scratch.

Setup:

#### 24P1/24P1U/X24P1

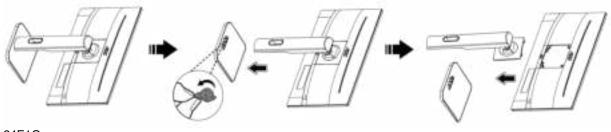


#### 24E1Q

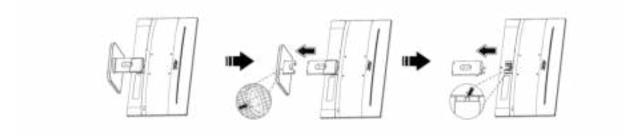


#### Remove:

#### 24P1U/24P1/X24P1



24E1Q

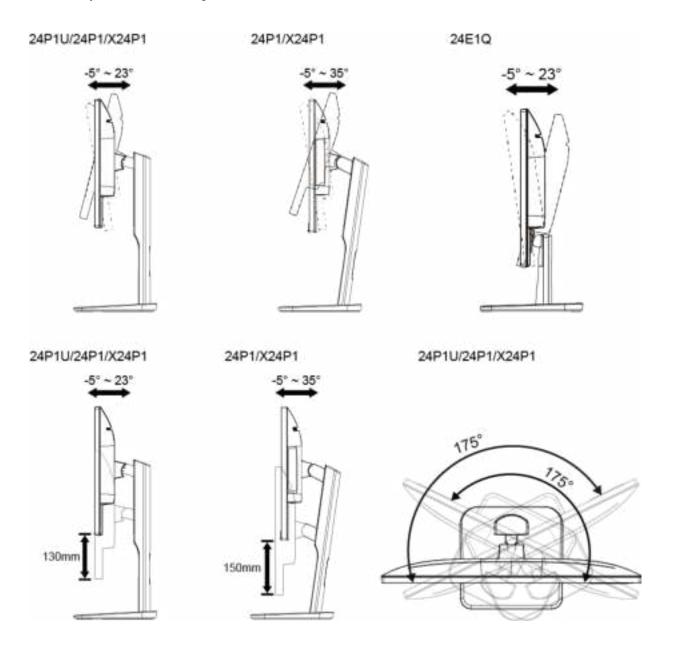


# Adjusting the monitor

For optimal viewing, it is recommended to look at the full face of the monitor, and 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 can adjust the monitor's angle from  $-5^{\circ}$  to  $+23^{\circ}$  and it allows  $175^{\circ}$  swivel adjustment from either left or right. *You* can also adjust the monitor's height within +/-130mm.



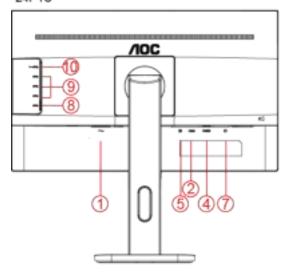


Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.

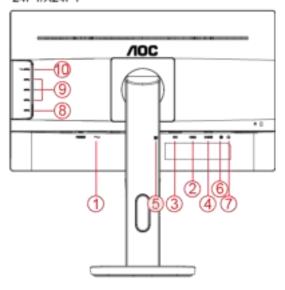
# **Connecting the Monitor**

Cable Connections In Back of Monitor and Computer:

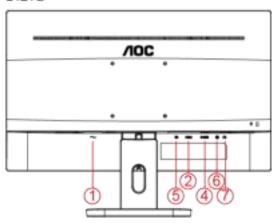
#### 24P1U



#### 24P1/X24P1



#### 24E1Q



- 1 Power
- 2 HDMI
- 3 DVI
- 4 Analog (D-Sub 15-Pin VGA cable)
- 5 DP
- 6 Audio in
- 7 Earphone out
- 8 USB upstream
- 9 USB downstream
- 10 USB charging

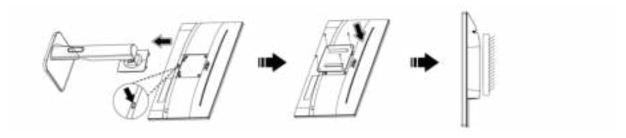
To protect equipment, always turn off the PC and LCD monitor before connecting.

- 1. Connect the power cable to the AC port on the back of the monitor.
- 2. Connect one end of the 15-pin D-Sub cable to the back of the monitor and connect the other end to the computer's D-Sub port.
- 3. (Optional Requires a video card with HDMI port) Connect one end of the HDMI cable to the back of the monitor and connect the other end to the computer's HDMI port.
- 4. (Optional Requires a video card with DVI port) Connect one end of the DVI cable to the back of the monitor and connect the other end to the computer's DVI port.
- 5. (Optional Requires a video card with DP port) Connect one end of the DP cable to the back of the monitor and connect the other end to the computer's DP port.
- 6. (Optional Requires a video card with USB port) Connect one end of the USB cable to the back of the monitor and connect the other end to the computer's USB port.
- 7. (Optional)Connect the audio cable to audio in port on the back of the monitor
- 8. Turn on your monitor and computer.
- 9. Video content supporting resolution: VGA/DVI/HDMI/DP

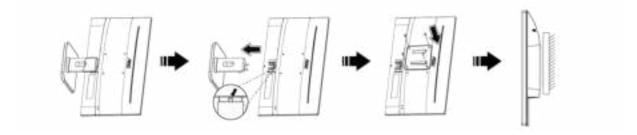
If your monitor displays an image, installation is complete. If it does not display an image, please refer Troubleshooting.

# **Wall Mounting**

Preparing to Install An Optional Wall Mounting Arm. 24P1/24P1U/X24P1



24E1Q



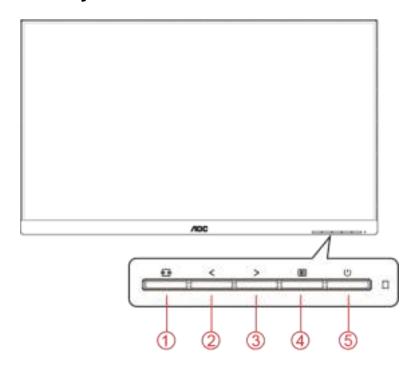
This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this procedure. Follow these steps:

- 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.

# **Adjusting**

# **Hotkeys**



#### 24P1U

1	Source/Auto/Exit
2	Clear Vision/-
3	Volume / Image Ratio/+
4	Menu/Enter
5	Power

#### 24P1/X24P1/24E1Q

1	Source/Auto/Exit
2	Clear Vision/-
3	Volume/+
4	Menu/Enter
5	Power

#### Source/Auto/Exit

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

#### Volume

When there is no OSD, press " > "to active volume adjustment bar, press < or > to adjust volume (Only for the models with Audio)

#### Menu/Enter

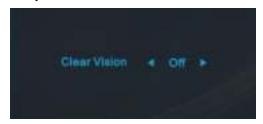
When there is no OSD, Press to display the OSD or confirm the selection. Press about 2 second to turn off the monitor

#### **Power**

Press the Power button to turn on the monitor.

#### **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.



- Press the MENU-button to activate the OSD window.
- 2. Press **or or** to navigate through the functions. Once the desired function is highlighted, press the to activate it. If there is a sub-menu, press **I** to navigate through the sub-menu functions.
- 3. Press < 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 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 disabled.
- 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 Clear vision, DCR, Color Boost, and Picture Boost functions is activated; the other three functions are turned off accordingly.

### Luminance



	Contrast	0-100		Contrast from Digital-register.	
	Brightness	0-100		Backlight Adjustment	
		Standard	<	Standard Mode	
		Text	T	Text Mode	
	Eco mode	Internet	<b>@</b>	Internet Mode	
	Eco mode	Game		Game Mode	
1		Movie	0	Movie Mode	
-0-		Sports	35	Sports Mode	
	Gamma	Gamma1		Adjust to Gamma 1	
		Gamma2		Adjust to Gamma 2	
		Gamma3		Adjust to Gamma 3	
	DCR Off On	Off		Disable dynamic contrast ratio	
		On	DCR	Enable dynamic contrast ratio	
		Weak			
	Overdrive	Medium		Adjust the response time	
	Overdrive	Strong		Adjust the response time.	
		Off			

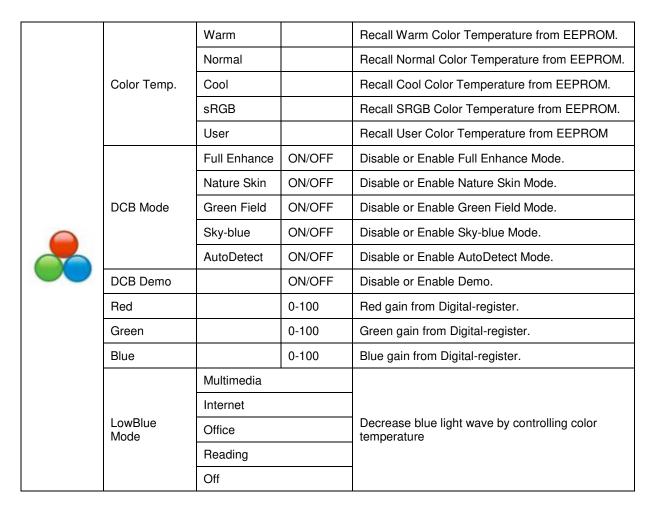
### Image Setup



Clock	0-100	Adjust picture Clock to reduce Vertical-Line noise.
Phase	0-100	Adjust Picture Phase to reduce Horizontal-Line noise.
Sharpness	0-100 Adjust picture sharpness.	
H.Position 0-100 Adjust the horizontal position of the picture		Adjust the horizontal position of the picture.
V.Position	0-100	Adjust the vertical position of the picture.

#### **Color Setup**





#### **Picture Boost**



		Bright Frame	ON/OFF	Enable/Disable Bright Frame	
		Frame Size	14-100	Adjust the Size of the Frame	
		Brightness 0-100		Brightness Adjustment for Enhance Area	
		Contrast 0-100		Contrast Adjustment for Enhance Area	
		H. position	0-100	Adjust the horizontal position of the Frame	
		V. position	0-100	Adjust the vertical position of the Frame	

#### Note:

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

### **OSD Setup**



	Language	English, France, Spanish, Portugues, German, Italian, Dutch, Swedish, Finnish, Polish, Czech, Russia, Korea, TChina, SChina, Japanese.	Select the OSD language.
	Timeout	5-120	Adjust the OSD timeout.
	V. Position	0-100	Adjust the vertical position of the OSD.
	Transparence	0-100	Adjust the OSD.
	H. Position	0-100	Adjust the horizontal position of the OSD.
	Break Reminder	on or off	Break reminder if the user continuously work for more than 1hrs.

#### Extra



	Input Select	24P1U: Auto/D-SUB/HDMI/DP 24P1: Auto/D-SUB/HDMI/DVI/DP X24P1: Auto/D-SUB/HDMI/DVI /DP 24E1Q: Auto/D-SUB/HDMI/DP	Select input signal source.
1	Auto Config.	Yes / No	Auto adjust. the picture to default.
	Off Timer	0-24 hrs	Select DC off time.
	Image Ratio	wide or 4:3	Select wide or 4:3 format for display.
	DDC/CI	Yes / No	Turn on or off DDC/CI Support.
	Reset	Yes / No	Reset the menu to default.

### Exit



# **LED Indicator**

Status	LED Color
Full Power Mode	White
Power Saving	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	<ul> <li>Is the power cord connected properly? Check the power cord connection and power supply.</li> <li>Is the cable connected correctly? (Connected using the D-sub cable) Check the DB-15 cable connection. (Connected using the DVI cable) Check the DVI cable connection. (Connected using the HDMI cable) Check the HDMI cable connection. (Connected using the DP cable) Check the HDMI cable connection. (Connected using the DP cable) Check the DP cable connection.  * DVI/HDMI/DP input is not available on every model.</li> <li>If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen. If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/2000) 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.</li> <li>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.</li> <li>Adjust the maximum resolution and frequency that the monitor can handle properly.</li> <li>Make sure the AOC Monitor Drivers are installed.</li> </ul>		
Picture Is Fuzzy & Has 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	from the monitor as possible.		

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 95/98/2000/ME shut-down mode to adjust CLOCK and PHASE.  Press to auto-adjust.
Regulation & Service	Please refer to Regulation & Service Information which is in the CD manual or <a href="https://www.aoc.com">www.aoc.com</a> (to find the model you purchase in your country and to find Regulation & Service Information in Support page.

# **Specification**

# **General Specification**

	Model name	24P1U			
	Driving system	TFT Color LCD	TFT Color LCD		
	Viewable Image Size	23.8 inch, 60.47cm diagonal			
Panel	Pixel pitch	0.2745(H)mm x 0.2745	5(V)mm		
	Video	R, G, B Analog Interfac	e & HDMI Interface & DP	Interface	
	Separate Sync.	H/V TTL			
	Display Color	16.7M 6bits+Hi FRC			
	Horizontal scan range	30~83KHz			
	Horizontal scan Size(Maximum)	527.04mm			
	Vertical scan range	50Hz ~ 76Hz			
	Vertical scan Size(Maximum)	296.46mm			
	Optimal preset resolution	1920x1080@60Hz			
Others	Plug & Play	VESA DDC2B/CI			
	Input Connector	D-Sub 15 pin/HDMI/DP/USB			
	Power Source	100-240V∼,50/60Hz			
		Typical (Brightness = 90,Contrast = 50)		20W	
	Power Consumption	(Brightness = 100,Contrast = 100)		≤ 55W	
		Power saving		≤0.5W	
	Off timer	0-24 hrs			
Physical Characteristics	Connector Type	D-Sub/ HDMI/DP/Earp charger)	hone out/USB3.1 Gen1x4	(includes 1 fast	
Characteristics	Signal Cable Type	Detachable			
	Tomporoturo	Operating	0° to 40°C		
	Temperature:	Non-Operating	-25° to 55°C		
Environmental	Humidity:	Operating	10% to 85% (non-condensing)		
Liviloriniental	Turnidity.	Non-Operating	5% to 93% (non-condensing)		
	Altitude:	Operating	0~ 5000m(0~ 16404 ft)		
	Ailitude.	Non-Operating	0~ 12192m (0~ 40000	ft )	

	Model name	24P1			
	Driving system	TFT Color LCD			
	Viewable Image Size	23.8 inch, 60.47cm diagonal			
Panel	Pixel pitch	0.2745(H)mm x 0.2745	0.2745(H)mm x 0.2745(V)mm		
i anei	Video	R, G, B Analog Interface & HDMI Interface & DVI Interface & DP Interface			
	Separate Sync.	H/V TTL			
	Display Color	16.7M	16.7M		
	Horizontal scan range	30~83KHz			
	Horizontal scan Size(Maximum)	527.04mm	527.04mm		
	Vertical scan range	50Hz ~ 76Hz			
	Vertical scan Size(Maximum)	296.46mm			
	Optimal preset resolution	1920x1080@60Hz			
	Plug & Play	VESA DDC2B/CI			
Others	Input Connector	D-Sub 15 pin/HDMI / DVI / DP /USB/Audio Input			
	Power Source	100-240V∼,50/60Hz			
		Typical (Brightness = 90,Contrast = 50) 22W		22W	
	Power Consumption	(Brightness = 100,Contrast = 100) ≤55W		≤55W	
		Power saving ≤0.5W		≤0.5W	
	Off timer	0-24 hrs			
	Speakers	2W X2			
Physical	Connector Type  D-Sub/ HDMI/DVI/DP/Audio in/Earphone out/USB3 (includes 1 fast charger)		B3.1 Gen1 x4		
Characteristics	Signal Cable Type	Detachable			
	Tomporatura	Operating	0° to 40°C		
	Temperature:	Non-Operating	-25° to 55°C		
Environmental	Humidity:	Operating	10% to 85% (non-cond	ensing)	
Environmental		Non-Operating	5% to 93% (non-conde	nsing)	
	Altitudos	Operating	0~ 5000m(0~ 16404 ft)		
	Altitude:	Non-Operating	0~ 12192m (0~ 40000	ft )	

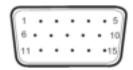
	Model name	X24P1			
	Driving system	TFT Color LCD	TFT Color LCD		
	Viewable Image Size	24 inch, 61.13cm diagonal			
Panel	Pixel pitch	0.270(H)mm x 0.270(V)mm			
T diloi	Video	R, G, B Analog Interface & HDMI Interface & DVI Interface & DP Interface			
	Separate Sync.	H/V TTL			
	Display Color	16.7M			
	Horizontal scan range	30~83KHz			
	Horizontal scan Size(Maximum)	518.4mm			
	Vertical scan range	50Hz ~ 76Hz			
	Vertical scan Size(Maximum)	324.0mm			
	Optimal preset resolution	1920x1200@60Hz			
	Plug & Play	VESA DDC2B/CI			
Others	Input Connector	D-Sub 15 pin/HDMI / DVI / DP /USB/Audio Input			
	Power Source	100-240V∼,50/60Hz			
		Typical (Brightness = 90,Contrast = 50) 22W		22W	
	Power Consumption	(Brightness = 100,Contrast = 100) ≤58W		≤58W	
		Power saving ≤0.		≤0.5W	
	Off timer	0-24 hrs			
	Speakers	2W X2			
Physical	Connector Type	D-Sub/ HDMI/DVI/DP/Audio in/Earphone out/USB3.1 Gen1 x4 (includes 1 fast charger)			
Characteristics	Signal Cable Type	Detachable			
	Townsertown	Operating	0° to 40°C		
	Temperature:	Non-Operating	-25° to 55°C		
Environmental	Humidity:	Operating	10% to 85% (non-condensing)		
Environmental		Non-Operating	5% to 93% (non-conde	ensing)	
	Altitude:	Operating	0~ 5000m(0~ 16404 ft)		
	Ailliude.	Non-Operating	0~ 12192m (0~ 40000	ft)	

	Model name	24E1Q			
	Driving system	TFT Color LCD	TFT Color LCD		
	Viewable Image Size	23.8 inch, 60.47cm diagonal			
Panel	Pixel pitch	0.2745(H)mm x 0.2745(V)mm			
	Video	R, G, B Analog Interface & HDMI Interface & DP Interface			
	Separate Sync.	H/V TTL			
	Display Color	16.7M	16.7M		
	Horizontal scan range	30~83KHz			
	Horizontal scan Size(Maximum)	527.04mm			
	Vertical scan range	50Hz ~ 76Hz			
	Vertical scan Size(Maximum)	296.46mm			
	Optimal preset resolution	1920x1080@60Hz			
	Plug & Play	VESA DDC2B/CI			
Others	Input Connector	D-Sub 15 pin/HDMI / DP /Audio input			
	Power Source	100-240V∼,50/60Hz			
	Power Consumption	Typical (Brightness = 9	Typical (Brightness = 90,Contrast = 50) 20W		
		(Brightness = 100,Contrast = 100) ≤30W		≤30W	
		Power saving ≤0.5W		≤0.5W	
	Off timer	0-24 hrs			
	Speakers	2W X2			
Physical	Connector Type	D-Sub/ HDMI/DP/Audio in/Earphone out			
Characteristics	Signal Cable Type	Detachable			
Environmental	Temperature:	Operating	0° to 40°C		
	remperature.	Non-Operating	-25° to 55°C		
	Humidity:	Operating	10% to 85% (non-condensing)		
Liviloiiiieiilai		Non-Operating	Non-Operating 5% to 93% (non-condensing)		
	Altitude:	Operating	0~ 5000m(0~ 16404 ft)		
		Non-Operating	0~ 12192m (0~ 40000	ft )	

# **Preset Display Modes**

Standard	Resolution	H. Frequency (kHz)	V. Frequency (Hz)
	640x480@60Hz	31.469	59.94
VGA	640x480@72Hz	37.861	72.809
	640x480@75Hz	37.500	75.000
MAC MODES VGA	640x480@67Hz	35.000	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	75.000
MAC MIDE SVGA	835 x 624@75Hz	49.725	74.500
	1024x768@60Hz	48.363	60.004
XGA	1024x768@70Hz	56.476	70.069
	1024x768@75Hz	60.023	75.029
SXGA	1280x1024@60Hz	63.981	60.020
SAGA	1280x1024@75Hz	79.976	75.025
WSXG	1280x720@60HZ	45.000	60.000
WSAG	1280x960@60HZ	60.000	60.000
WXGA+	1440x900@60Hz	55.935	59.876
WSXGA+	1680x1050@60Hz	65.290	59.954
FHD (24E1Q/24P1U/24P1)	1920x1080@60Hz	67.500	60.000
WUXGA (X24P1)	1920x1200@60Hz	74.026	59.950

# **Pin Assignments**

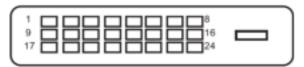


#### 15-Pin Color Display Signal Cable

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		

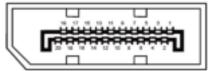


Pin No.	Signal Name	Pin No.	Signal Name
1	TMDS Data 2+	11	TMDS Clock Shield
2	TMDS Data 2 Shield	12	TMDS Clock
3	TMDS Data 2	13	CEC
4	TMDS Data 1+	14	Reserved (N.C. on device
5	TMDS Data 1Shield	15	SCL
6	TMDS Data 1	16	SDA
7	TMDS Data 0+	17	DDC/CEC Ground
8	TMDS Data 0 Shield	18	+5V Power
9	TMDS Data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



#### 24-Pin Color Display Signal Cable

Pin No.	Signal Name	Pin No.	Signal Name
1	TMDS data 2-	13	TMDS data 3+
2	TMDS data 2+	14	+5V Power
3	TMDS data 2/4 Shield	15	Ground (for+5V)
4	TMDS data 4-	16	Hot Plug Detect
5	TMDS data 4+	17	TMDS data 0-
6	DDC Clock	18	TMDS data 0+
7	DDC Data	19	TMDS data 0/5 Shield
8	N.C.	20	TMDS data 5-
9	TMDS data 1 —	21	TMDS data 5+
10	TMDS data 1+	22	TMDS Clock Shield
11	TMDS data 1/3 Shield	23	TMDS Clock +
12	TMDS data 3-	24	TMDS Clock —



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 OP 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.