



LCD Monitor User Manual

**M2470SWD/M2470SWD2/M2470SWD23/M2470SWDA2/M2470SWH
E2470SWD/E2470SWH/E2470SWDA/E2470SWHE
(LED Backlight)**



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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.


 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 ~, Min. 5A

 The wall socket shall be installed near the equipment and shall be easily accessible.

 For use only with the attached power adapter (Output 12Vdc) which have UL, CSA listed license (Only for monitors with power adapter).

Installation

! Do not place the monitor on an unstable cart, stand, tripod, bracket, or table. If the monitor falls, it can injure a person and cause serious damage to this product. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with this product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. A product and cart combination should be moved with care.

! Never push any object into the slot on the monitor cabinet. It could damage circuit parts causing a fire or electric shock. Never spill liquids on the monitor.

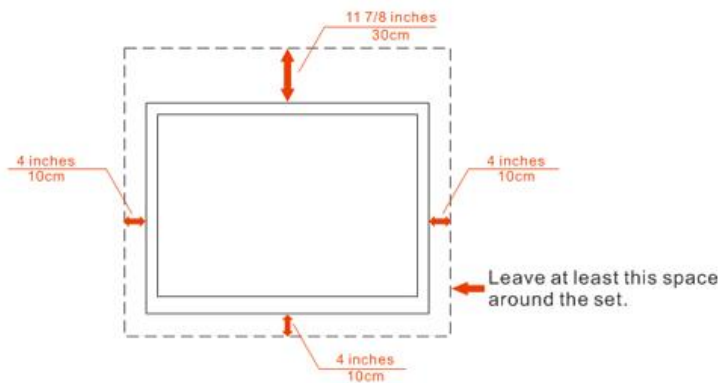
! Do not place the front of the product on the floor.

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

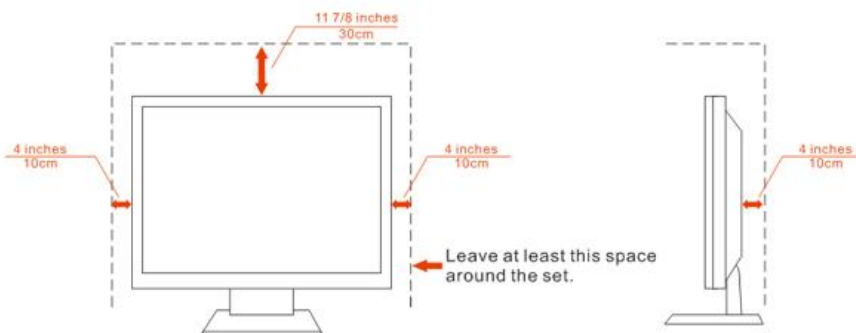
! Leave some space around the monitor as shown below. Otherwise, air-circulation may be inadequate hence overheating may cause a fire or damage to the monitor.

See below the recommended ventilation areas around the monitor when the monitor is installed on the wall or on the stand:

Installed on the wall



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



Monitor



CD Manual



Monitor Base



Stand



Power Cable



DVI Cable



Analog Cable



Audio Cable



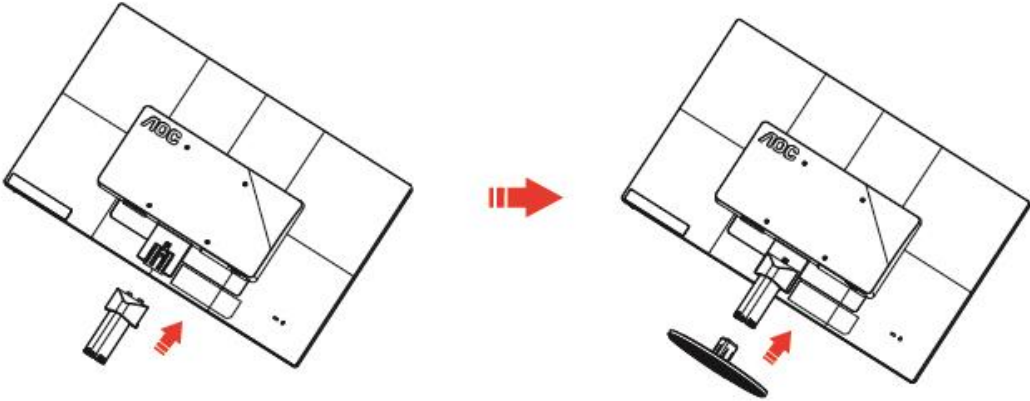
HDMI Cable

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

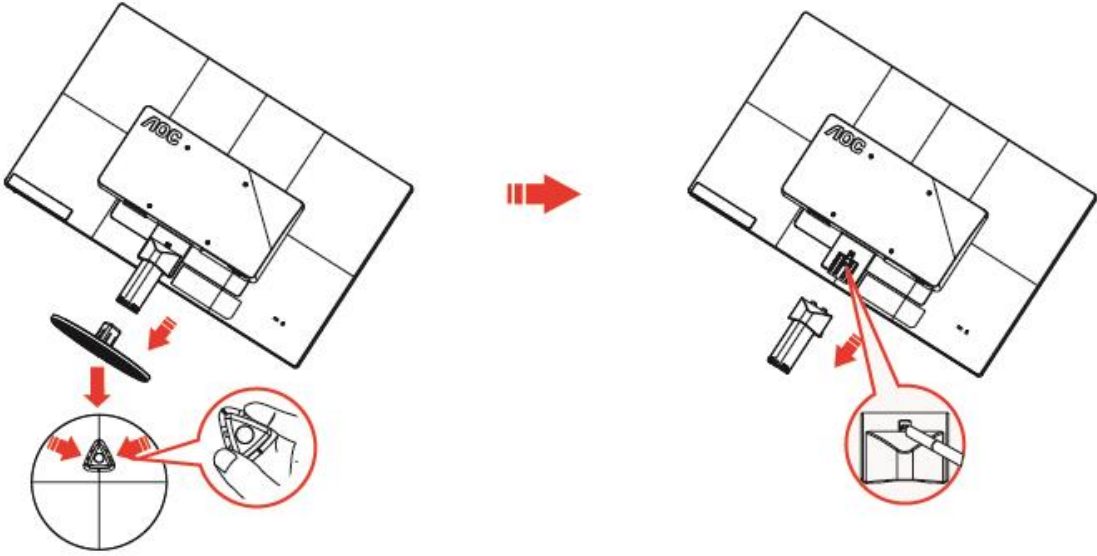
Setup Stand & Base

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

Setup:



Remove:

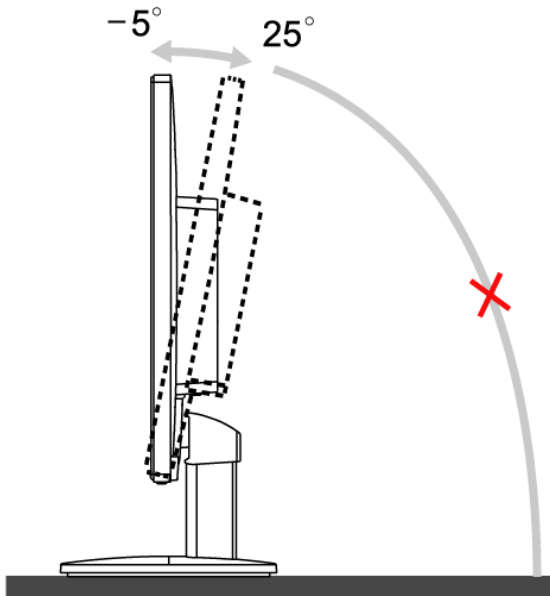


Adjusting Viewing Angle

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's angle from -5° to 25° .



NOTE:

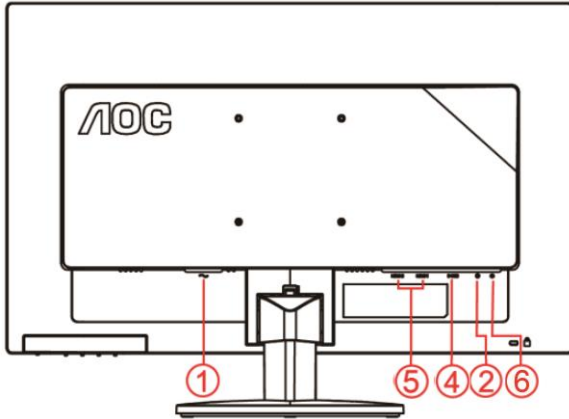
Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.

Do not put your hand close to the gap between the monitor and the base to avoid the injury when adjusting the viewing angle.

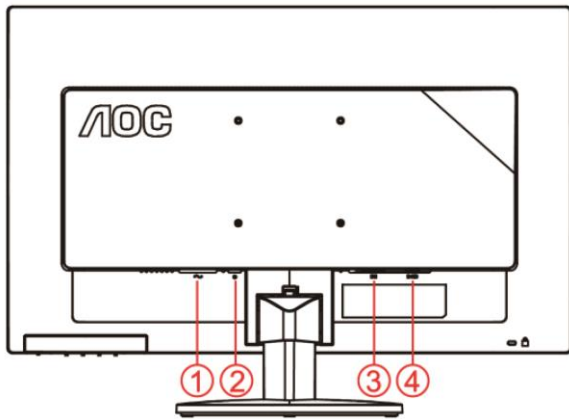
Connecting the Monitor

Cable Connections In Back of Monitor and Computer:

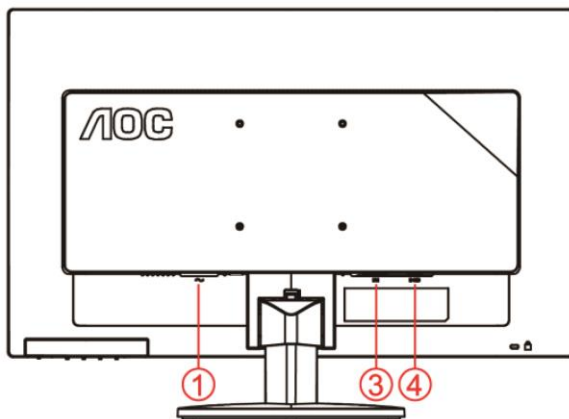
E2470SWHE/M2470SWH



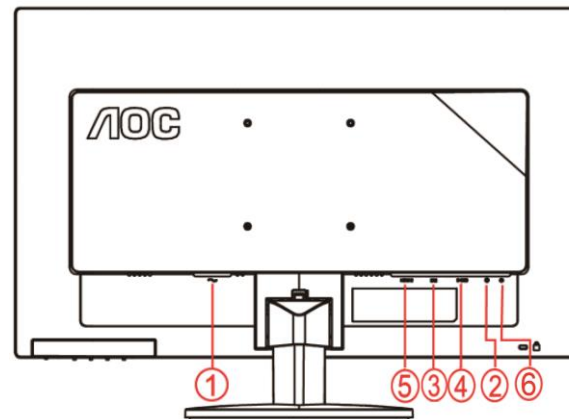
E2470SWDA/M2470SWDA2



M2470SWD/M2470SWD2/M2470SWD23/ E2470SWD



E2470SWH



1. Power
2. Audio in
3. DVI
4. D-Sub
5. HDMI
6. Earphone

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 Connect one end of the DVI cable to the back of the monitor and connect the other end to the computer's DVI port.
- 4 (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.

- 5 (Optional –Requires a video card with Audio port) - Connect one end of the Audio cable to the back of the monitor and connect the other end to the computer's Audio port.
- 6 Turn on your monitor and computer.
- 7 Video content supporting resolution: VGA / DVI / HDMI.

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.



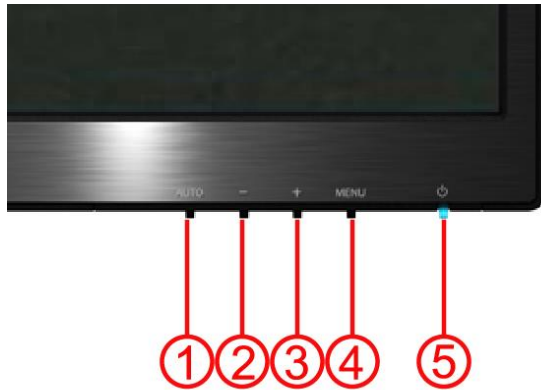
This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this procedure. Follow these steps:

- 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



E2470SWH / E2470SWHE / E2470SWDA / M2470SWDA2 / M2470SWH

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

M2470SWD / M2470SWD2/M2470SWD23 / E2470SWD

1	Source/Auto/Exit
2	Clear vision /-
3	4:3or Wide/+
4	Menu/Enter
5	Power

Power

Press the Power button to turn on/off the monitor.

Menu/Enter

Press to display the OSD or confirm the selection.

Volume adjustment hot key(E2470SWH / E2470SWHE / E2470SWDA / M2470SWDA2 / M2470SWH)

When there is no OSD,press Volume + to active volume adjustment bar,press - or + to adjust volume(Only for the models with Audio)

4:3 or wide image ratio(M2470SWD / M2470SWD2/M2470SWD23 / E2470SWD)

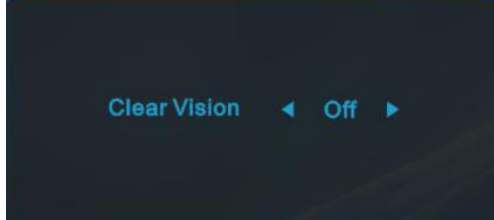
When there is no OSD, press hotkey continuously to change 4:3 or wide image ratio. (If the product screen size is 4:3 or input signal resolution is wide format, the hot key is disable to adjust.).

Source /Auto / Exit

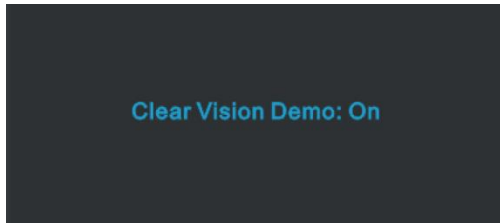
When the OSD is closed, press Auto/Source/Exit button continuously about 2 second to do auto configure (only for the models with dual or more inputs). When the OSD is closed, press Auto/Source/Exit button will be Source hot key function (Only for the models with dual or more inputs).

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.

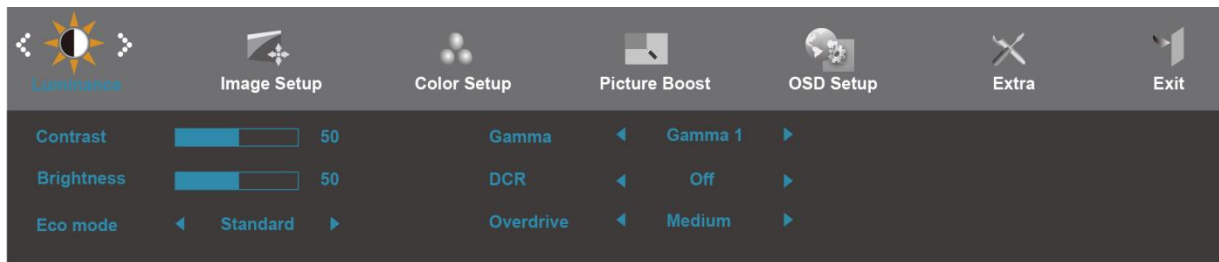



- 1) Press the **MENU-button** to activate the OSD window.
- 2) Press **- or +** to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate it . press **- or +** to navigate through the sub-menu functions. Once the desired function is highlighted, press **MENU-button** to activate it.
- 3) Press **- or +** to change the settings of the selected function. Press **AUTO** 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) If the product screen size is 4:3 or input signal resolution is wide format, the item of "Image Ratio" is disable to adjust.
- 3) One of Clear vision, DCR, Color Boost, and Picture Boost functions is activated; the other three functions are turned off accordingly.

Luminance



1. Press **MENU** (Menu) to display menu.
2. Press - **or** + to select  (Luminance), and press **MENU** to enter.
3. Press - **or** + to select submenu, and press **MENU** to enter.
4. Press - **or** + to adjust.
5. Press **AUTO** to exit.


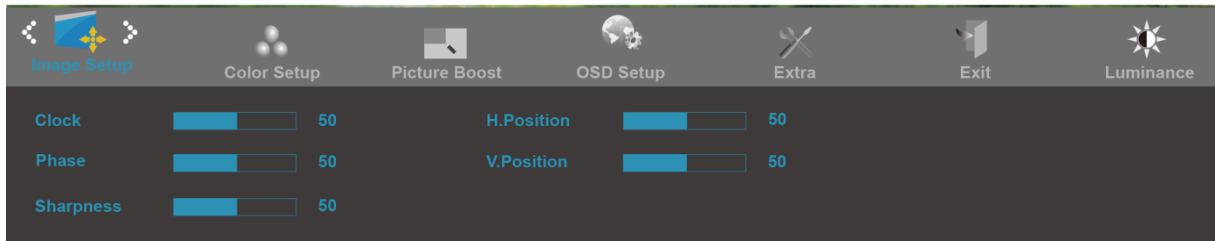

	Brightness	0-100	Backlight Adjustment
	Contrast	0-100	Contrast from Digital-register.
	Eco mode	Standard	Standard Mode
		Text	Text Mode
		Internet	Internet Mode
		Game	Game Mode
		Movie	Movie Mode
		Sports	Sports Mode
	Gamma	Gamma1	Adjust to Gamma1
		Gamma2	Adjust to Gamma 2
		Gamma3	Adjust to Gamma 3
	DCR	Off	Disable dynamic contrast ratio
		On	Enable dynamic contrast ratio
	Overdrive	Weak	Adjust the response time. It could be blur image, if user turns on the OverDrive in Strong Level. User can adjust OverDrive level base on user's preference or turn it off. (for E2470SWH / M2470SWD2/M2470SWD23 / M2470SWDA2 / M2470SWH)
		Medium	
		Strong	
		Off	

Image Setup





1. Press **MENU** (Menu) to display menu.
2. Press - **or** + to select  (Image Setup), and press **MENU** to enter.
3. Press - **or** + to select submenu, and press **MENU** to enter.
4. Press - **or** + to adjust.
5. Press **AUTO** to exit.

	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.
	V.Position	0-100	Adjust the vertical position of the picture.

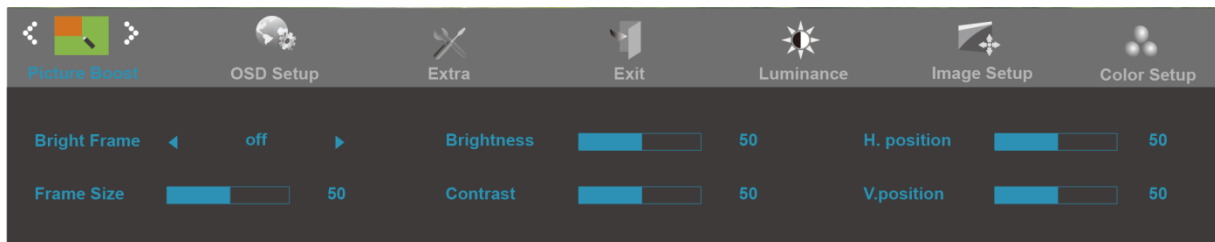
Color Setup





1. Press **MENU** (Menu) to display menu.
2. Press - **or** + to select  (Color Setup), and press **MENU** to enter.
3. Press - **or** + to select submenu, and press **MENU** to enter.
4. Press - **or** + to adjust.
5. Press **AUTO** to exit.

	Color Temp.	Warm		Recall Warm Color Temperature from EEPROM.	
		Normal		Recall Normal Color Temperature from EEPROM.	
		Cool		Recall Cool Color Temperature from EEPROM.	
		sRGB		Recall sRGB Color Temperature from EEPROM.	
		User	Red		Red Gain from Digital-register
			Green		Green Gain Digital-register.
	Blue			Blue Gain from Digital-register	
	DCB Mode	Full Enhance	on or off	Disable or Enable Full Enhance 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	
	DCB Demo		On or off	Disable or Enable Demo	

Picture Boost





1. Press **MENU** (Menu) to display menu.
2. Press - or + to select  (Picture Boost), and press **MENU** to enter.
3. Press - or + to select submenu, and press **MENU** to enter.
4. Press - or + to adjust.
5. Press **AUTO** to exit.

	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V. position	0-100	Adjust Frame vertical Position
	Bright Frame	on or off	Disable or Enable Bright Frame

OSD Setup





1. Press **MENU** (Menu) to display menu.
2. Press - **or** + to select  (OSD Setup), and press **MENU** to enter.
3. Press - **or** + to select submenu, and press **MENU** to enter.
4. Press - **or** + to adjust.
5. Press **AUTO** to exit.

	H.Position	0-100	Adjust the horizontal position of OSD
	V.Position	0-100	Adjust the vertical position of OSD
	Timeout	5-120	Adjust the OSD Timeout
	Transparence	0-100	Adjust the transparence of OSD
	Language		Select the OSD language
	Break Reminder	on or off	Break reminder if the user continuously work for more than 1hrs

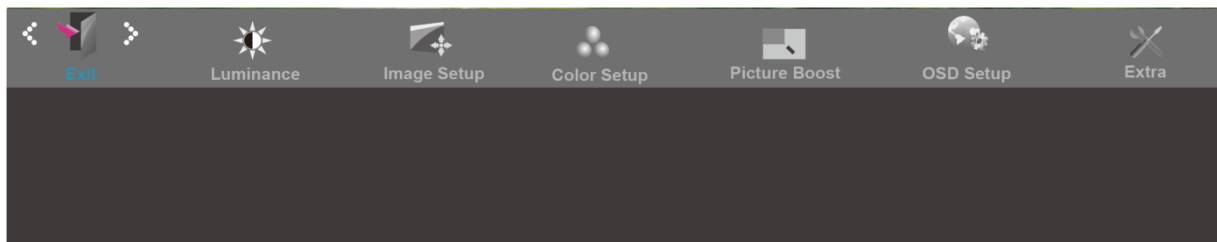
Extra





1. Press **MENU** (Menu) to display menu.
2. Press - **or** + to select  (Extra), and press **MENU** to enter.
3. Press - **or** + to select submenu, and press **MENU** to enter.
4. Press - **or** + to adjust.
5. Press **AUTO** to exit.

	Input Select	Auto / D-SUB /DVI/ HDMI	Select Input Signal Source (E2470SWH)
		Auto / D-SUB /DVI	Select Input Signal Source (M2470SWD / M2470SWD2/M2470SWD23 / E2470SWD / E2470SWDA / M2470SWDA2)
		Auto / D-SUB /HDMI1/ HDMI2	Select Input Signal Source (E2470SWHE / M2470SWH)
	Auto Config	yes or no	Auto adjust the picture to default
	Off timer	0-24hrs	Select DC off time
	Image Ratio	wide or 4:3	Select wide or 4:3 format for display
	DDC-CI	yes or no	Turn ON/OFF DDC-CI Support
	Reset	Yes / ENERGY STAR®	Reset the menu to default. (ENERGY STAR® available for selective models.)
		No	
Information		Show the information of the main image and sub-image source	

Exit



1. Press **MENU** (Menu) to display menu.
2. Press **- or +** to select  (Exit), and press **MENU** to enter.
3. Press **AUTO** to exit.

	Exit		Exit the main OSD
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LED Indicator

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

Driver

i-Menu



Welcome to "i-Menu" software by AOC. i-Menu makes it easy to adjust your monitor display setting by using on screen menus instead of the OSD button on the monitor. To complete installation, please follow the installation guide.



e-Saver

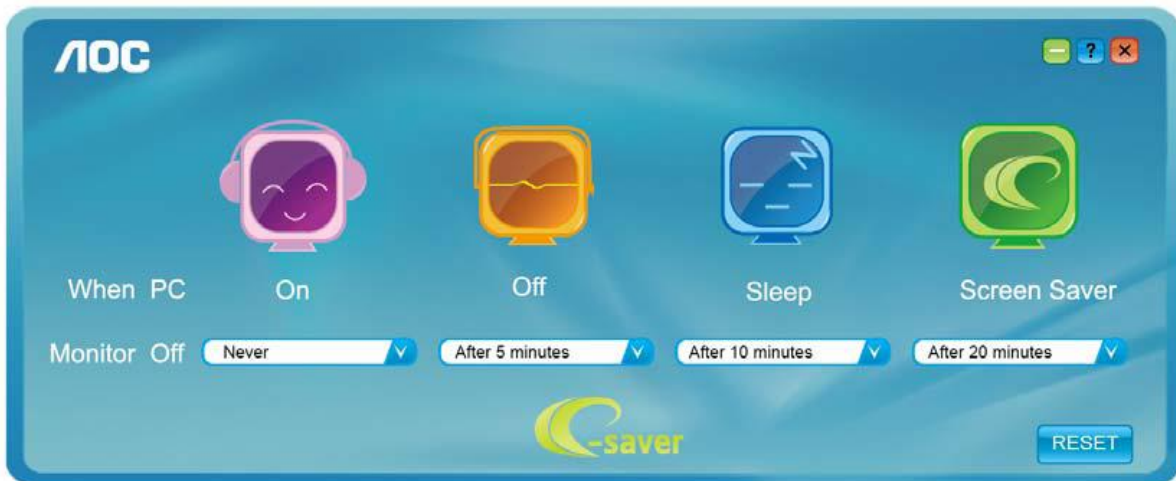


Welcome to use AOC e-Saver monitor power management software! The AOC e-Saver features Smart Shutdown functions for your monitors, allows your monitor to timely shutdown when PC unit is at any status (On, Off, Sleep or Screen Saver); the actual shutdown time depends on your preferences (see example below).

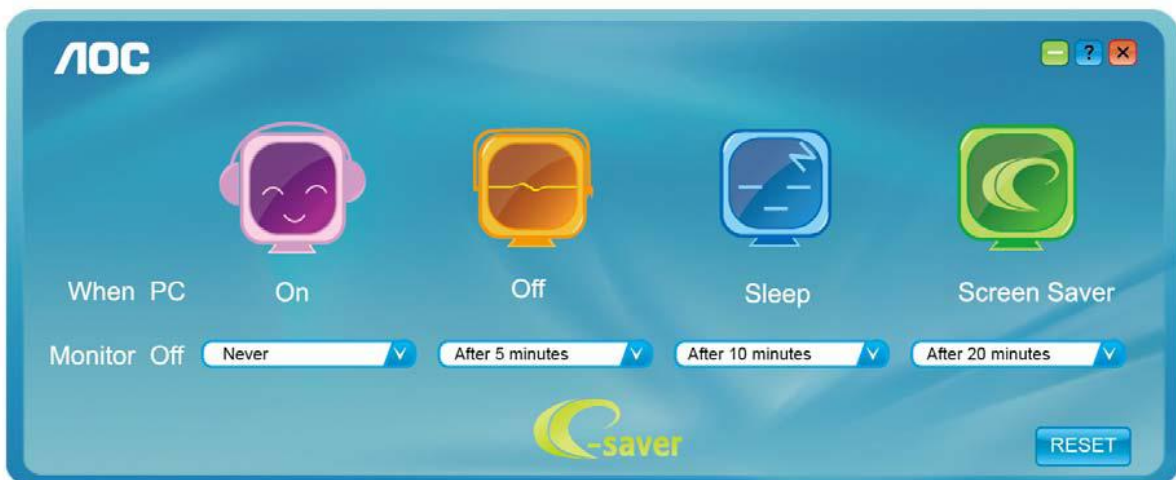
Please click on "driver/e-Saver/setup.exe" to start installing the e-Saver software, follow the install wizard to complete software installation.

Under each of the four PC status, you may choose from the pull-down menu the desired time (in minutes) for your monitor to automatically shutdown. The example above illustrated:

- 1) The monitor will never shutdown when the PC is powered on.
- 2) The monitor will automatically shutdown 5 minutes after the PC is powered off.
- 3) The monitor will automatically shutdown 10 minutes after the PC is in sleep/stand-by mode.
- 4) The monitor will automatically shutdown 20 minutes after the screen saver appears.



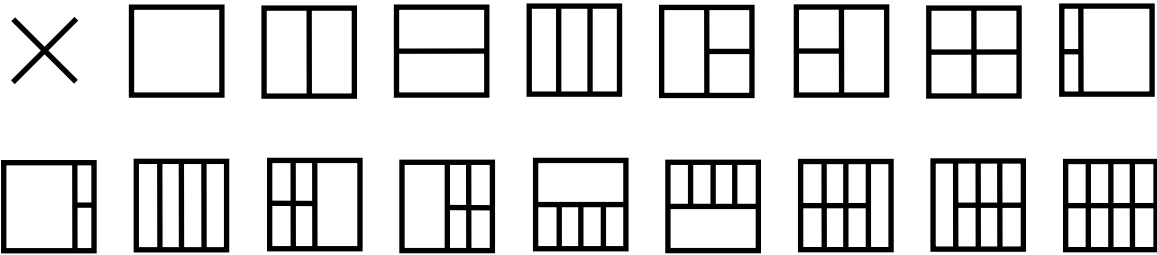
You can click "RESET" to set the e-Saver to its default settings like below.



Screen+



Welcome to "Screen+" software by AOC, Screen+ software is a desktop screen splitting tool, it splits the desktop into different panes, each pane displays a different window. You only need to drag the window to a corresponding pane, when you want to access it. It supports multiple monitor display to make your task easier. Please follow the installation software to install it.



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 style="list-style-type: none"> • Is the power cord connected properly? Check the power cord connection and power supply. • 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. * DVI input is not available on every model. (Connected using the HDMI cable) Check the HDMI cable connection. * 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 ME/XP/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. • 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 your 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 95/98/2000/ME/XP shut-down mode 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.)
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Specification

General Specification E2470SWD

Panel	Model name	E2470SWD	
	Driving system	TFT Color LCD	
	Viewable Image Size	59.8 cm diagonal	
	Pixel pitch	0.2715 mm(H) x 0.2715 mm(V)	
	Video	R, G, B Analog Interface & Digital Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Dot Clock	165 MHz	
Others	Horizontal scan range	30 kHz - 83 kHz	
	Horizontal scan Size(Maximum)	521.28 mm	
	Vertical scan range	50 Hz - 76 Hz	
	Vertical scan Size(Maximum)	293.22 mm	
	Optimal preset resolution	1920 x 1080 (60 Hz)	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	D-SUB / DVI	
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS	
	Power Source	100-240V~, 50/60Hz	
	Typical power consumption	24W (Test condition: set Contrast = 50, Brightness = 90)	
	Power Consumption	28W (Test condition: Set Brightness and Contrast to maximum)	
	Standby mode	≅ 0.5W	
Off timer	0~24 hrs		
Physical Characteristics	Connector Type	D-SUB,DVI	
	Signal Cable Type	Detachable	
Environmental	Temperature	Operating	0° to 40°
		Non-Operating	-25°to 55°
	Humidity	Operating	10% to 85% (non-condensing)
		Non-Operating	5% to 93% (non-condensing)
	Altitude	Operating	0~ 5000m (0~ 16404 ft)
		Non-Operating	0~ 12192m (0~ 40000 ft)

General Specification E2470SWH

Panel	Model name	E2470SWH	
	Driving system	TFT Color LCD	
	Viewable Image Size	59.8 cm diagonal	
	Pixel pitch	0. 2715 mm(H) x 0. 2715 mm(V)	
	Video	R, G, B Analog Interface & Digital Interface & HDMI Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Dot Clock	165 MHz	
Others	Horizontal scan range	30 kHz - 83 kHz	
	Horizontal scan Size(Maximum)	521.28 mm	
	Vertical scan range	50 Hz - 76 Hz	
	Vertical scan Size(Maximum)	293.22 mm	
	Optimal preset resolution	1920 x 1080 (60 Hz)	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	D-SUB / DVI / HDMI	
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS	
	Power Source	100-240V~, 50/60Hz	
	Typical power consumption	28W (Test condition: set Contrast = 50, Brightness = 90)	
	Power Consumption	34W (Test condition: Set Brightness and Contrast to maximum)	
	Standby mode	<0.5W	
	Off timer	0~24 hrs	
Speakers	2W x 2		
Physical Characteristics	Connector Type	D-SUB,DVI, HDMI, Audio in, Earphone out	
	Signal Cable Type	Detachable	
Environmental	Temperature	Operating	0° to 40°
		Non-Operating	-25°to 55°
	Humidity	Operating	10% to 85% (non-condensing)
		Non-Operating	5% to 93% (non-condensing)
	Altitude	Operating	0~ 5000m (0~ 16404 ft)
		Non-Operating	0~ 12192m (0~ 40000 ft)



General Specification E2470SWHE


Panel	Model name	E2470SWHE	
	Driving system	TFT Color LCD	
	Viewable Image Size	59.8 cm diagonal	
	Pixel pitch	0. 2715 mm(H) x 0. 2715 mm(V)	
	Video	R, G, B Analog Interface & HDMI Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Dot Clock	165 MHz	
Others	Horizontal scan range	30 kHz - 83 kHz	
	Horizontal scan Size(Maximum)	521.28 mm	
	Vertical scan range	50 Hz - 76 Hz	
	Vertical scan Size(Maximum)	293.22 mm	
	Optimal preset resolution	1920 x 1080 (60 Hz)	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	D-SUB / HDMI1/HDMI2	
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS	
	Power Source	100-240V~, 50/60Hz	
	Typical power consumption	26W (Test condition: set Contrast = 50, Brightness = 90)	
	Power Consumption	32W (Test condition: Set Brightness and Contrast to maximum)	
	Standby mode	≦0.5W	
Off timer	0~24 hrs		
Physical Characteristics	Connector Type	D-Sub, HDMI1, HDMI2, Audio in, Earphone out	
	Signal Cable Type	Detachable	
Environmental	Temperature	Operating	0° to 40°
		Non-Operating	-25°to 55°
	Humidity	Operating	10% to 85% (non-condensing)
		Non-Operating	5% to 93% (non-condensing)
	Altitude	Operating	0~ 5000m (0~ 16404 ft)
		Non-Operating	0~ 12192m (0~ 40000 ft)


General Specification E2470SWDA


Panel	Model name	E2470SWDA	
	Driving system	TFT Color LCD	
	Viewable Image Size	59.8 cm diagonal	
	Pixel pitch	0. 2715 mm(H) x 0. 2715 mm(V)	
	Video	R, G, B Analog Interface & Digital Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Dot Clock	165 MHz	
Others	Horizontal scan range	30 kHz - 83 kHz	
	Horizontal scan Size(Maximum)	521.28 mm	
	Vertical scan range	50 Hz - 76 Hz	
	Vertical scan Size(Maximum)	293.22 mm	
	Optimal preset resolution	1920 x 1080 (60 Hz)	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	D-SUB / DVI	
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS	
	Power Source	100-240V~, 50/60Hz	
	Typical power consumption	27W (Test condition: set Contrast = 50, Brightness = 90)	
	Power Consumption	33W (Test condition: Set Brightness and Contrast to maximum)	
	Standby mode	≦0.5W	
	Off timer	0~24 hrs	
	Speakers	2W x 2	
Physical Characteristics	Connector Type	D-SUB,DVI, Audio in	
	Signal Cable Type	Detachable	
Environmental	Temperature	Operating	0° to 40°
		Non-Operating	-25°to 55°
	Humidity	Operating	10% to 85% (non-condensing)
		Non-Operating	5% to 93% (non-condensing)
	Altitude	Operating	0~ 5000m (0~ 16404 ft)
		Non-Operating	0~ 12192m (0~ 40000 ft)

General Specification M2470SWD / M2470SWD2/M2470SWD23 / M2470SWDA2

Panel	Model name	M2470SWD / M2470SWD2/M2470SWD23 / M2470SWDA2		
	Driving system	TFT Color LCD		
	Viewable Image Size	59.8 cm diagonal		
	Pixel pitch	0.2715 mm(H) x 0.2715 mm(V)		
	Video	R, G, B Analog Interface & DVI Interface		
	Separate Sync.	H/V TTL		
	Display Color	16.7M Colors		
	Dot Clock	165 MHz		
Others	Horizontal scan range	30 kHz - 83 kHz		
	Horizontal scan Size(Maximum)	521.28 mm		
	Vertical scan range	50 Hz - 76 Hz		
	Vertical scan Size(Maximum)	293.22 mm		
	Optimal preset resolution	1920 x 1080 (60 Hz)		
	Plug & Play	VESA DDC2B/CI		
	Input Connector	D-SUB / DVI		
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS		
	Power Source	100-240V~, 50/60Hz		
	Typical power consumption (Test condition: set Contrast = 50, Brightness = 90)	M2470SWD/M2470SWD2/M2470SWD23	26W	
		M2470SWDA2	27W	
	Power Consumption (Test condition: Set Brightness and Contrast to maximum)	M2470SWD/M2470SWD2/M2470SWD23	32W	
		M2470SWDA2	33W	
Standby mode	M2470SWD/M2470SWD23	≦ 0.5W		
	M2470SWD2	<0.5W		
	M2470SWDA2	<0.3W		
Off timer	0~24 hrs			
Speakers	2W x 2(M2470SWDA2)			
Physical Characteristics	Connector Type	M2470SWD/M2470SWD2/M2470SWD23	D-Sub, DVI	
		M2470SWDA2	D-Sub, DVI, Audio in	
Signal Cable Type	Detachable			
Environmental	Temperature	Operating	0° to 40°	
		Non-Operating	-25° to 55°	
	Humidity	Operating	10% to 85% (non-condensing)	
		Non-Operating	5% to 93% (non-condensing)	
	Altitude	Operating	0~ 5000m (0~ 16404 ft)	
Non-Operating		0~ 12192m (0~ 40000 ft)		

M2470SWD2: 

M2470SWDA2: 

M2470SWD23: 

General Specification M2470SWH

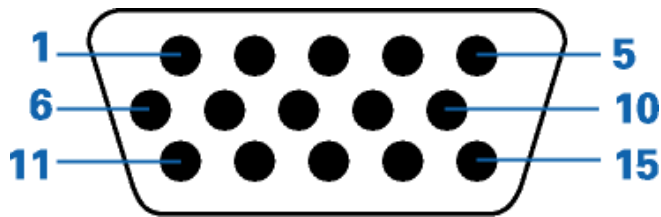
Panel	Model name	M2470SWH	
	Driving system	TFT Color LCD	
	Viewable Image Size	59.8 cm diagonal	
	Pixel pitch	0. 2715 mm(H) x 0. 2715 mm(V)	
	Video	R, G, B Analog Interface & HDMI Interface	
	Separate Sync.	H/V TTL	
	Display Color	16.7M Colors	
	Dot Clock	165 MHz	
Others	Horizontal scan range	30 kHz - 83 kHz	
	Horizontal scan Size(Maximum)	521.28 mm	
	Vertical scan range	50 Hz - 76 Hz	
	Vertical scan Size(Maximum)	293.22 mm	
	Optimal preset resolution	1920 x 1080 (60 Hz)	
	Plug & Play	VESA DDC2B/CI	
	Input Connector	D-SUB / HDMI1/HDMI2	
	Input Video Signal	Analog: 0.7Vp-p(standard), 75 OHM, TMDS	
	Power Source	100-240V~, 50/60Hz	
	Typical power consumption	28W (Test condition: set Contrast = 50, Brightness = 90)	
	Power Consumption	34W (Test condition: Set Brightness and Contrast to maximum)	
	Standby mode	<0.3W	
	Off timer	0~24 hrs	
Speakers	2W x 2		
Physical Characteristics	Connector Type	D-Sub, HDMI1, HDMI2, Audio in, Earphone out	
	Signal Cable Type	Detachable	
Environmental	Temperature	Operating	0° to 40°
		Non-Operating	-25°to 55°
	Humidity	Operating	10% to 85% (non-condensing)
		Non-Operating	5% to 93% (non-condensing)
	Altitude	Operating	0~ 5000m (0~ 16404 ft)
		Non-Operating	0~ 12192m (0~ 40000 ft)



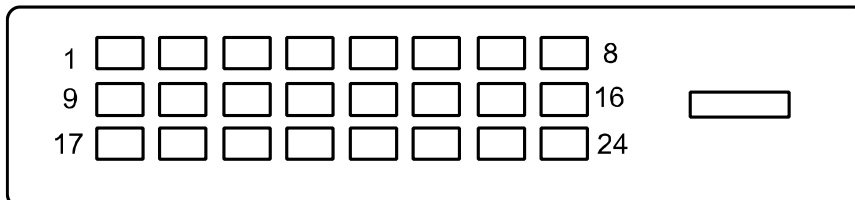
Preset Display Modes

STAND	RESOLUTION	HORIZONTAL FREQUENCY(kHZ)	VERTICAL FREQUENCY(Hz)
VGA	640x480 @60Hz	31.469	59.94
	640x480 @72Hz	37.861	72.809
	640x480 @75Hz	37.5	75
MAC MODE VGA	640 x 480@67Hz	35	66.667
IBM-MODE DOS	720x400@70Hz	31.469	70.087
SVGA	800x600 @56Hz	35.156	56.25
	800x600 @60Hz	37.879	60.317
	800x600 @72Hz	48.077	72.188
	800x600 @75Hz	46.875	75
MAC MODE SVGA	832x624@75Hz	49.725	74.5
XGA	1024x768 @60Hz	48.363	60.004
	1024x768 @70Hz	56.476	70.069
	1024x768 @75Hz	60.023	75.029
SXGA	1280x1024@60Hz	63.981	60.02
	1280x1024@75Hz	79.976	75.025
WXGA	1280x720@60Hz	45	60
	1280x960@60Hz	60	60
WXGA+	1440x900 @60Hz	55.935	59.887
WSXGA+	1680x1050 @60Hz	65.29	59.954
FHD	1920 x 1080@60Hz	67.5	60

Pin Assignments



Pin Number	15-Pin Side of the Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	N.C.
5	Detect Cable
6	GND-R
7	GND-G
8	GND-B
9	+5V
10	Ground
11	N.C.
12	DDC-Serial data
13	H-sync
14	V-sync
15	DDC-Serial clock



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



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.