



# LCD Monitor User Manual

## 24B2XH/27B2H

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.


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## 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 ~, Min. 1.5A

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

 For use only with the attached power adapter  
Manufacturers: TPV ELECTRONICS (FUJIAN) CO.,LTD.  
Model: ADPC1925EX (19VDC,1.31A)

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## Installation

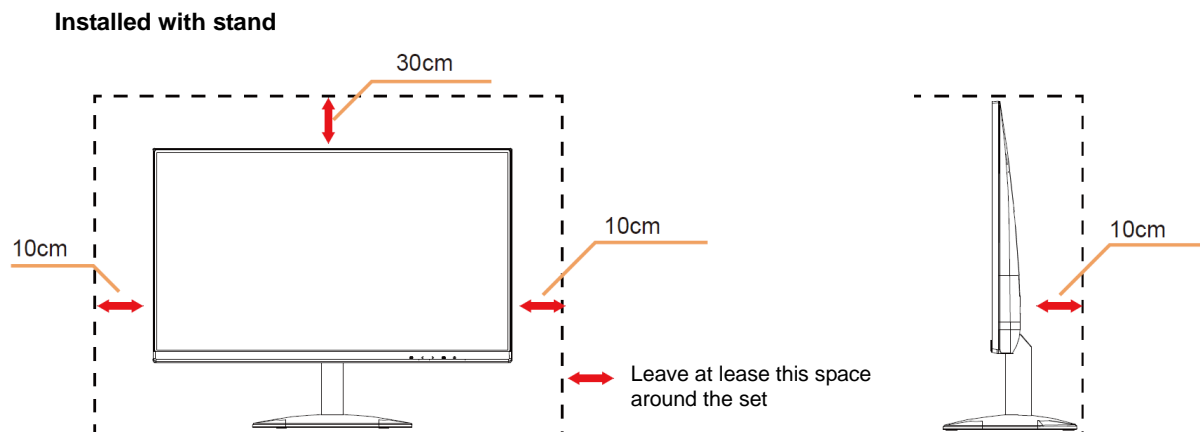
**!** Do not place the monitor on an unstable cart, stand, tripod, bracket, or table. If the monitor falls, it can injure a person and cause serious damage to this product. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with this product. Follow the manufacturer's 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:




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## 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.





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## 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.

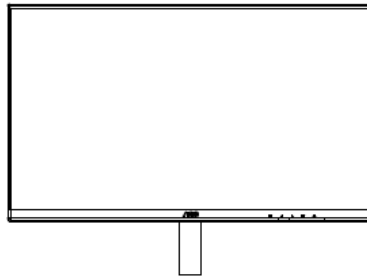
 Do not knock or drop the monitor during operation or transportation.

 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.

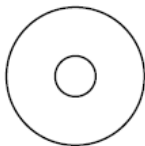
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# Setup

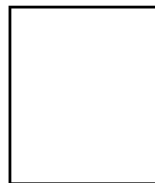
## Contents in Box



Monitor



CD Manual



Warranty card



Base



AUDIO



VGA



HDMI



Adapter

\* Not all signal cables (VGA, AUDIO, HDMI cables), CD manual will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.



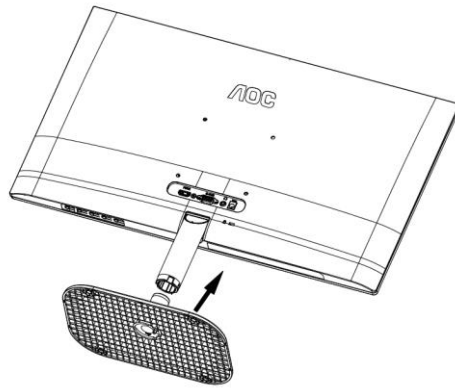
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## Setup Base

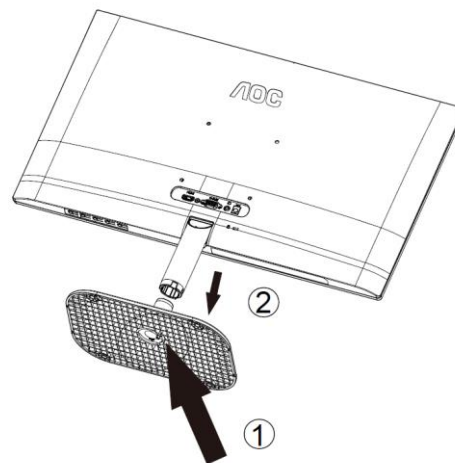
Please setup or remove the base following the steps as below.

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

Setup:



Remove:

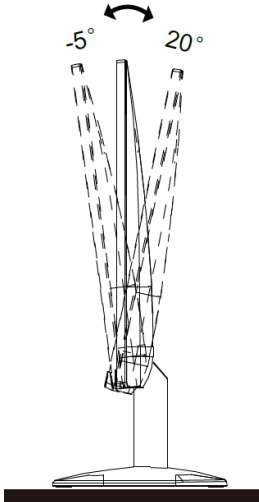


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## Adjusting Viewing Angle

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.



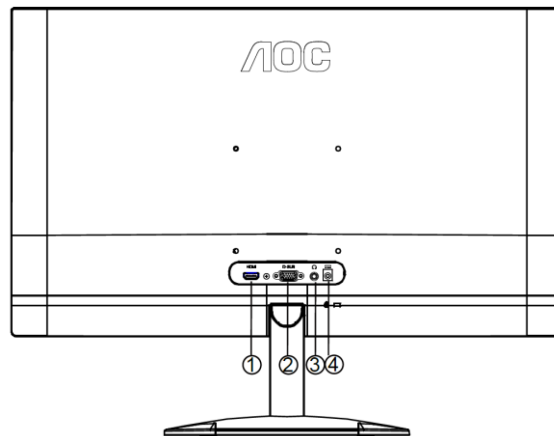
NOTE:

Do not adjust the viewing angle over 20 degrees in order to avoid damage.

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## Connecting the Monitor

Cable Connections In Back of Monitor and Computer:



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

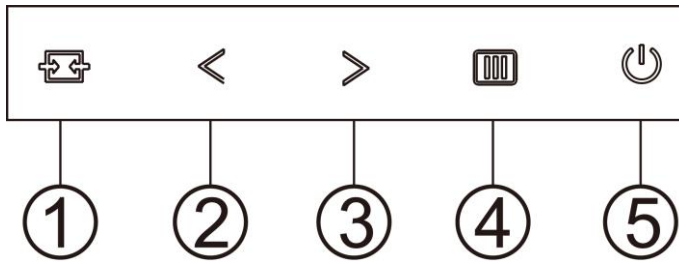
To protect equipment, always turn off the PC and LCD monitor before connecting.

- 1 Connect the power cable to the DC 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 Turn on your monitor and computer.

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

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## Hotkeys



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

### Menu/Enter

Press to display the OSD or confirm the selection.

### Power

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

### Image Ratio/Volume/ >

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

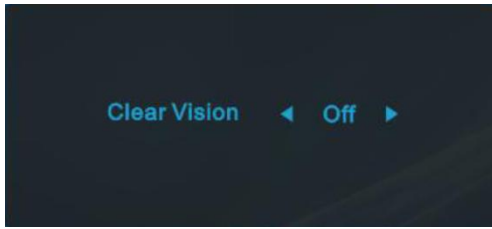
### Auto / Exit / Source hot key

When there is no OSD, Press Auto/Source button continuously about 2 second to do auto configure. When the OSD is closed, press Source button will be Source hot key function. Press Source button continuously to select the input source showed in the message bar, press Menu/Enter button to change to the source selected.

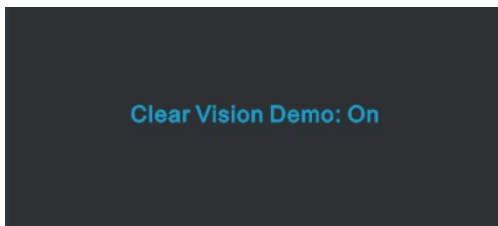
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### Clear Vision

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.

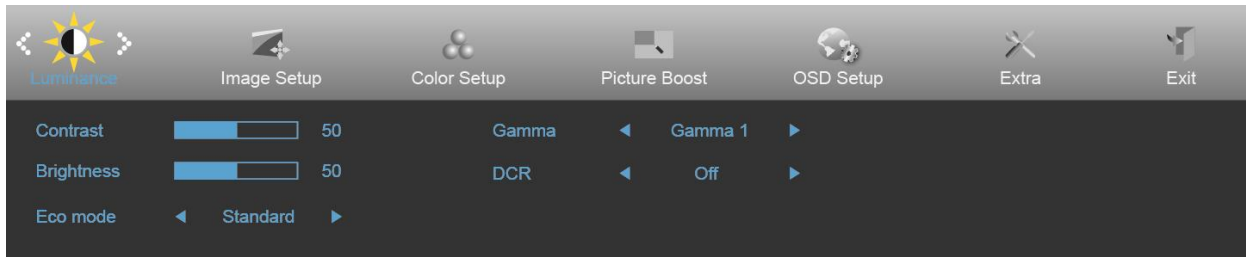








Clear Vision function provides the best image viewing experience by converting low resolution and blurry images into clear and vivid images.

Clear Vision	Off	Adjust the Clear Vision
	Weak	
	Medium	
	Strong	
Clear Vision Demo	on or off	Disable or Enable Demo

# OSD Setting

Basic and simple instruction on the control keys.

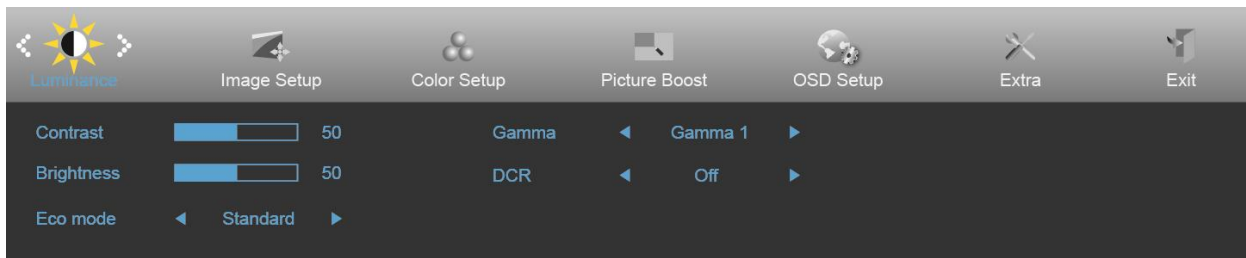


1. Press the  **MENU-button** to activate the OSD window.
2. Press **<** or **>** to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate it. If there is a sub-menu, press **<** or **>** to navigate through the sub-menu functions.
3. Press **<** 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 disabled.
2. If the product screen size is 4:3 or input signal resolution is native resolution, the item of "Image Ratio" is disabled.
3. One of 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.

4 Press < or > to adjust.

5 Press **AUTO** to exit.

	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment
	Eco mode	Standard	<input checked="" type="checkbox"/>	Standard Mode
		Text		Text Mode
		Internet		Internet Mode
		Game		Game Mode
		Movie		Movie Mode
		Sports		Sports Mode
		Reading		Reading Mode
	Gamma	Gamma1	Adjust to Gamma 1	
		Gamma2	Adjust to Gamma 2	
		Gamma3	Adjust to Gamma 3	
	DCR	Off	Disable dynamic contrast ratio	
On			Enable dynamic contrast ratio	

## 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.

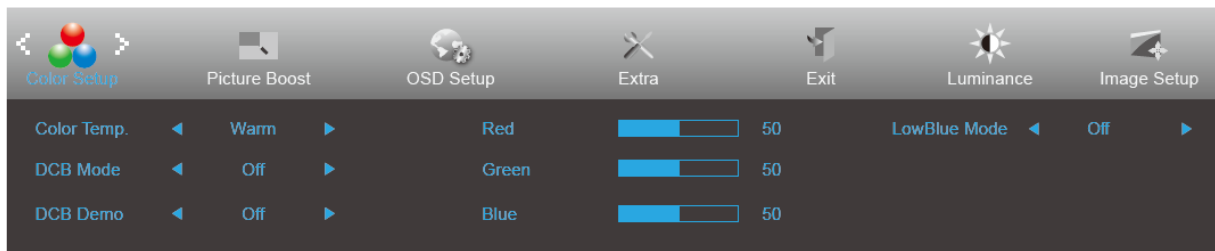
4 Press **<** or **>** to adjust.

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.

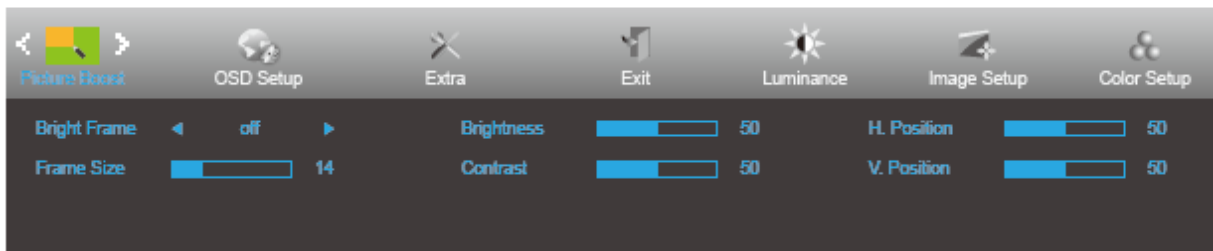
3 Press < or > to select submenu.

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		Recall User Color Temperature from EEPROM
	DCB Mode	Full Enhance	ON/OFF	Disable or Enable Full Enhance Mode.
		Nature Skin	ON/OFF	Disable or Enable Nature Skin Mode.
		Green Field	ON/OFF	Disable or Enable Green Field Mode.
		Sky-blue	ON/OFF	Disable or Enable Sky-blue Mode.
		AutoDetect	ON/OFF	Disable or Enable AutoDetect Mode.
	DCB Demo		ON/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.
	LowBlue Mode	Multimedia		Decrease blue light wave by controlling color temperature
Internet				
Office				
Reading				
Off				

## 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.

4 Press **<** or **>** to adjust.

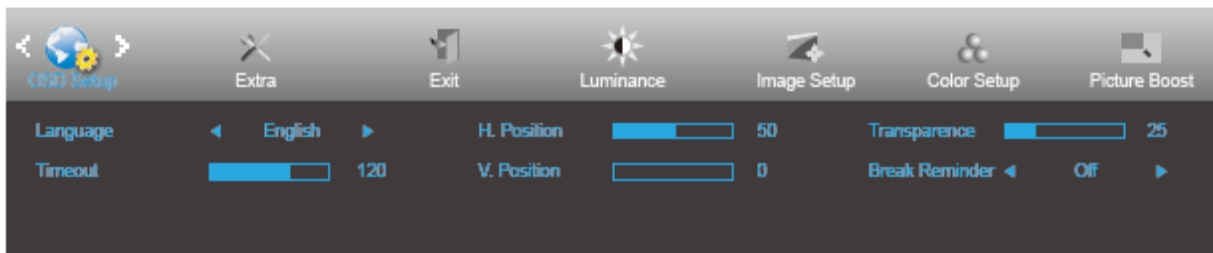
5 Press **AUTO** to exit.

	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




1 Press **MENU** (Menu) to display menu.

2 Press < or > to select  (OSD Setup), and press **MENU** to enter.

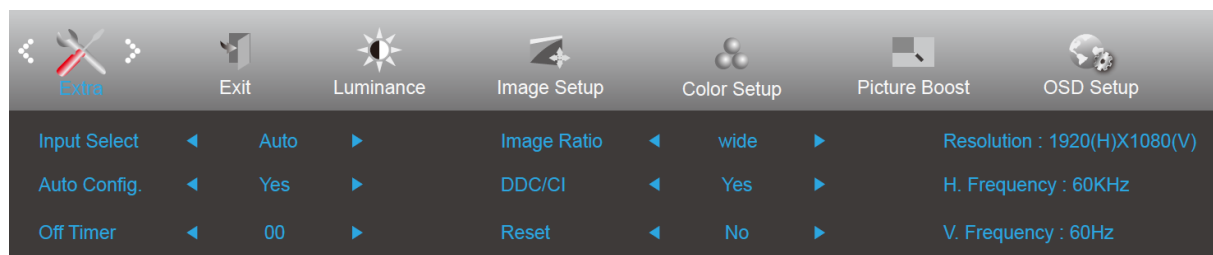
3 Press < or > to select submenu.

4 Press < or > to adjust.

5 Press **AUTO** to exit.

	Language		Select the OSD language.
	Timeout	5-120	Adjust the OSD timeout.
	V. Position	0-100	Adjust the vertical position of the OSD.
	H. Position	0-100	Adjust the horizontal position of the OSD.
	Transparence	0-100	Adjust the OSD.
	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.

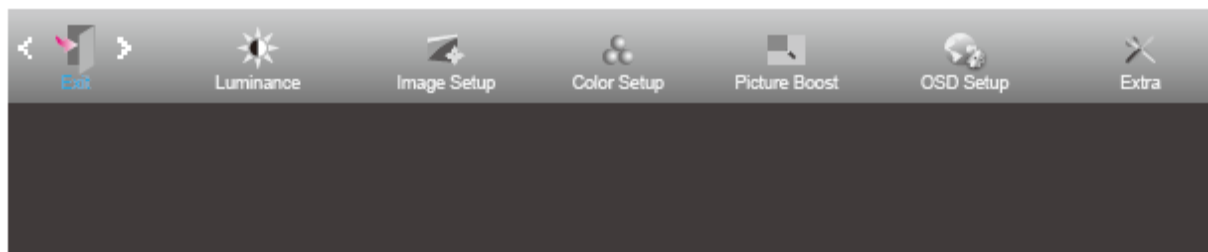
3 Press < or > to select submenu.

4 Press < or > to adjust.

5 Press **AUTO** to exit.

	Input Select	Auto	Auto Detect input signal
		D-SUB	Select D-SUB signal source as input
		HDMI	Select HDMI signal Source as input
	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



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

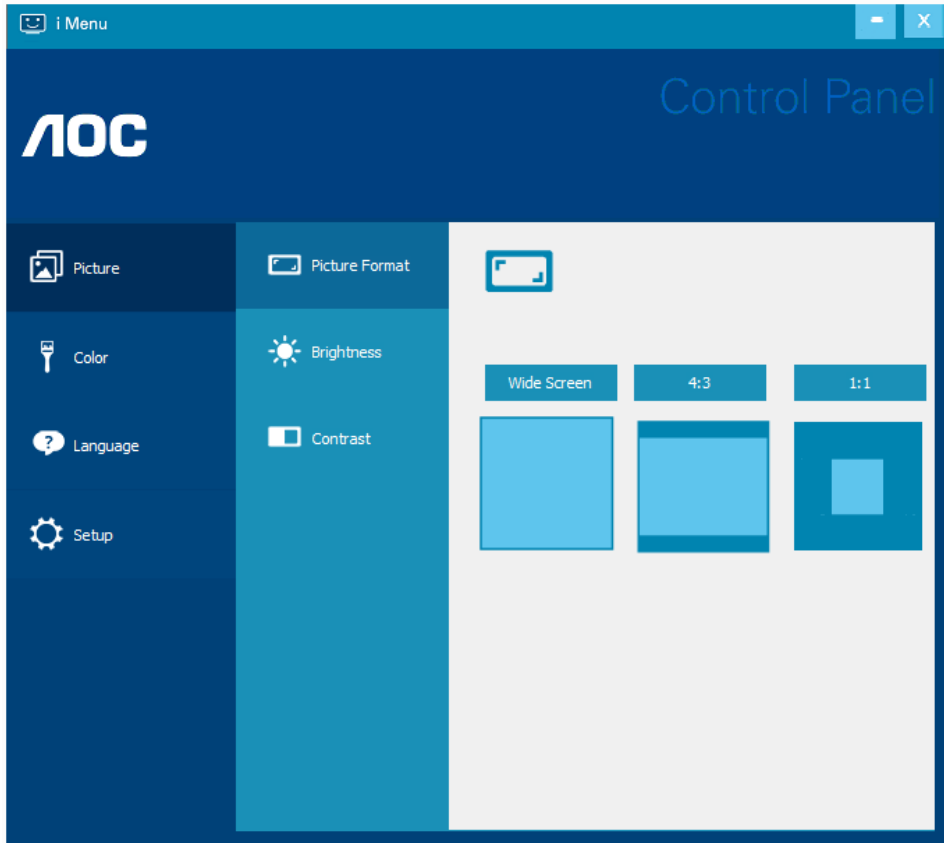
Status	LED Color
Full Power Mode	White
Power Saving	Orange

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# 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

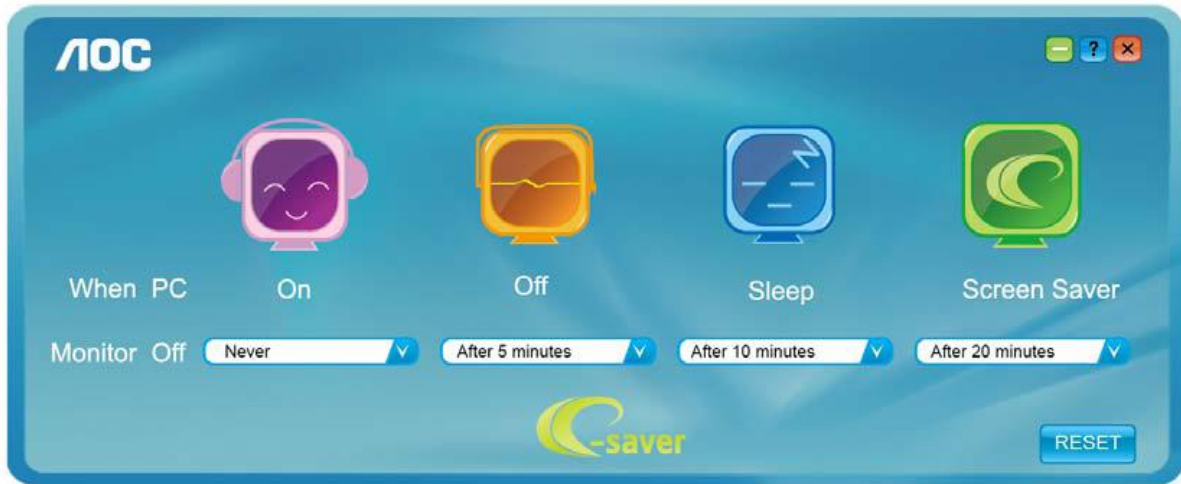


Welcome to use AOC e-Saver monitor power management software! The AOC e-Saver features Smart Shutdown functions for your monitors, allows your monitor to timely shutdown when PC unit is at any status (On, Off, Sleep or Screen Saver); the actual shutdown time depends on your preferences (see example below).

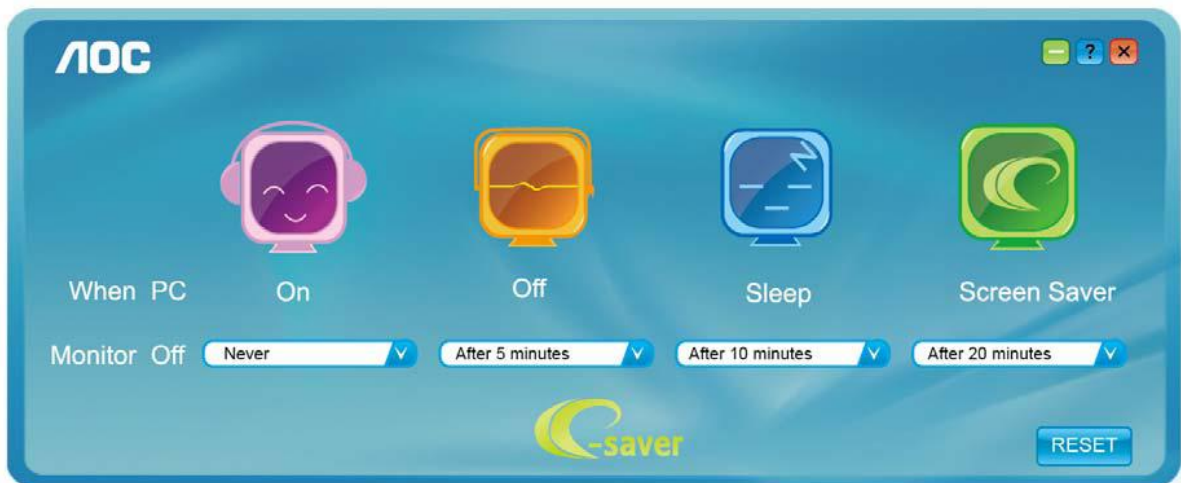
Please click on "driver/e-Saver/setup.exe" to start installing the e-Saver software, follow the install wizard to complete software installation.

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



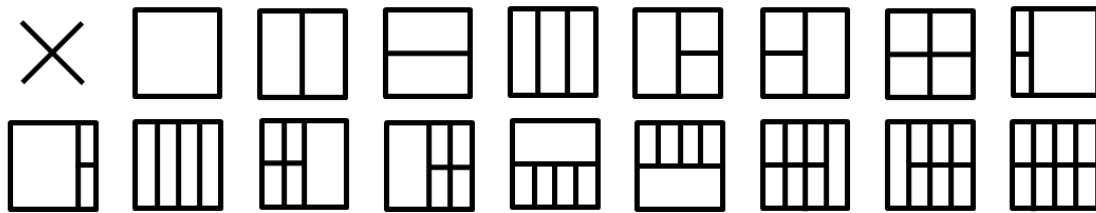


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# Screen+



Welcome to "Screen+" software by AOC. Screen+ software is a desktop screen splitting tool; it splits the desktop into different panels, and each panel displays a different window. You only need to drag the window to a corresponding panel 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
<b>Power LED Is Not ON</b>	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.
<b>No images on the screen</b>	<ul style="list-style-type: none"> <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. * DVI 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. Adjust the maximum resolution and frequency that the monitor can handle properly.</li> <li>● Make sure the AOC Monitor Drivers are installed.</li> </ul>
<b>Picture Is Fuzzy &amp; Has Ghosting Shadowing Problem</b>	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.
<b>Picture Bounces, Flickers Or Wave Pattern Appears In The Picture</b>	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.

<p><b>Monitor Is Stuck In Active Off-Mode"</b></p>	<p>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.</p>
<p><b>Missing one of the primary colors (RED, GREEN, or BLUE)</b></p>	<p>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.</p>
<p><b>Screen image is not centered or sized properly</b></p>	<p>Adjust H-Position and V-Position or press hot-key (AUTO).</p>
<p><b>Picture has color defects (white does not look white)</b></p>	<p>Adjust RGB color or select desired color temperature.</p>
<p><b>Horizontal or vertical disturbances on the screen</b></p>	<p>Use Windows 95/98/2000/ME shut-down mode to adjust CLOCK and PHASE.  Press to auto-adjust.</p>

# Specification

## General Specification

### 24B2XH

Panel	Model name	24B2XH		
	Driving system	TFT Color LCD		
	Viewable Image Size	23.8 inch 60.47cm diagonal		
	Pixel pitch	0.2745(H)mm x 0.2745(V)mm		
	Video	R, G, B Analog Interface & HDMI Interface		
	Separate Sync.	H/V TTL		
	Display Color	16.7M Colors		
Others	Horizontal scan range	30~85KHz		
	Horizontal scan Size(Maximum)	527.04mm		
	Vertical scan range	48Hz ~ 75Hz		
	Vertical scan Size(Maximum)	296.46mm		
	Optimal preset resolution	1920x1080@60Hz		
	Maximum resolution	1920x1080@60Hz(D-SUB) 1920x1080@75Hz(HDMI)		
	Plug & Play	VESA DDC2B/CI		
	Input Connector	D-Sub 15 pin/HDMI		
	Power Source	19Vdc, 1.31A		
	Power Consumption	Typical (Brightness = 90, Contrast = 50)	19W	
(Brightness = 100, Contrast = 100)		≤23W		
Power saving		≤0.3W		
Physical Characteristics	Connector Type	D-Sub/ HDMI/ Earphone out		
	Signal Cable Type	Detachable		
Environmental	Temperature:	Operating	0° to 40°C	
		Non-Operating	-25° to 55°C	
	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 )	

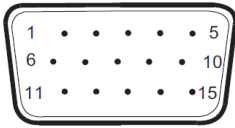
## 27B2H

Panel	Model name	27B2H		
	Driving system	TFT Color LCD		
	Viewable Image Size	27 inch 68.6cm diagonal		
	Pixel pitch	0.3114(H)mm x 0.3114(V)mm		
	Video	R, G, B Analog Interface & HDMI Interface		
	Separate Sync.	H/V TTL		
	Display Color	16.7M Colors		
Others	Horizontal scan range	30~85KHz		
	Horizontal scan Size(Maximum)	597.888mm		
	Vertical scan range	48Hz ~ 75Hz		
	Vertical scan Size(Maximum)	336.312mm		
	Optimal preset resolution	1920x1080@60Hz		
	Maximum resolution	1920x1080@60Hz(D-SUB) 1920x1080@75Hz(HDMI)		
	Plug & Play	VESA DDC2B/CI		
	Input Connector	D-Sub 15 pin/HDMI		
	Power Source	19Vdc, 1.31A		
	Power Consumption	Typical (Brightness = 90, Contrast = 50)	22W	
(Brightness = 100, Contrast = 100)		≤28W		
Power saving		≤0.3W		
Physical Characteristics	Connector Type	D-Sub/ HDMI/ Earphone out		
	Signal Cable Type	Detachable		
Environmental	Temperature:	Operating	0° to 40°C	
		Non-Operating	-25° to 55°C	
	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

Standard	Resolution	H. Frequency (kHz)	V. Frequency (Hz)
VGA	640x480@60Hz	31.469	59.94
	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
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 MIDE SVGA	835 x 624@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
WSXG	1280x720@60HZ	45	60
	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	1920x1080@75Hz	83.9	75

## 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	Ground
4	Ground	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
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 +		

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# 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.



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