AOC

LCD Monitor User Manual

CU32V3 LED backlight

HDMI®

www.aoc.com

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.

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

Installed with stand
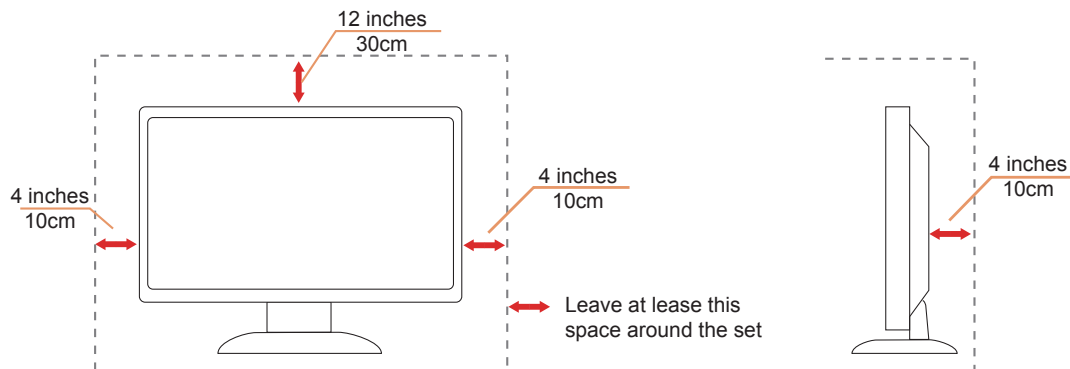
Please purchase a suitable wall mount to avoid the lack of distance between the back signal cable and the wall.

Cleaning

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

⚠ When cleaning, make sure no detergent is leaked into the product. The cleaning cloth should not be too rough as it will scratch the screen surface.

⚠ Please disconnect the power cord before cleaning the product.

Other

⚠ If the product is emitting a strange smell, sound or smoke, disconnect the power plug IMMEDIATELY and contact a Service Center.

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

⚠ 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
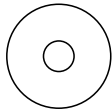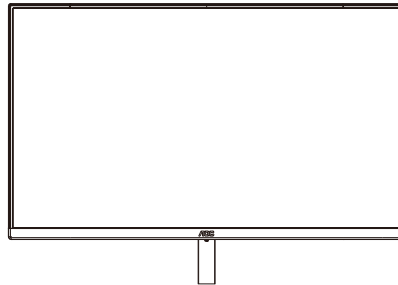
| CD Manual | Warranty card | Base | Power Cable | HDMI Cable | DP Cable |
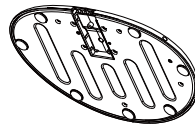
✻Not all signal cables (DP, HDMI cables) will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation.

Setup Stand & Base

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

Setup:
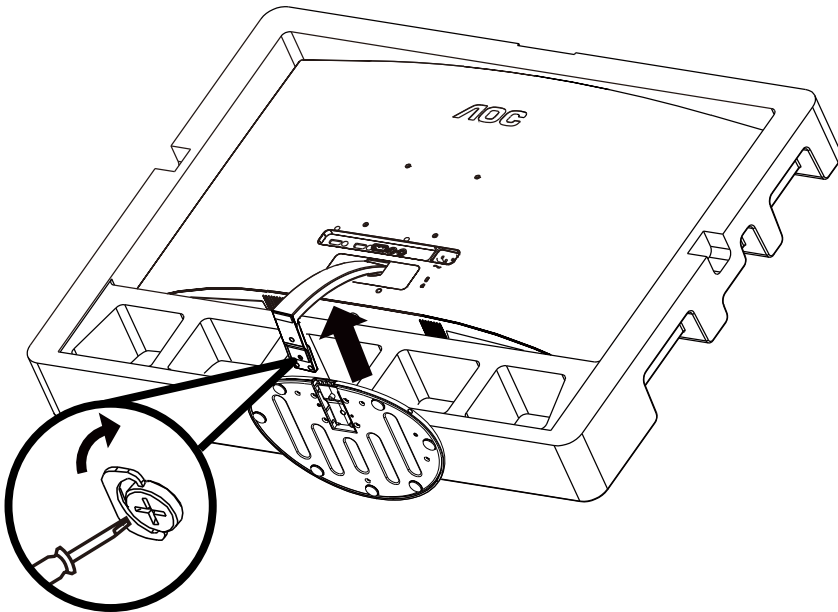
Remove:
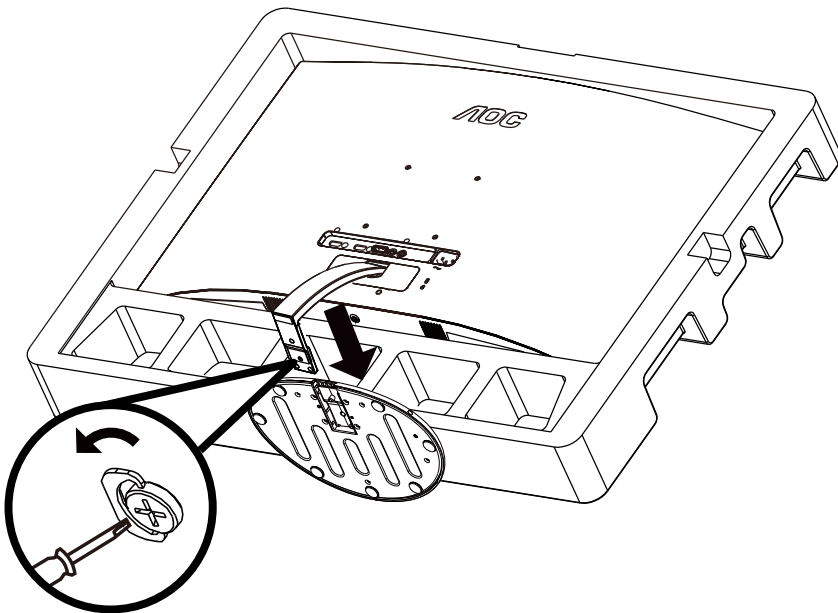
Adjusting Viewing Angle

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 as below:
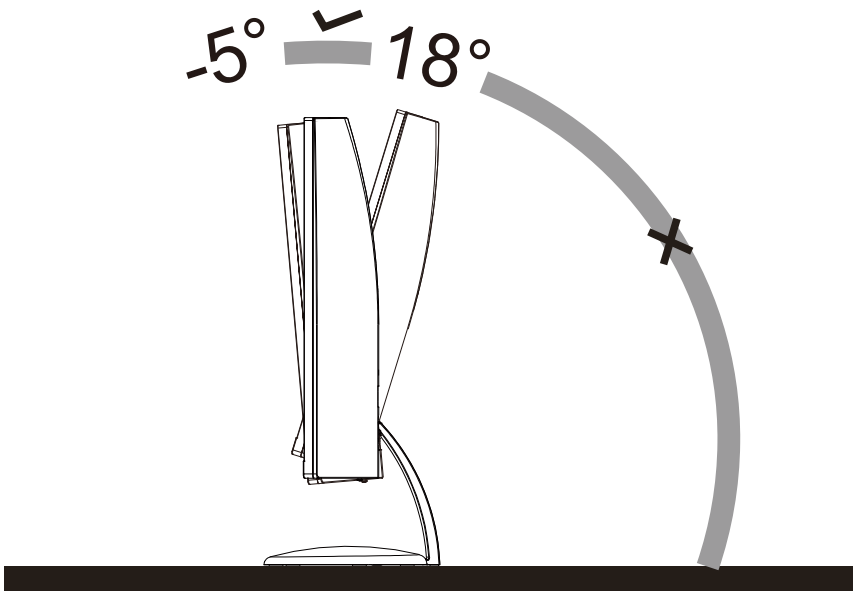
📝 **NOTE:**

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:
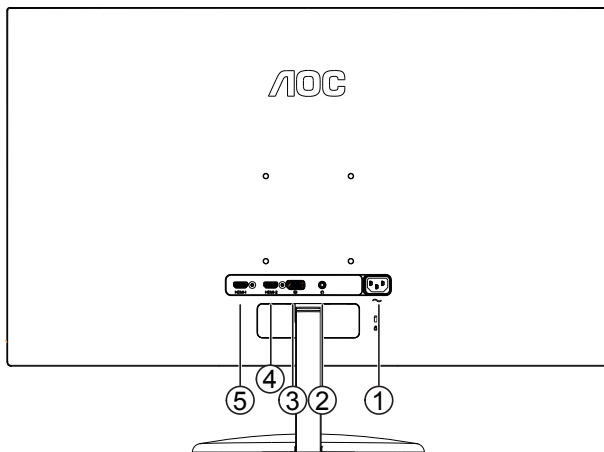
1. Power
2. Earphone
3. DisplayPort
4. HDMI-2
5. HDMI-1

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.

Adjusting

Hotkeys
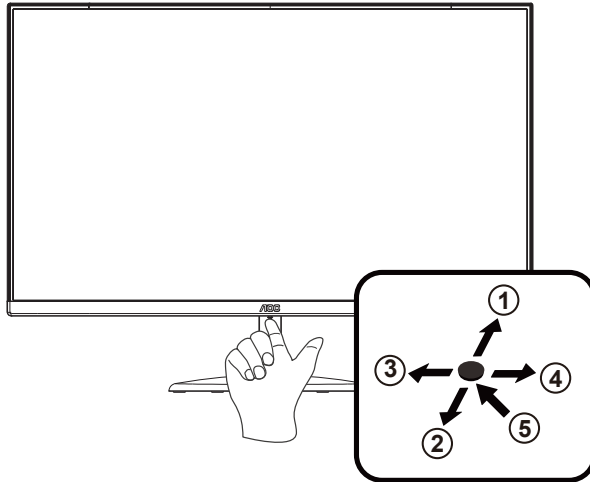
1	Source/Exit/Up
2	Eco/DCR/Uniformity/Down
3	Clear Vision/Left
4	Volume/Right
5	Power/ Menu/Enter

Power/Menu/Enter

Press the Power button to turn on the monitor.

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

Volume/Right

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

Source/Exit

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

Eco /DCR/Uniformity/Down

When there is no OSD, Press this button to enter Eco/DCR/Uniformity adjustment. Then press Left or Right button to choose different Eco/DCR/Uniformity.

Clear Vision

1. When there is no OSD, Press the "Left" button to activate Clear Vision.
2. Use the "Left" or "Right" buttons to select between weak, medium, strong, or off settings. Default setting is always "off".
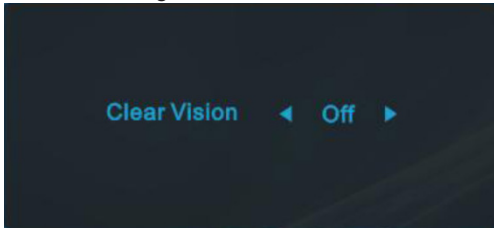
3. Press and hold "Left" button for 5 seconds to activate the Clear Vision Demo, and a message of "Clear Vision Demo: on" will be display on the screen for a duration of 5 seconds. Press and hold "Left" button for 5 seconds again, Clear Vision Demo will be off.
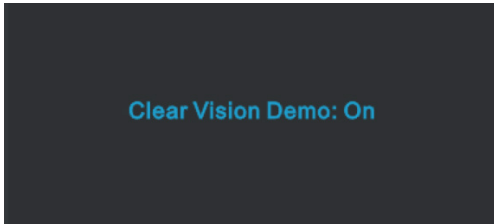
Clear Vision function provides the best image viewing experience by converting low resolution and blurry images into clear and vivid images.

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

OSD Setting

Basic and simple instruction on the control keys.

Luminance	Color Setup	Picture Boost	OSD Setup	Extra	Exit

Contrast	50	Gamma ◄ Gamma 1 ►
Brightness	90	DCR ◄ Off ►
Eco mode ◄ Standard ►		Overdrive ◄ Off ►
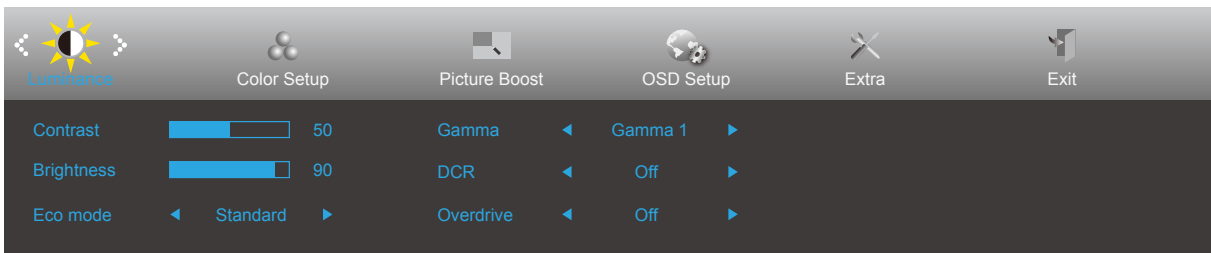
1). Press the **MENU-button** to activate the OSD window.

2). Press **Left** or **Right** to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate it, press **Left** or **Right** to navigate through the sub-menu functions. Once the desired function is highlighted, press **MENU-button** to activate it.

3). Press **Left** or **Right** to change the settings of the selected function. Press **Exit–button** to exit. If you want to adjust any other function, repeat steps 2-3.

4). OSD Lock/Unlock Function: To lock or unlock the OSD, press and hold the **Down–button** for 10s while OSD function is not active.

Notes:

1). If the product has only one signal input, the item of "Input Select" is disable to adjust.

2). ECO modes (except Standard mode), Clear vision, DCR, DCB mode and Picture Boost, for these states that only one state can exist.

Luminance

Luminance	Contrast	▬▬▬ 50	Gamma ◄ Gamma 1 ►
	Brightness	▬▬▬ 90	DCR ◄ Off ►
	Eco mode	◄ Standard ►	Overdrive ◄ Off ►
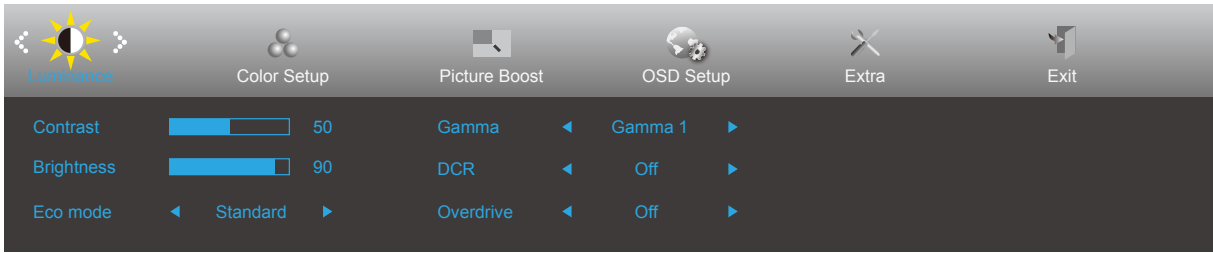
	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment
	Eco mode	Standard	✓	Standard Mode
		Text	T	Text Mode
		Internet	e	Internet Mode
		Game	🎮	Game Mode
		Movie	💿	Movie Mode
		Sports	🏃	Sports Mode
		Reading		Reading Mode
		Uniformity		Uniformity Mode
	Gamma	Gamma1		Adjust to Gamma 1
		Gamma2		Adjust to Gamma 2
		Gamma3		Adjust to Gamma 3
	DCR	Off		Disable dynamic contrast ratio
		On	DCR	Enable dynamic contrast ratio
	Overdrive	Weak		Adjust the response time.
		Medium		
		Strong		
		Off		
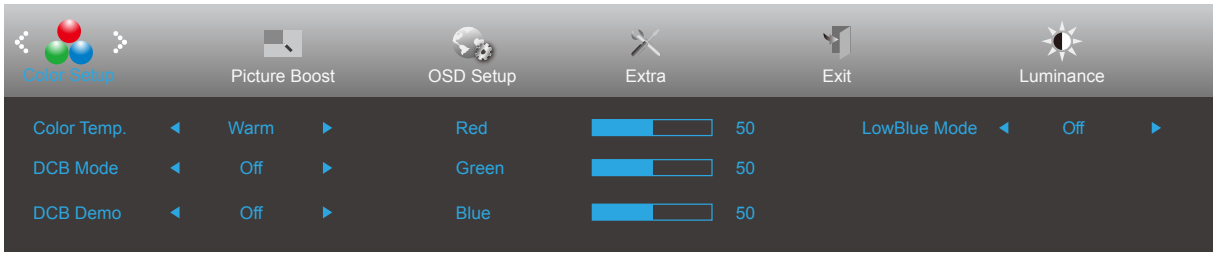
Color Setup

		Warm		Recall Warm Color Temperature from EEPROM.
	Color Temp.	Normal		Recall Normal Color Temperature from EEPROM.
		Cool		Recall Cool Color Temperature from EEPROM.
		sRGB		Recall SRGB Color Temperature from EEPROM.
		User		Restore User Color Temperature from EEPROM.
	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
	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

Picture Boost	OSD Setup	Extra	Exit	Luminance	Color Setup

| Bright Frame | ◄ off ► | Brightness | ▮▮▮▮▮ 50 | H. Position | ▭ 0 |
| Frame Size | ▮▭ 14 | Contrast | ▮▮▮▮ 50 | V. Position | ▭ 0 |
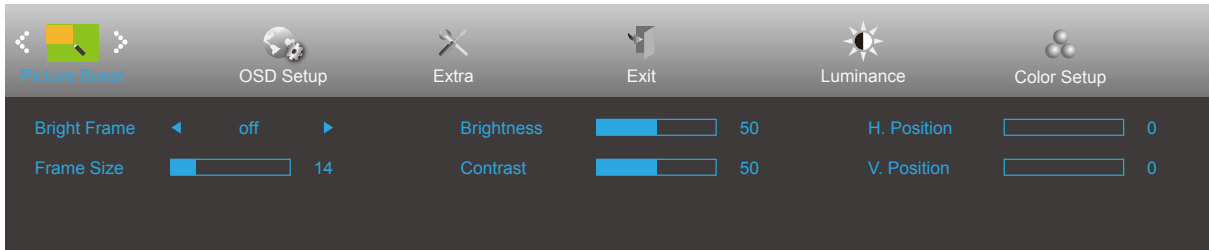
	Bright Frame	on or off	Disable or Enable Bright Frame
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V. position	0-100	Adjust Frame vertical Position

Note:

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

OSD Setup
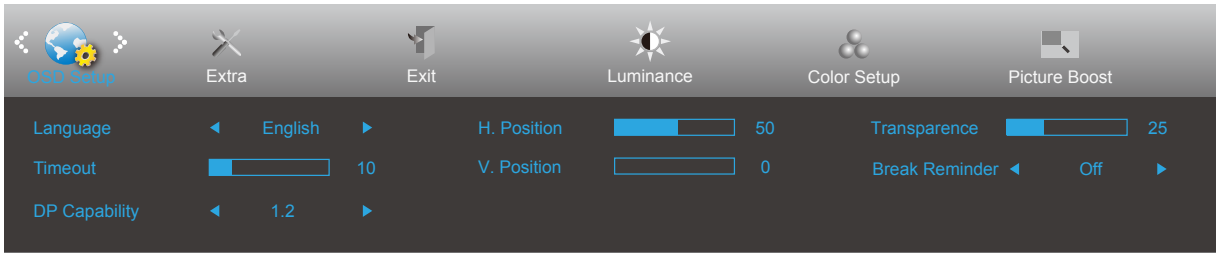
	Language		Select the OSD language
	Timeout	5-120	Adjust the OSD Timeout
	DP Capability	1.1/1.2	If the DP video content supports DP1.2, please select DP1.2 for DP Capability; otherwise, please select DP1.1.
	H. Position	0-100	Adjust the horizontal position of OSD
	V. Position	0-100	Adjust the vertical position of OSD
	Transparence	0-100	Adjust the transparence of OSD
	Break Reminder	on or off	Break reminder if the user continuously work for more than 1hrs

Extra

	Extra	Exit	Luminance	Color Setup	Picture Boost	OSD Setup
Input Select	◄ Auto ►	Image Ratio	◄ Wide ►	Resolution : 1920(H)X1080(V)		
Auto Config.	◄ No ►	DDC/CI	◄ Yes ►	H. Frequency : 67KHz		
Off Timer	◄ 00 ►	Reset	◄ No ►	V. Frequency : 60Hz		
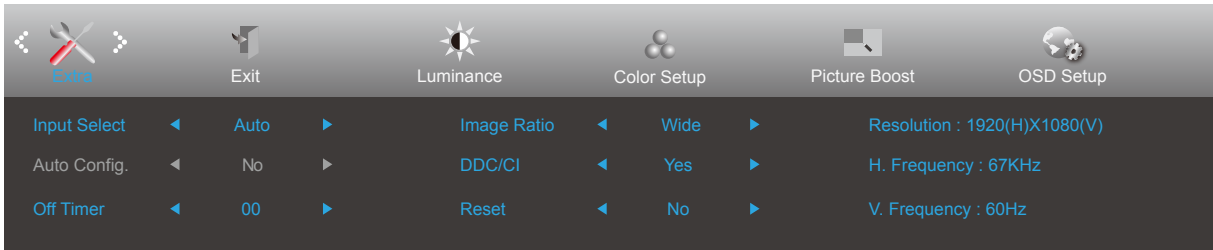
	Input Select		Select Input Signal Source
	Auto Config.	Yes or No	Auto adjust the picture to default. (Only for the models with D-Sub)
	Off timer	0-24hrs	Select DC off time
	Image Ratio	Wide/4:3/1:1/Movie1/Movie2	Select image ratio for display.
	DDC/CI	Yes or No	Turn ON/OFF DDC/CI Support
	Reset	Yes or No	Reset the menu to default

Exit
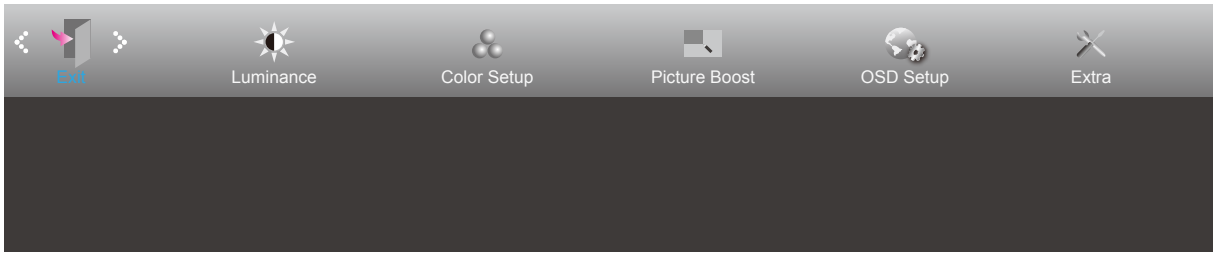
	Exit		Exit the main OSD

LED Indicator

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

Driver

i-Menu (Screen+)

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. The software Supported operating systems: Windows 10, Windows 8, Windows 7.
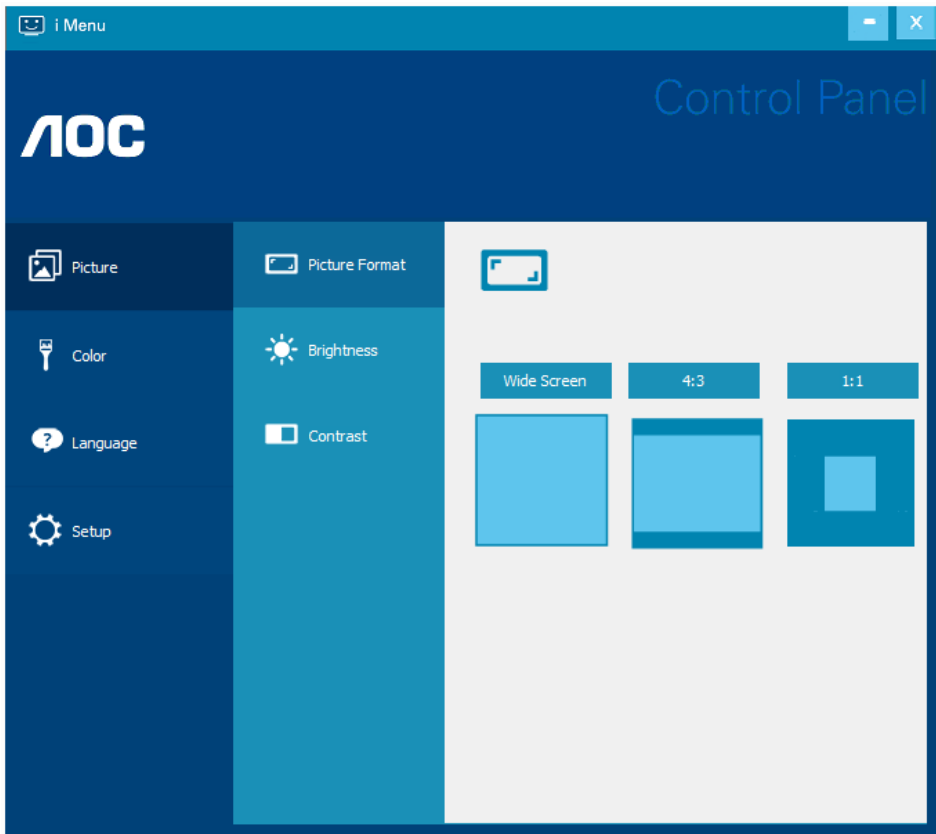
Screen+ can be turned on via i-Menu. It is a desktop screen splitting tool, it splits the desktop into different panels, and each panel displays a different window. You only need to drag the window to a corresponding panel when you want to access it. It supports multiple monitor display to make your task easier.
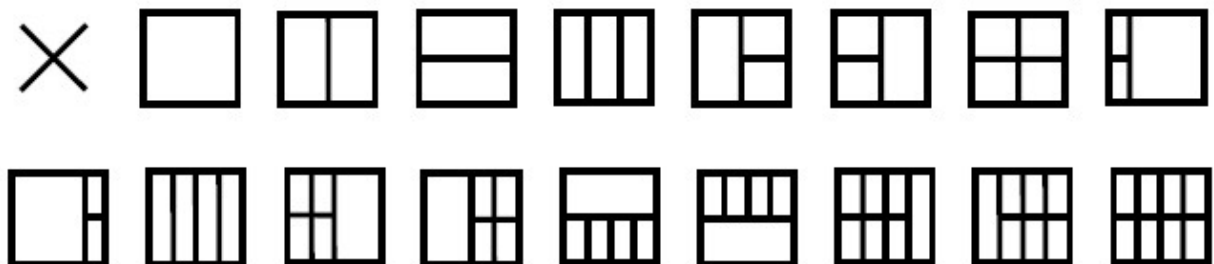
e-Saver

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) you're your monitor to automatically shut down. The example above illustrated:
The monitor will never shutdown when the PC is powered on.
The monitor will automatically shutdown 5 minutes after the PC is powered off.
The monitor will automatically shutdown 10 minutes after the PC is in sleep/stand-by mode.
The monitor will automatically shutdown 20 minutes after the screen saver appears.
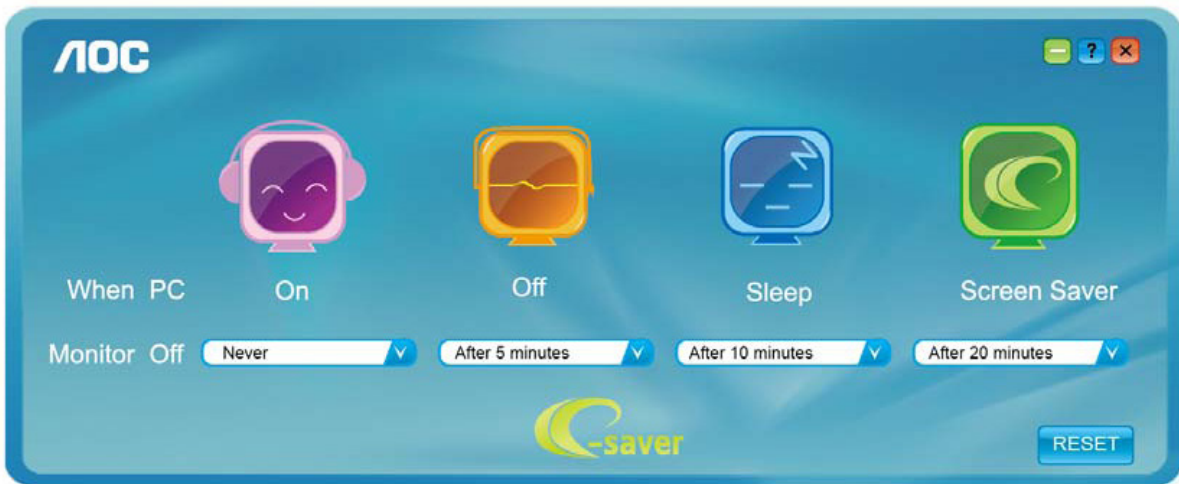
You can click "RESET" to set the e-Saver to its default settings like below.

Troubleshoot

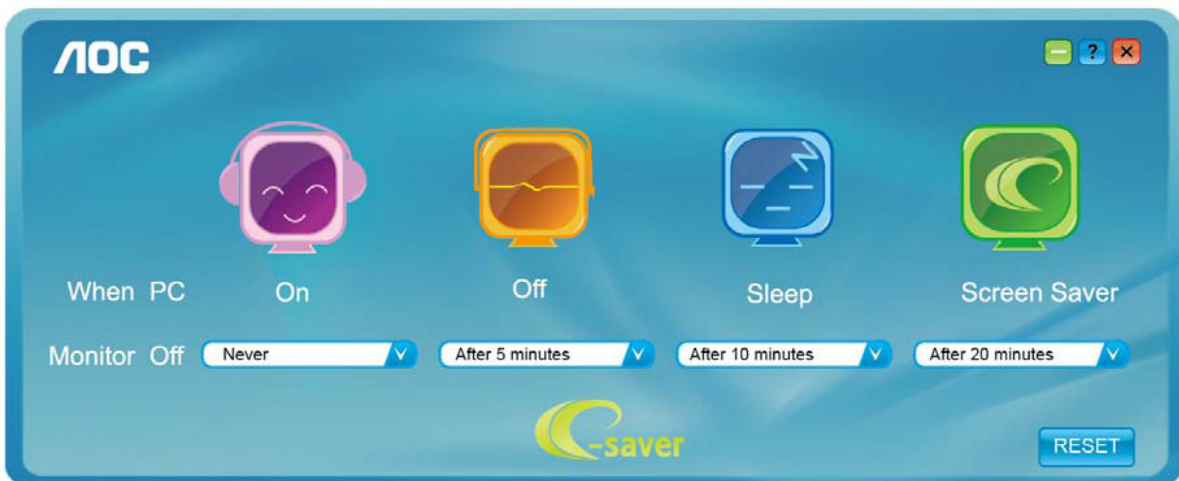| Problem & Question	Possible Solutions
Power LED Is Not ON	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.

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 HDMI cable)
	  Check the HDMI cable connection.
	  (Connected using the DP cable)
	  Check the DP cable connection.
	  * 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.
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.

Specification

General Specification

Panel	Model name	CU32V3		
	Driving system	TFT Color LCD		
	Viewable Image Size	80.0 cm diagonal		
	Pixel pitch	0.18159mm(H) x 0.18159mm(V)		
	Video	HDMI Interface & DP Interface		
	Display Color	16.7M Colors		
Others	Horizontal scan range	30k-160kHz		
	Horizontal scan Size(Maximum)	697.306mm		
	Vertical scan range	23-75Hz		
	Vertical Scan Size(Maximum)	392.234mm		
	Optimal preset resolution	3840x2160@60Hz		
	Plug & Play	VESA DDC2B/CI		
	Input Connector	HDMI1/HDMI2/DP		
	Power Source	100-240V~, 50/60Hz,1.5A		
	Power Consumption	Typical (default brightness and contrast)	41W	
		Max. (brightness = 100, contrast =100)	≤60W	
		Power saving	≤0.5W	
Physical Characteristics	Connector Type	HDMI/DP/Earphone out		
	Signal Cable Type	Detachable		
Environmental	Temperature	Operating	0°~ 40°	
		Non-Operating	-25°~ 55°	
	Humidity	Operating	10% ~ 85% (non-condensing)	
		Non-Operating	5% ~ 93% (non-condensing)	
	Altitude	Operating	0~ 5000 m (0~ 16404ft)	
		Non-Operating	0~ 12192m (0~ 40000ft)	

Preset Display Modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY(Hz)
VGA	640x480@60Hz	31.469	59.940
	640x480@72Hz	37.861	72.809
	640x480@75Hz	37.500	75.00
SVGA	800x600@56Hz	35.156	56.250
	800x600@60Hz	37.879	60.317
	800x600@72Hz	48.077	72.188
	800x600@75Hz	46.875	75.000
XGA	1024x768@60Hz	48.363	60.004
	1024x768@70Hz	56.476	70.069
	1024x768@75Hz	60.023	75.029
SXGA	1280x1024@60Hz	63.981	60.020
	1280x1024@75Hz	79.976	75.025
WXGA+	1440x900@60Hz	55.935	59.887
	1440x900@60Hz	55.469	59.901
WSXGA	1680x1050@60Hz	65.290	59.954
	1680x1050@60Hz	64.674	59.883
FHD	1920x1080@60Hz	67.500	60.000
***	1152x864@75Hz	67.500	75.000
	1280x960@60Hz	60.000	60.000
QHD	2560x1440@60Hz	88.787	59.951
UHD	3840x2160@30Hz	67.500	30
UHD	3840x2160@60Hz	135.00	60
IBM MODES			
DOS	640x350@70Hz	31.469	70.087
DOS	720x400@70Hz	31.469	70.087
MAC MODES			
VGA	640x480@67Hz	35.000	66.667
SVGA	832x624@75Hz	49.725	74.551
XGA	1024x768@75Hz	60.241	74.927

Pin Assignments

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		
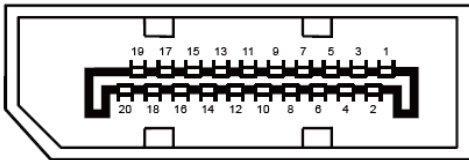
20-Pin Color Display Signal Cable

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.