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24B20JH2 Panel Monitor Aoc Monitor

24B20JH2 Panel Monitor Aoc Monitor Instructions

Contents

Panel Monitor

24B20JH2 Panel Monitor Aoc Monitor

Specification

- **Model: 24B20JH2**
- Manufacturer: AOC
- Input Power: 100-240V AC, Min. 5A
- Power Adapter Model: YD-BE1200250EU-6A
- Input: 100-240VAC 50/60Hz Max0.6A, Output: 12VDC, 2.5A
- Display Size: 24 inches
- Resolution: [Insert resolution here]
- Connections: HDMI, VGA

Product Usage Instructions:

Safety

Ensure the monitor is connected to the correct power source as indicated on the label. Unplug during lightning storms or extended periods of non-use to prevent damage from power surges.

Installation
When mounting the monitor, use an approved mounting kit and ensure proper ventilation to prevent damage. Avoid tilting the monitor downward beyond -5 degrees to maintain warranty coverage.

Cleaning
Regularly clean the monitor with a cloth and soft detergent. Avoid using strong detergents that may damage the cabinet. Disconnect the power cord before cleaning.

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 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.
- 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. receptacles marked between 100-240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter.
- Manufacturers: DONGGUAN YIDAI POWER TECHNOLOGY CO.,LTD.
- Model: YD-BE1200250EU-6A Input:100-240VAC 50/60Hz Max0.6A, Output:12VDC,2.5A

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. shock. Never spill liquids on the monitor.
- 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
- To avoid potential damage, for example the panel peeling from the bezel, ensure that the monitor does not tilt downward by more than -5 degrees. If the -5 degree downward tilt angle maximum is exceeded, the monitor damage will not be covered under warranty. See below the recommended ventilation areas around the monitor when the monitor is installed on the wall or on the stand:

Installde on the wall
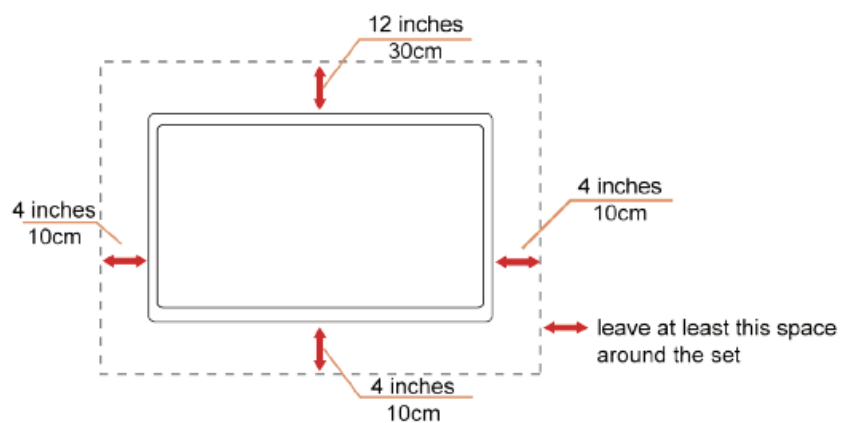
Installde with stand
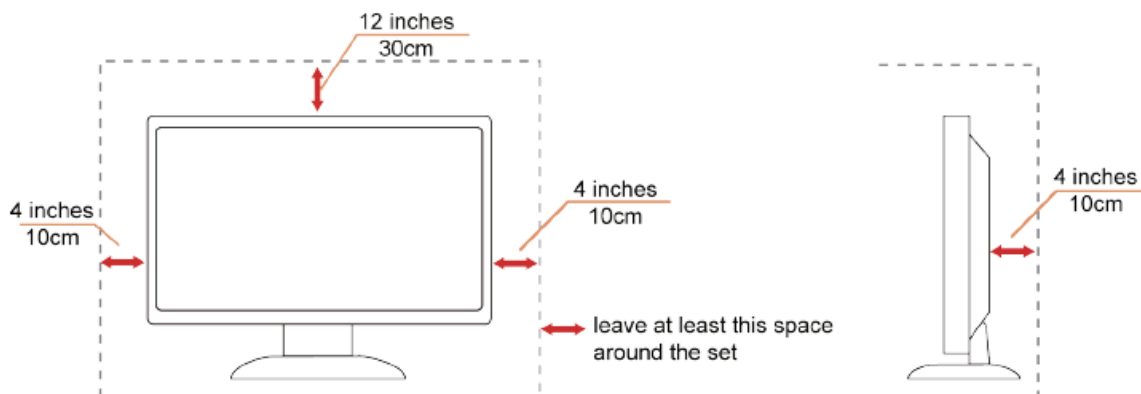
Cleaning

- 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.
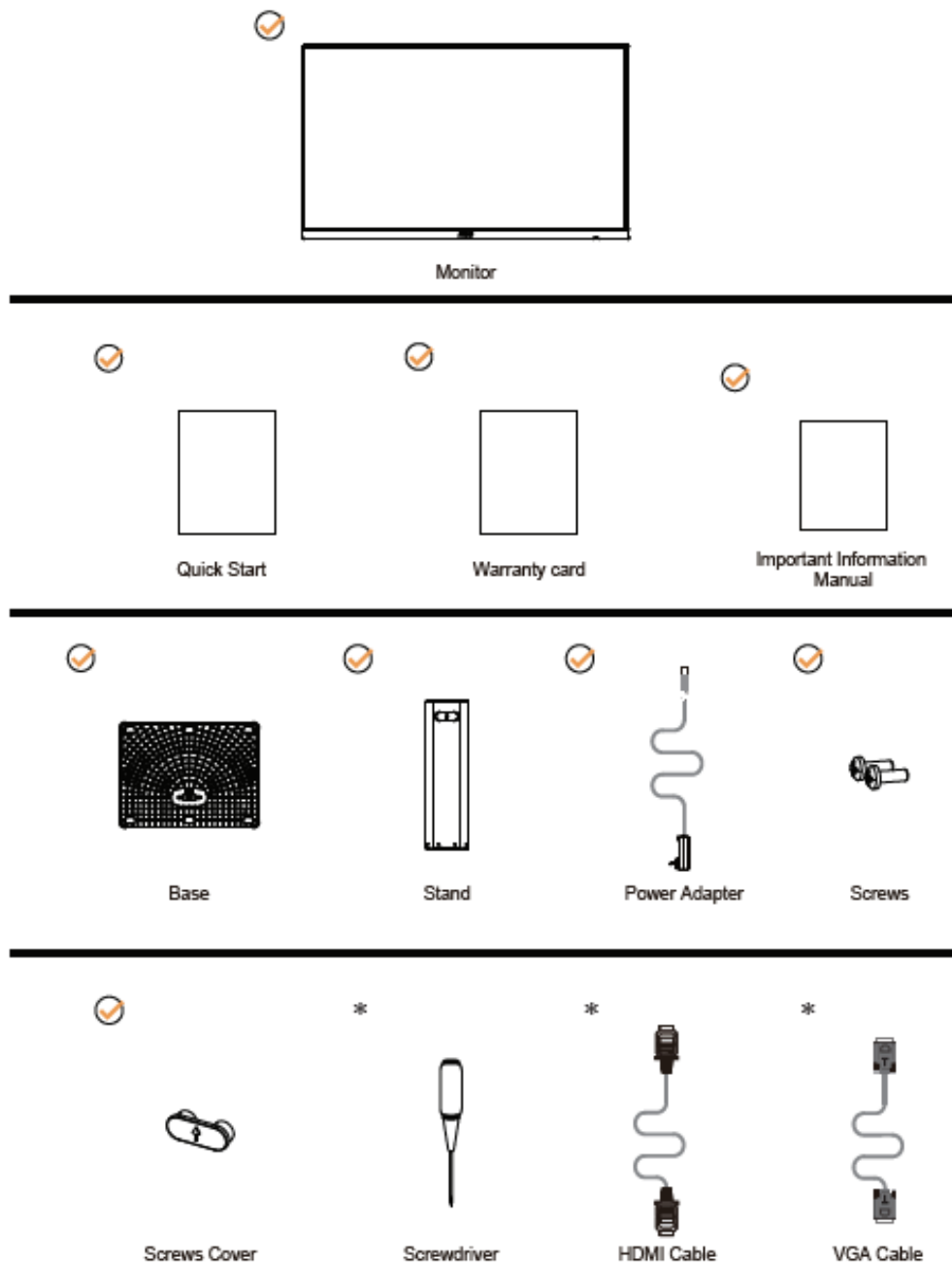

Other

- 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. 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

Monitor

Quick Start

Warranty card

Important Information Manual

Base

Stand

Power Adapter
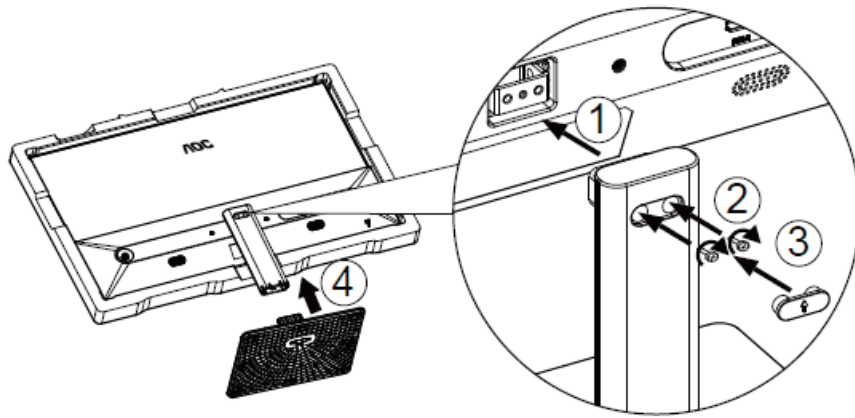
Screws

Screws Cover

Screwdriver

HDMI Cable

VGA Cable

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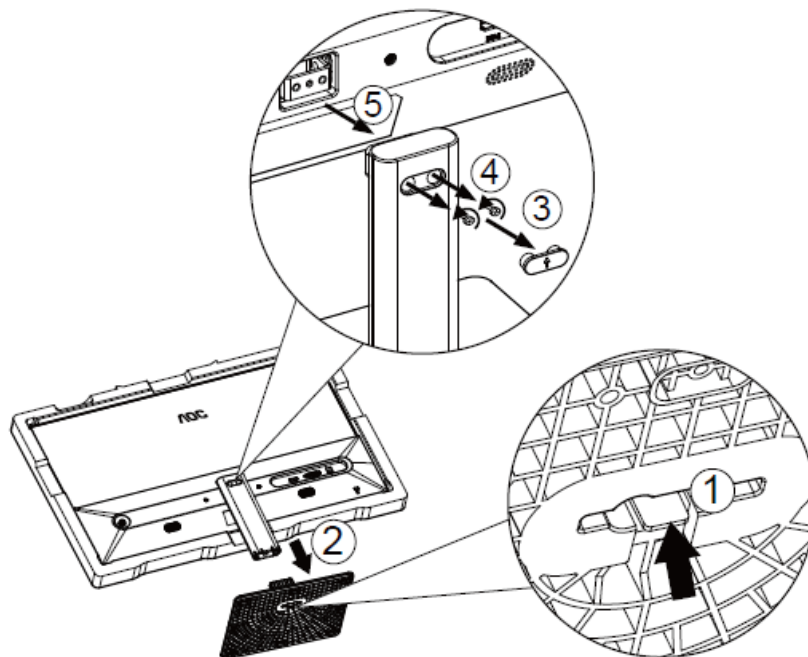
Setup Stand & Base

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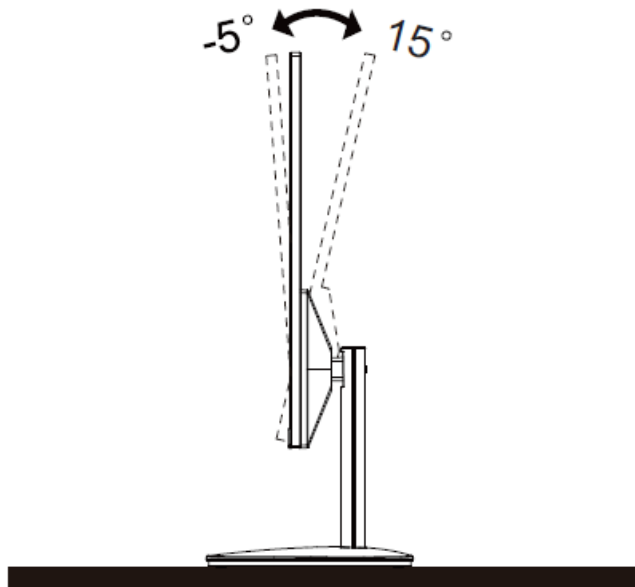
Setup:

Remove:

Adjusting Viewing Angle

For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.
Hold the stand so you will not topple the monitor when you change the monitor's angle.
You are able to adjust the monitor as below:

NOTE:

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

WARNING:

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

Connecting the Monitor

Cable Connections In Back of Monitor and Computer:
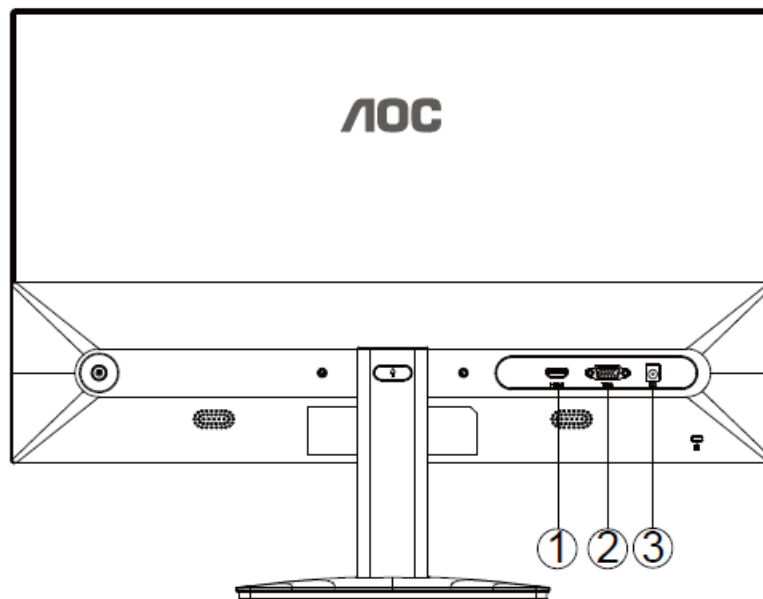
1. HDMI
2. VGA(D-SUB)
3. Power

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

Wall Mounting

Preparing to Install An Optional Wall Mounting Arm.
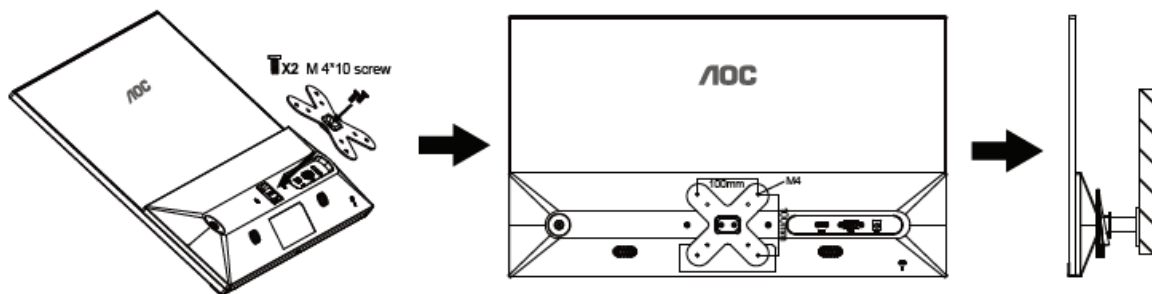
This product can be wall-mounted via a bracket adapter, compatible with 100×100mm VESA wall mounts. The bracket adapter is an optional component, and if you require wall-mount installation, please contact the manufacturer.Disconnect power before this procedure.
Follow these steps:

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.

Noted: VESA mounting screw holes are not available for all models, please check with the dealer or official department of AOC.
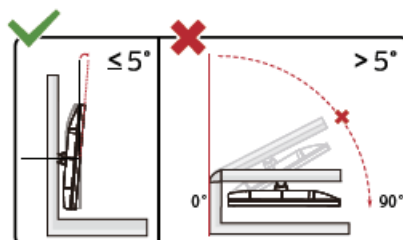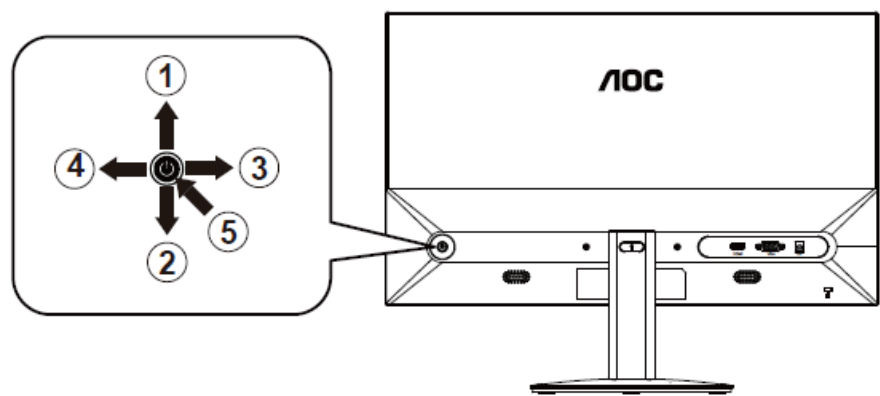

* Display design may differ from those illustrated.

WARNING: -5 degrees.

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

Adjusting

Hotkeys

1	Source/Auto/Exit/Up
2	Eco mode/DCR/Down
3	Clear Vision/Reduce/Left
4	Image ratio/Increase/Right
5	Power/Menu/Enter

Power/Menu/Enter
When the monitor is in the power-off state, press this button to turn on the monitor power.
When the monitor is in the power-on state, press this button to activate the OSD menu or confirm function adjustment; When the OSD menu is closed, press and hold this button for about 2 seconds to turn off the monitor.

Image Ratio/Increase/Right
When the OSD menu is closed, press the "Right" button to enter the image ratio switching function. Use the "Left" or
"Right" button to switch between 4:3 or widescreen display modes. (If the product input resolution is widescreen mode, the "Image Ratio" item in the OSD cannot be adjusted).

Eco mode/DCR/Down
When the OSD menu is closed, press the "Down" button to enter the brightness scene mode/dynamic contrast adjustment. Use the "Left" or "Right" button to select different brightness scene modes and turn on dynamic contrast.

Source/Auto/Exit/Up
When the OSD menu is closed, if the input is D-SUB, press and hold the "Up" button for about 2 seconds to enter the
auto-adjust function. The auto-adjust function will automatically set the horizontal position, vertical position, clock, and phase. When the OSD menu is closed, press the "Up" button to activate the signal source switching function.

Use the "Up" or
"Down" button to select the signal source displayed in the information bar. Press the "Menu" button to adjust to the selected signal source.
When the OSD menu is active, the "Up" button serves as the exit key (to exit the OSD menu).

Clear Vision

1. When there is no OSD, Press the "<" 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".
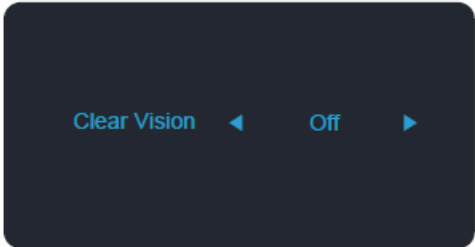
Clear Vision ◀ Off ▶

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 Menu or Exit button, the message will disappear. Press and hold " Right" button for 5 seconds again, Clear Vision Demo will be off.
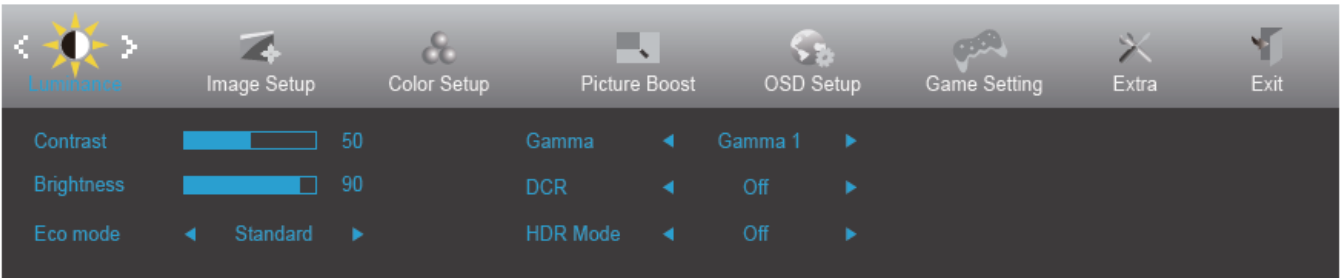
Clear Vision Demo: ON
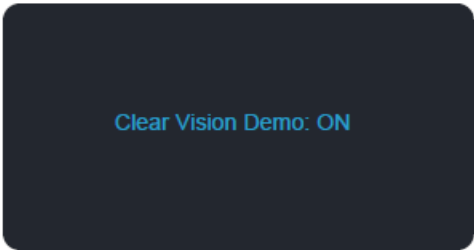
Clear Vision function provides the best image viewing experience by converting low resolution and blurry images into clear and vivid images.

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

OSD Setting

Basic and simple instruction on the control keys.

Luminance	Image Setup	Color Setup	Picture Boost	OSD Setup	Game Setting	Extra	Exit
Contrast ▬▬▬▬ 50			Gamma ◀ Gamma 1 ▶				
Brightness ▬▬▬▬ 90			DCR ◀ Off ▶				
Eco mode ◀ Standard ▶			HDR Mode ◀ Off ▶				

1. Press ⏻the power button to activate the OSD window.

2. Press " ⏻L eft " or " R ight " button to navigate through the functions. Once the desired function is highlighted, press the " Down " button to activate it, press ⏻" Up " " Down " " Left " " Right " button to navigate through the sub-menu functions. Once the desired function is highlighted, press power button to activate it.

3. Press ⏻" Left " or " Right " button to change the settings of the selected function. Press power button to exit. If you want to adjust any other function, repeat steps 2-3.

4. OSD Lock Function: When the OSD menu is closed, Long press the " down " button for about 10 seconds to lock or unlock the OSD menu.

Notes

1. If the input signal resolution of the product is local resolution or Adaptive Sync mode, the "Image Scale" option becomes invalid.

2. Activating one of the DCR, color brightening, and window brightening functions will automatically turn off the other two functions.

Luminance
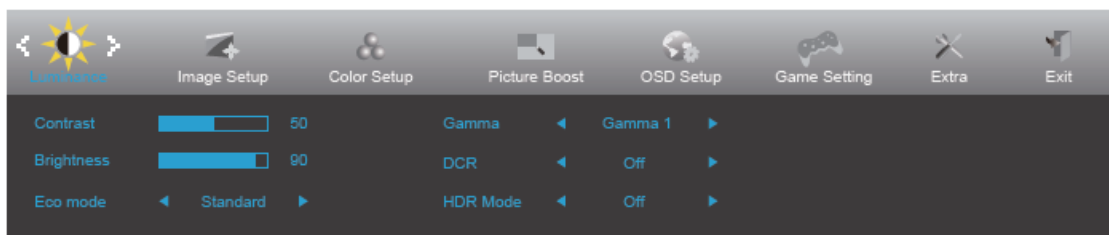
	Contrast	0-100		Contrast from Digital-register.
	Brightness	0-100		Backlight Adjustment.
	Eco mode	Standard	✓	Standard Mode.
		Text	T	Text Mode.
		Internet	e	Internet Mode.
		Game		Game Mode.
		Movie		Movie Mode.
		Sports		Sports Mode.
		Reading	R	Reading Mode.
	Gamma	Gamma1		Adjust to Gamma 1.
		Gamma2		Adjust to Gamma 2.
		Gamma3		Adjust to Gamma 3.
	DCR	Off		Disable dynamic contrast ratio.
		On	DCR	Enable dynamic contrast ratio.
	HDR Mode	Off		Select HDR Mode.
		HDR Picture		
		HDR Movie		
		HDR Game		

Note:

When "HDR Mode" is set to "non-off", the items "Contrast", "ECO", "Gamma" cannot be adjusted. When " Color Gamut" under " Color Setup" is set to " sRGB", the items " Contrast", "ECO", "Gamma" cannot be adjusted.

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

Note:

The image settings can only be adjusted under VGA signals.
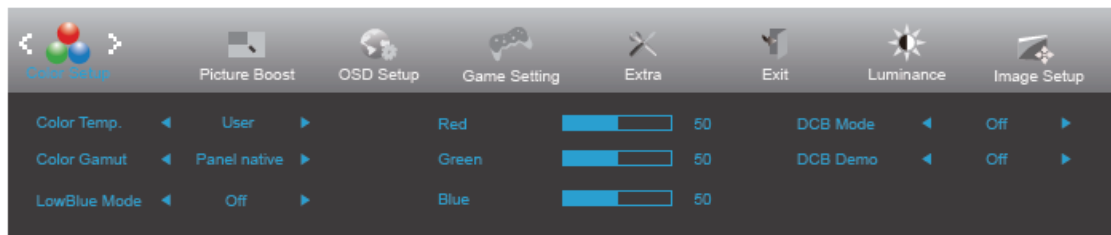
Color Setup

|		Warm	Recall Warm Color Temperature from EEPROM.
	Color Temp.	Normal	Recall Normal Color Temperature from EEPROM.
		Cool	Recall Cool Color Temperature from EEPROM.
		User	Restore Color Temperature from EEPROM.
	Color Gamut	Panel Native	Standard color space panel.
		sRGB	Recall SRGB Color Temperature from EEPROM.
	LowBlue Mode	Reading / Office / Internet / Multimedia / Off	Decrease blue light wave by controlling color temperature.
	Red	0-100	Red gain from Digital-register.
	Green	0-100	Green gain from Digital-register.
	Blue	0-100	Blue gain from Digital-register.
		Full Enhance	Disable or Enable Full Enhance Mode
		Nature Skin	Disable or Enable Nature Skin Mode
	DCB Mode	Green Field	Disable or Enable Green Field Mode
		Sky-blue	Disable or Enable Sky-blue Mode
		AutoDetect	Disable or Enable AutoDetect Mode
		Off	Disable or Enable DCB Mode
	DCB Demo	On or Off	Disable or Enable Demo

Note:
When " HDR Mode " under " Luminance " is set to " non-off " , all items under " Color Setup" cannot be adjusted.
When " Color Gamut " is set to " sRGB " , all items under " Color Setup" cannot be adjusted.

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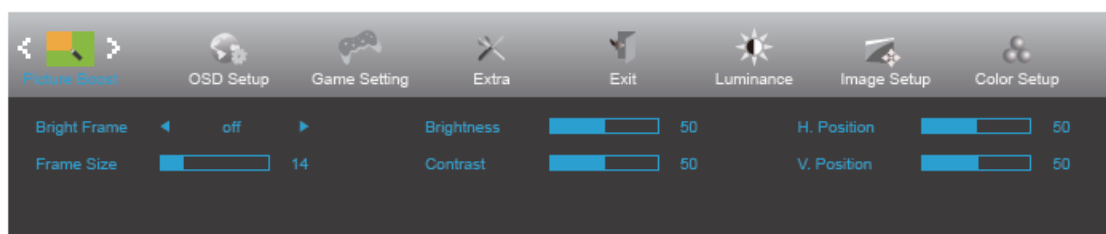
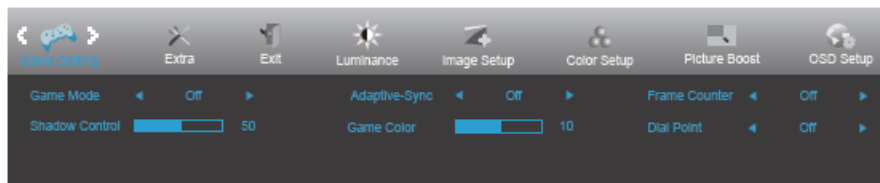|	Bright Frame	on or off	Disable or Enable Bright Frame
	Frame Size	14-100	Adjust Frame Size
	Brightness	0-100	Adjust Frame Brightness
	Contrast	0-100	Adjust Frame Contrast
	H. position	0-100	Adjust Frame horizontal Position
	V. position	0-100	Adjust Frame vertical Position

Note:
When "HDR Mode" under "Luminance" is set to "non-off", all items under "Picture Boost" cannot be adjusted.

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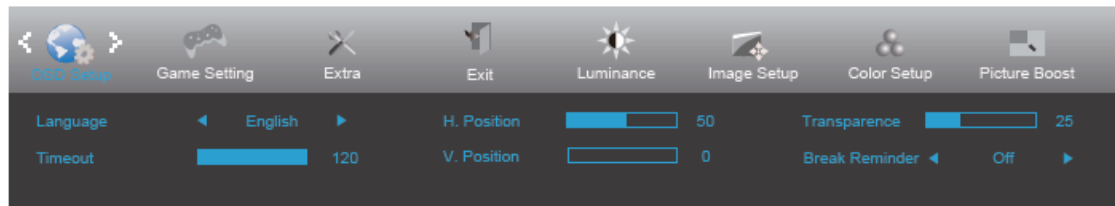
Language		Select the OSD language	
Timeout	5-120	Adjust the OSD Timeout	
H. Position	0-100	Adjust the horizontal position of OSD	
V. Position	0-100	Adjust the vertical position of OSD	
Transparence	0-100	Adjust the transparence of OSD	
Break Reminder	on or off	Break reminder if the user continuously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

Game Setting

		Off	No optimization by Smart image game
	Game Mode	FPS	For playing FPS (first Person Shooters) games. Improves dark theme black level details.
		RTS	For playing RTS (Real Time Strategy). Improves the image quality.
		Racing	For playing Racing games, Provides fastest response time and high color saturation.
		Gamer 1	User's preference settings saved as Gamer 1.
		Gamer 2	User's preference settings saved as Gamer 2.
		Gamer 3	User's preference settings saved as Gamer 3.
	Shadow Control	0-100	Shadow Control Default is 50, then end-user can adjust from 50 to 100 or 0 to increase contrast for clear picture. 1. If picture is too dark to be saw the detail clearly, adjusting from 50 to100 for clear picture. 2. If picture is too white to be saw the detail clearly, adjusting from 50 to0 for clear picture
	Adaptive-Sync	On or Off	Disable or Enable Adaptive-Sync.c Adaptive-Sync Run Reminder: When the Adaptive-Sync feature is enabled, there may be flashing in some game environments.
	Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.
	Frame Counter	Off / Right-up / Right-Down / Left-Down / Left-Up	Display V frequency on the corner selected
	Dial Point	On or Off	The"Dial Point"function places an aiming indicator in the center of screen for helping gamers to play First Person Shooter (FPS) games with an accurate and precise aiming.

Note:

When " HDR Mode " under " Luminance " is set to " non-off ", the items " Game Mode ", " Shadow Control ", " Game Color " cannot be adjusted.

When " Color Gamut " under " Color Setup " is set to " sRGB ", the items " Game Mode ", " Shadow Control ", " Game Color " cannot be adjusted.

Extra
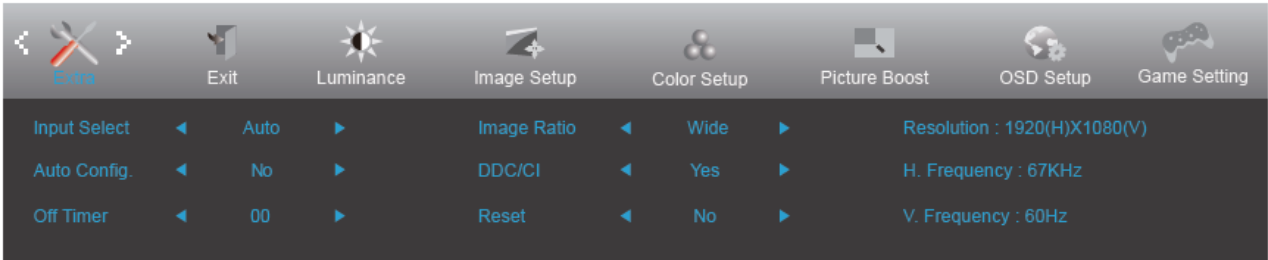
	Input Select	Auto) / HDMI / D-SUB	Select Input Signal Source
	Auto Config.	Yes or No	Auto adjust the picture to default.
	Off timer	0-24hrs	Select DC off time
	Image Ratio	Wide	Select image ratio for display.
		4:3	
	DDC/CI	Yes or No	Turn ON/OFF DDC/CI Support
	Reset	Yes or No	Reset the menu to default

Exit
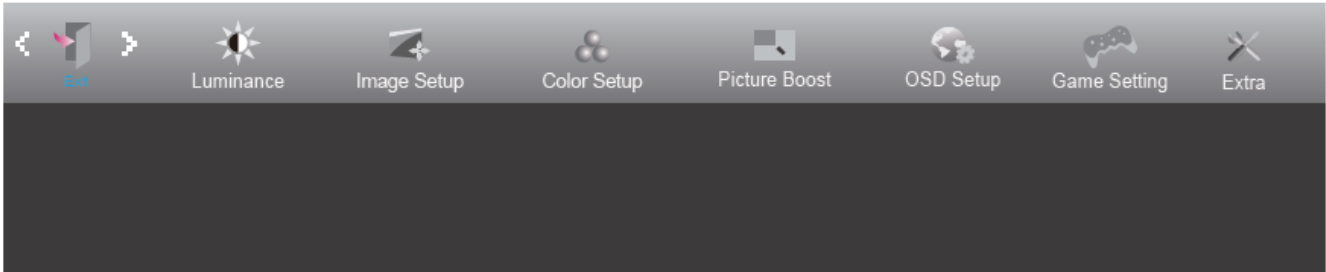
	Exit		Exit the main OSD

LED Indicator

Status	LED Color
Full Power Mode	White
	Orange

Troubleshoot

Problem & Question	Possible Solutions
Power LED Is Not ON	Make sure the power button is ON and the Power Cord is properly connected to a grounded power outlet and to the monitor.
No images on the screen	- Is the power cord connected properly? - Check the power cord connection and power supply. Is the cable connected correctly? (Connected using the VGA cable) Check the VGA cable connection. (Connected using the HDMI cable) Check the HDMI cable connection. - VGA/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 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.
Mode"	The Computer Power Switch should be in the ON position. Make sure the monitor's video cable is properly connected to the computer. Inspect the monitor's video cable and make sure no pin is bent. Make sure your computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.

Missing one of the primary colors (RED, GREEN, or BLUE)	Inspect the monitor's video cable and make sure that no pin is damaged. Make sure the monitor's video cable is properly connected to the computer.
Screen image is not centered or sized properly	Adjust H-Position and V-Position or press hot-key (AUTO).
Picture has color defects (white does not look white)	Adjust RGB color or select desired color temperature.
Horizontal or vertical disturbances on the screen	Use Windows 7/8/10 shut-down mode to adjust CLOCK and FOCUS. Press to auto-adjust.
Regulation & Service	Please refer to Regulation & Service Information which is in the CD manual Regulation & Service Information in Support page.

Specification

Main specifications

Panel	Model name	24B20JH2	
	Driving system	TFT Color LCD	
	Viewable Image Size	60.5cm diagonal	
	Pixel pitch	0.2745(H)mm x 0.2745(V) mm	
	Separate Sync	HDMI/VGA	
	Display Color	16.7M Colors	
Others	Horizontal scan range	30k ~ 85kHz(VGA) 30k ~ 115kHz(HDMI)	
	Horizontal scan Size(Maximum)	527.04 mm	
	Vertical scan range	48 ~ 75Hz(VGA) 48 ~ 100Hz(HDMI)	
	Vertical Scan Size(Maximum)	296.46 mm	
	Optimal preset resolution	1920×1080@60Hz	
	Max resolution	1920×1080@60Hz(VGA) 1920×1080@100Hz (HDMI)	
	Plug & Play	VESA DDC2B/CI	
	Power Source	12V 2.5A	
	Power Consumption	Typical(default brightness and contrast)	24W
		Max. (brightness = 100, contrast =100)	≤26W
		Standby mode	≤0.3W
Physical Characteristics	Connector Type	HDMI/VGA	
	Signal Cable Type	Detachable	
Environmental	Temperature	Operating	0°C~ 40°C
		Non-Operating	-25°C~ 55°C
	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 (±1Hz)	HORIZONTAL FREQUENCY(kHz)	VERTICAL FREQUENCY (Hz)
VGA	640×480@60Hz	31.469	59.94
	640×480@72Hz	37.861	72.809
	640×480@75Hz	37.500	75.000
MAC MODES VGA	640×480@67Hz	35.000	66.667
IBM MODE	720×400@70Hz	31.469	70.087
SVGA	800×600@56Hz	35.156	56.25
	800×600@60Hz	37.879	60.317
	800×600@72Hz	48.077	72.188
	800×600@75Hz	46.875	75.000
MAC MIDE SVGA	835 x 624@75Hz	49.725	74.500
XGA	1024×768@60Hz	48.363	60.004
	1024×768@70Hz	56.476	70.069
	1024×768@75Hz	60.023	75.029
SXGA	1280×1024@60Hz	63.981	60.020
	1280×1024@75Hz	79.976	75.025
WSXG	1280×720@60Hz	45.000	60.000
WXGA+	1440×900@60Hz	55.935	59.876
WSXGA+	1680×1050@60Hz	65.290	59.954
FHD	1920×1080@60Hz	67.500	60.000
	1920×1080@75Hz	83.909	74.986
	1920×1080@100Hz	110.000	100.000

Note:
According to the VESA standard, di erent operating systems and graphics cards may have certain errors (+/-1Hz) on resoution.Actual please refer to the actual product.

Pin Assignments
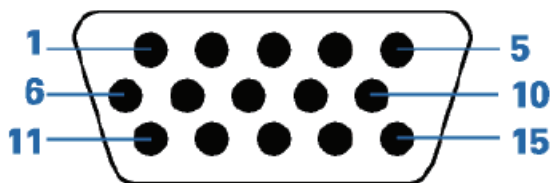
15-Pin Color Display Signal Cable

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		

19-Pin Color Display Signal Cable

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

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.

Documents / Resources

AOC 24B20JH2 Panel Monitor Aoc Monitor [pdf] Instructions
24B20JH2 Panel Monitor Aoc Monitor, 24B20JH2, Panel Monitor Aoc Monitor, Monitor Aoc Monitor, Aoc Monitor, Monitor

References

- **Ⲁ Homepage | AOC Monitors**
- **User Manual**