

AOC 24B2H2 LCD Monitor User Manual

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AOC 24B2H2 LCD Monitor



Product Information

The LCD Monitor User Manual is for the models 24B2H2 and 27B2H2 manufactured by AOC. The manual provides important safety information, troubleshooting tips, specifications, and setup instructions for the monitor. It also includes guidelines for cleaning the monitor and information about the contents of the package.

Safety

- Operate the monitor only with the indicated power source.
- During lightning storms or long periods of non-use, unplug the monitor to protect it from power surges.

Installation

- Do not place the monitor on an unstable surface to avoid injuries and damage.
- Use a recommended cart, stand, tripod, bracket, or table when installing the monitor.
- Avoid pushing objects into the monitor slot or spilling liquids on it.
- Leave adequate space around the monitor for proper air circulation to prevent overheating and potential fire or damage.
- Do not tilt the monitor downward more than -5 degrees to avoid panel peeling and warranty voiding.
- Ensure proper ventilation when mounting the monitor on a wall or stand.

Cleaning

- Regularly clean the monitor cabinet with a water-dampened, soft cloth.
- Use a soft cotton or microfiber cloth that is almost dry, without allowing any liquid into the case.
- Disconnect the power cord before cleaning.

Other

• If the product emits strange smells, sounds, or smoke, immediately disconnect the power plug and contact a Service Center.

Setup

- The package includes the monitor, quick start guide, warranty card, base, power cable, adaptor, HDMI cable, and audio cable.
- Not all signal cables are provided for all countries and regions. Check with the local dealer or AOC branch
 office for confirmation.

Setup Stand & Base

To set up or remove the base, follow the provided steps in the manual.

Adjusting Viewing Angle

For optimal viewing, look at the full face of the monitor and adjust the angle according to your preference. Hold the stand securely to prevent toppling while adjusting.

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.

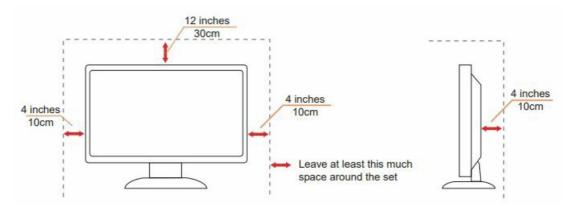
Power

- 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.
- 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.
- · For use only with the attached power adapter.
- Manufacturers: L&T DISPLAY TECHNOLOGY(FUJIAN)LTD.
- Model: STK025-19131T Input:100-240VAC 50/60Hz Max0.7A, Output:19VDC,1.31A

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.
- 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:

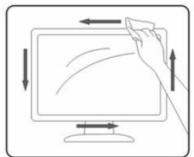


Cleaning

- Clean the cabinet regularly with a water-dampened, soft cloth.
- When cleaning use a soft cotton or microfiber cloth. The cloth should be damp and almost dry, do not allow liquid into the case.







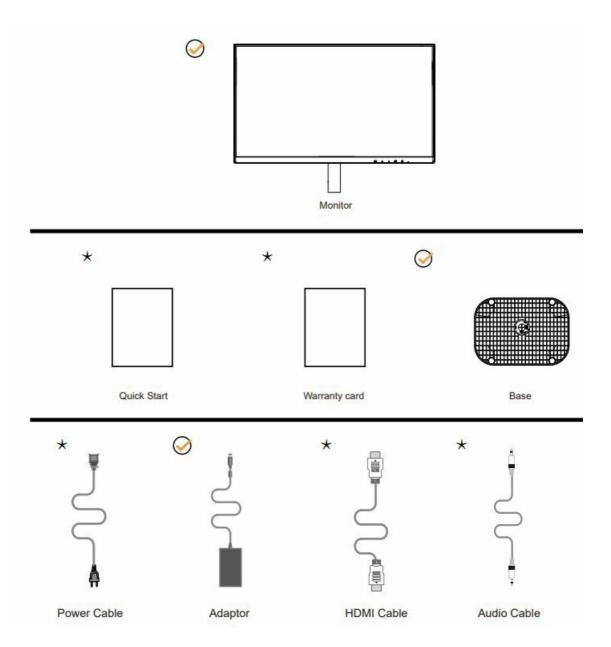
• Please disconnect the power cord before cleaning the product.

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.
- The power cords shall be safety approved. For Germany, it shall be H03VV-F, 3G, 0.75 mm2, or better. For other countries, the suitable types shall be used accordingly.
- Excessive sound pressure from earphones and headphones can cause hearing loss. Adjustment of the
 equalizer to maximum increases the earphones and headphones output voltage and therefore the sound
 pressure level.

Setup

Contents in Box

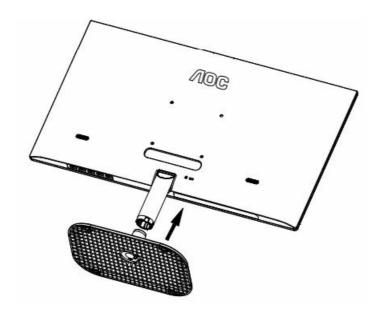


Not all signal cables will be provided for all countries and regions. Please check with the local dealer or AOC branch office for confirmation

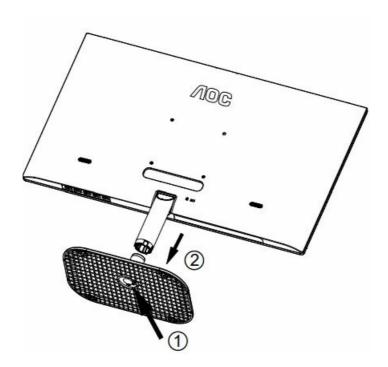
Setup Stand & Base

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

Setup:

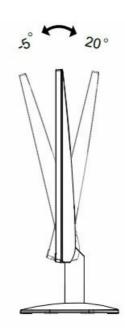


Remove:



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:

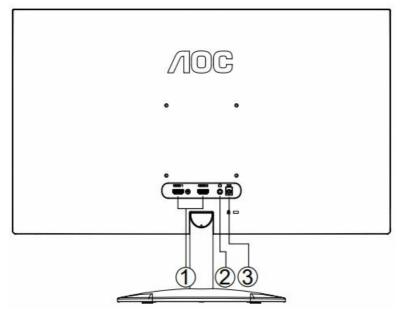
• Do not touch the LCD screen when you change the angle. Touching the LCD screen may cause damage.

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:



- 1. HDMI
- 2. Earphone
- 3. Power

Connect to PC

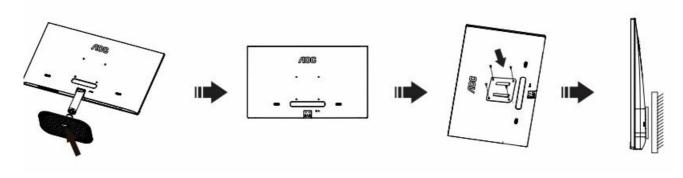
- 1. Connect the power cord to the back of the display firmly.
- 2. Turn off your computer and unplug its power cable.
- 3. Connect the display signal cable to the video connector on your computer.
- 4. Plug the power cord of your computer and your display into a nearby outlet.
- 5. Turn on your computer 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.

Wall Mounting

Preparing to Install An Optional Wall Mounting Arm.

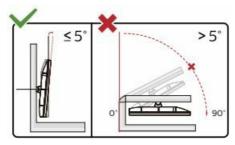


This monitor can be attached to a wall mounting arm you purchase separately. Disconnect power before this
procedure.

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.



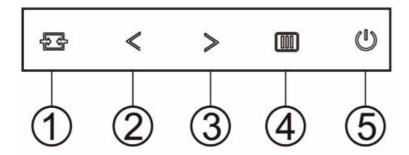
Display design may differ from those illustrated.

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.

Adjusting

Hotkeys



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

Menu/Enter

• When there is no OSD, Press to display the OSD or confirm the selection.

Power

• Press the Power button to turn on the monitor.

Volume/Image ratio

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

Source/Exit

- When the OSD is closed, press Source/Exit button will be Source hot key function.
- When the OSD is closed, press Source/Exit button continuously about 2 second to do auto configure (Only for the models with D-Sub).

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.



4. 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.

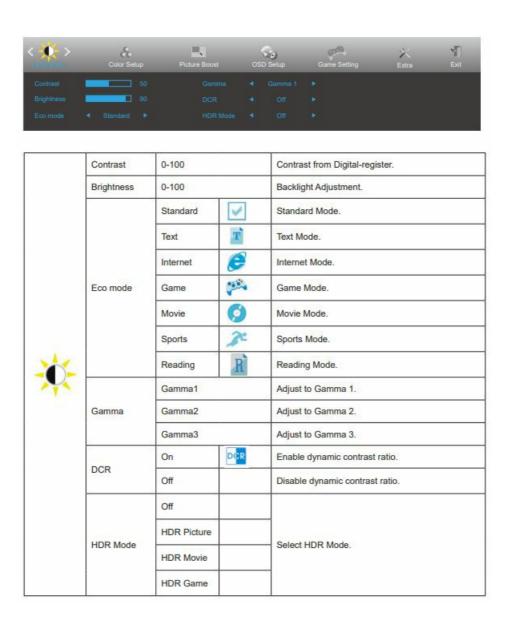


- 1. Press the MENU-button to activate the OSD window.
- 2. Press Left or Right to navigate through the functions. Once the desired function is highlighted, press the MENU-button to activate it, press Left or Right to navigate through the sub-menu functions. Once the desired function is highlighted, press MENU-button to activate it.
- 3. Press Left or to change the settings of the selected function. Press to exit. If you want to adjust any other function, repeat steps 2-3.
- 4. **OSD Lock Function:** To lock the OSD, press and hold the MENU-button while the monitor is off and then press power button to turn the monitor on. To un-lock the OSD press and hold the MENU-button while the monitor is off and then press power button to turn the monitor on.

Notes:

- 1. If the product has only one signal input, the item of "Input Select" is disable to adjust.
- 2. DCB mode and Picture Boost, for these three states that only one state can exist.

Luminance

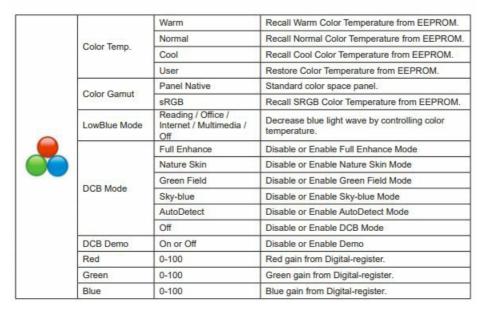


Note:

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

Color Setup





Note:

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

Picture Boost



Note:

Adjust the brightness, contrast, and position of the Bright Frame for better viewing experience. When "HDR Mode" under "Luminance" is set to "non-off", all items under "Picture Boost" cannot be adjusted.

OSD Setup



Game Setting



		Off	No optimization by 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.		
	Game Mode	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 to 100 for clear picture. 2. If picture is too white to be saw the detail clearly, adjusting from 50 to 0 for clear picture.		
		Weak	Adjust the response time.		
And a	Overdrive	Medium			
		Strong			
		Off			
	Game Color	0-20	Game Color will provide 0-20 level for adjusting saturation to get better picture.		
	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.		
	8		Disable or Enable Adaptive-Sync.c		
	Adaptive-Sync	On or Off	Adaptive-Sync Run Reminder: When the Adaptive- Sync feature is enabled, there may be flashing in some game environments.		
	Frame Counter	Off / Right-up / Right- Down / Left-Down / Left-Up	Display V frequency on the corner selected		

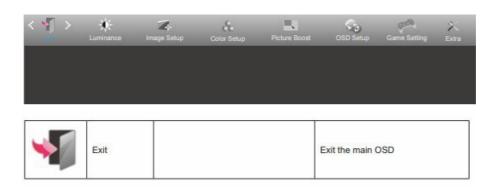
Note:

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

Extra



Exit



LED Indicator

Status	LED Color		
Full Power Mode	White		
Active-off Mode	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 t o a grounded power outlet and to the monitor.		

	Is the power cord connected properly?
	Check the power cord connection and power supply. Is the video cable connected correctly??
	(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 scree n.) 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 freq uency 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.
No images on the screen	Can you see "Input Not Supported" on the screen?
No images on the screen	You can see this message when the signal from the video card exceeds the m aximum 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.
	Adjust the Contrast and Brightness Controls.
Dioturo la Euggy & Han Chan	Press hot-key (AUTO) to auto-adjust.
Picture Is Fuzzy & Has Ghos ting Shadowing Problem	Make sure you are not using an extension cable or switch box. We recommen d plugging the monitor directly to the video card output connector on the back.
	Move electrical devices that may cause electrical interference as far away from the
Picture Bounces, Flickers O r Wave Pattern Appears In T	monitor as possible.
he Picture	Use the maximum refresh rate your monitor is capable of at the resolution you are using.
	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. In spect the monitor's video cable and make sure no pin is bent.
Monitor Is Stuck In Active O ff- Mode"	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 O N or
	OFF after hitting the CAPS LOCK key.
1	

Missing one of the primary c olors (RED, GREEN, or BLU E)	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 centere d or sized properly	Adjust H-Position and V-Position or press hot-key (AUTO).		
Picture has color defects (w hite does not look white)	Adjust RGB color or select desired color temperature.		
Horizontal or vertical disturb ances on the screen	Use Windows 7/8/10 shut-down mode to adjust CLOCK and FOCUS. Press hot-key (AUTO) 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.)		

Specification

General Specification (24B2H2)

	Model name	24B2H2				
Panel	Driving system	TFT Color LCD				
	Viewable Image Size	60.47cm diagonal				
	Pixel pitch	0.2745(H)mm x 0.2745(V) mm				
	Display Color	16.7M Colors				
	Horizontal scan range	30k-115kHz				
	Horizontal scan Size(Maximum)	527.04mm				
	Vertical scan range	48-100Hz				
	Vertical Scan Size(M aximum)	296.46mm				
	Optimal preset resolu tion	1920×1080@60Hz				
	Max resolution	1920×1080@100Hz				
	Plug & Play	VESA DDC2B/CI				
Others	Power Source	19Vdc,1.31A				
		Typical(default brightness and contrast)	17W			
	Power Consumption	Max. (brightness = 100, contrast =100)	≤ 25W			
		Standby mode	≤0.3W			
Physical	Connector Type HDMIx2/Earphone					

erature	Operating Non-Operating Operating	0°C~ 40°C -25°C~ 55°C				
		-25°C~ 55°C				
lity	Operating	-25°C~ 55°C				
	1	10% ~ 85% (non-condensing)				
	Non-Operating	5% ~ 93% (non-condensing)				
e	Operating	0 ~ 5000 m (0~ 16404ft)				
E	Non-Operating 0 ~ 12192m (0~ 40000ft)					
name	24B2H2					
g system	TFT Color LCD	TFT Color LCD				
ble Image Size	60.47cm diagona	al .				
oitch	0.2745(H)mm x 0).2745(V) mm				
y Color	16.7M Colors					
ntal scan	30k-115kHz	30k-115kHz				
ntal scan Size(num)	527.04mm					
al scan range	48-100Hz					
al Scan Size(M m)	296.46mm					
al preset resolu	1920×1080@60Hz					
esolution	1920×1080@100Hz					
Play	VESA DDC2B/CI					
Source	19Vdc,1.31A					
	Typical(default brightness and contrast) 17W					
Consumption	Max. (brightness	≤ 25W				
·	Standby mode					
ector Type	HDMIx2/Earphone					
Cable Type	Detachable					
	Operating	0°C~ 40°C				
erature	Non-Operating	ting -25°C~ 55°C				
	Operating	perating 10% ~ 85% (non-condensing)				
lity	Non-Operating	5% ~ 93% (non-condensing)				
	Operating	0 ~ 5000 m (0~ 16404ft)				
ity	/	Non-Operating	Non-Operating 5% ~ 93% (non-condensing)			

Non-Operating	0 ~ 12192m (0~ 40000ft)
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General Specification (27B2H2)

Standard	Resolution(±1Hz)	Horizontal Frequency(kHz	Vertical Frequency(Hz)
	640×480@60Hz	31.469	59.94
VGA	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
	800×600@56Hz	35.156	56.25
	800×600@60Hz	37.879	60.317
SVGA	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
	1024×768@60Hz	48.363	60.004
XGA	1024×768@70Hz	56.476	70.069
	1024×768@75Hz	60.023	75.029
	1280×1024@60Hz	63.981	60.020
SXGA	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
	1920×1080@60Hz	67.500	60.000
FHD	1920×1080@75Hz	83.909	74.986
	1920×1080@100Hz	110.000	100.000

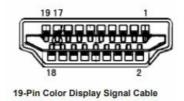
Preset Display Modes

Standard	Resolution(±1Hz)	Horizontal Frequency(kHz	Vertical Frequency(Hz)
	640×480@60Hz	31.469	59.94
VGA	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
	800×600@56Hz	35.156	56.25
	800×600@60Hz	37.879	60.317
SVGA	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
	1024×768@60Hz	48.363	60.004
XGA	1024×768@70Hz	56.476	70.069
	1024×768@75Hz	60.023	75.029
	1280×1024@60Hz	63.981	60.020
SXGA	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
	1920×1080@60Hz	67.500	60.000
FHD	1920×1080@75Hz	83.909	74.986
	1920×1080@100Hz	110.000	100.000

Note:

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

Pin Assignments



19-Pin Color Display Signal Cable

Pin N o.	Signal Name	Pin N o.	Signal Name	Pin N o.	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.
- www.aoc.com
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Documents / Resources



AOC 24B2H2 LCD Monitor [pdf] User Manual 24B2H2, 27B2H2, 24B2H2 LCD Monitor, LCD Monitor, Monitor

References

• 1 Homepage | AOC Monitors

Manuals+,