



# LCD Monitor User Manual

**U27V3/27V3H/Q27V3** LED backlight



**HDMI<sup>®</sup>**

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# Safety

## National Conventions

The following subsections describe notational conventions used in this document.

### Notes, Cautions, and Warnings

Throughout this guide, blocks of text may be accompanied by an icon and printed in bold type or in italic type. These blocks are notes, cautions, and warnings, and they are used as follows:



**NOTE:** A NOTE indicates important information that helps you make better use of your computer system.



**CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



**WARNING:** A WARNING indicates the potential for bodily harm and tells you how to avoid the problem. Some warnings may appear in alternate formats and may be unaccompanied by an icon. In such cases, the specific presentation of the warning is mandated by regulatory authority.

## Power



The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.



The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.



Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.



Do not overload power strips and extension cords. Overloading can result in fire or electric shock.



To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, 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: ADPC1945EX

# 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.

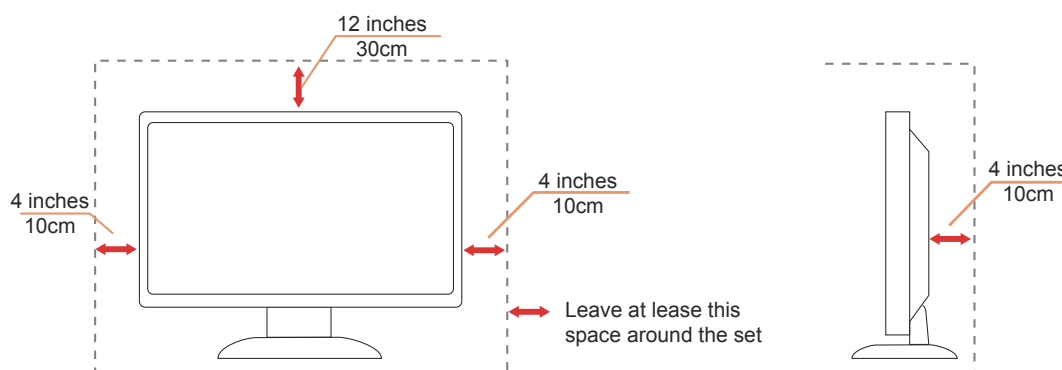
 Do not place the front of the product on the floor.

 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.



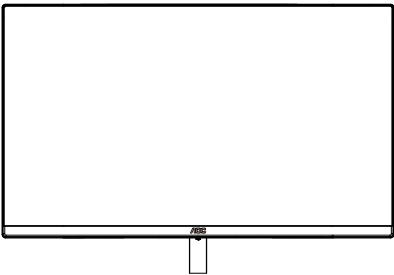
Do not engage the LCD monitor in severe vibration or high impact conditions during operation.



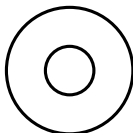
Do not knock or drop the monitor during operation or transportation.

# Setup

## Contents in Box



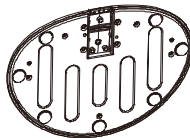
Monitor



CD Manual



Warranty Card



Base



Power Cord



Adapter



HDMI Cable



DP Cable



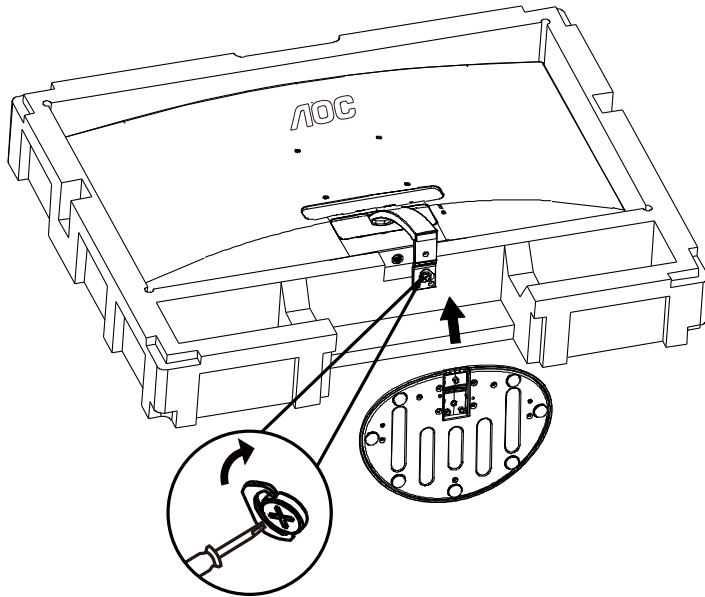
Audio Cable

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

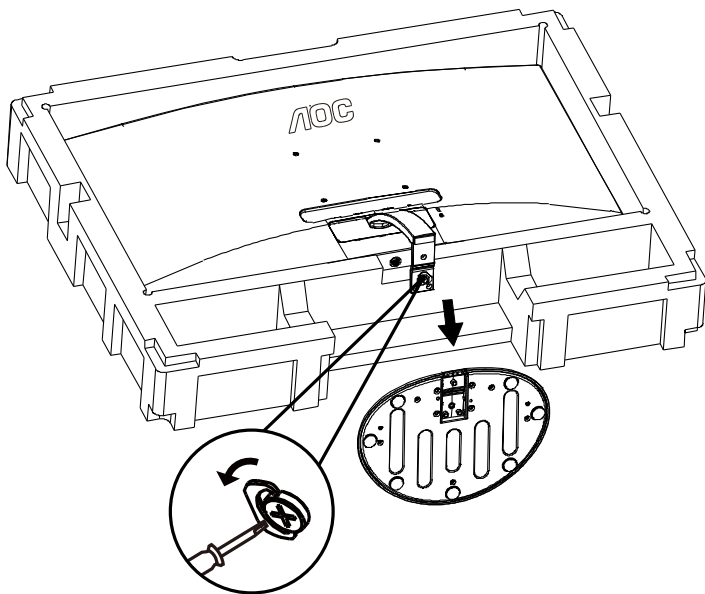
## Setup Stand & Base

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

### Setup:



### Remove:

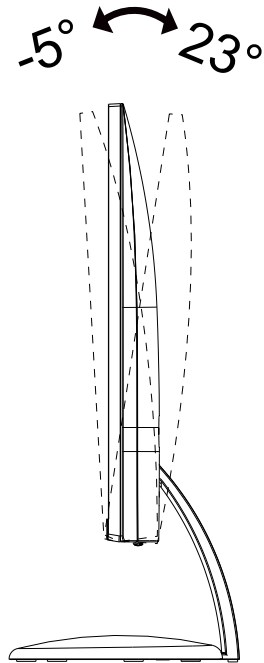


## Adjusting Viewing Angle

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:

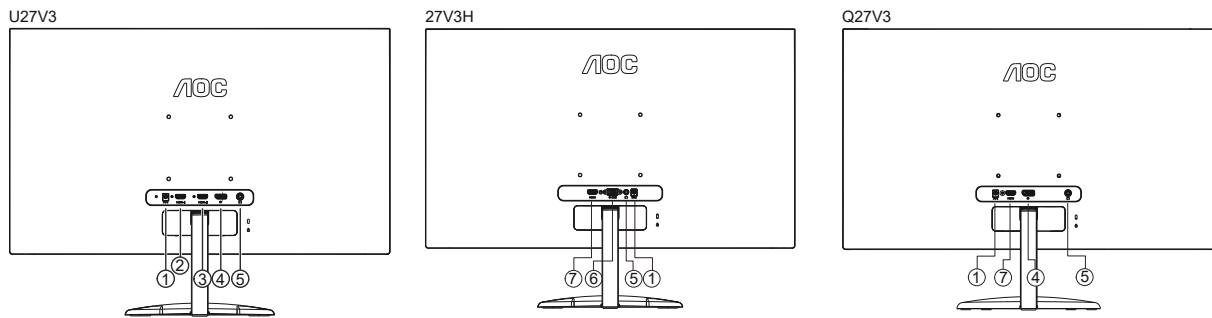


### NOTE:

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

# Connecting the Monitor

Cable Connections In Back of Monitor and Computer:



1. Power
2. HDMI-1
3. HDMI-2
4. DisplayPort
5. Earphone
6. D-SUB
7. HDMI

Connect to PC

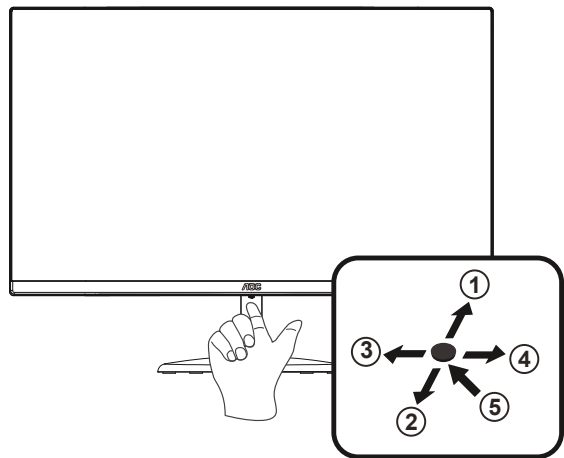
1. Connect the power cord to the back of the display firmly.
2. Turn off your computer and unplug its power cable.
3. Connect the display signal cable to the video connector on the back of your computer.
4. Plug the power cord of your computer and your display into a nearby outlet.
5. Turn on your computer 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/Down      |
| 3 | Clear Vision/Left |
| 4 | Volume/Right      |
| 5 | Power/ Menu/Enter |

### Menu/Enter

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

### Power

Press the Power button to turn on 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

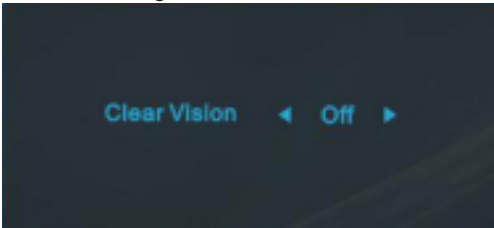
When the OSD is closed, press Source/Exit button will be Source hot key function.

### Eco /DCR/Down

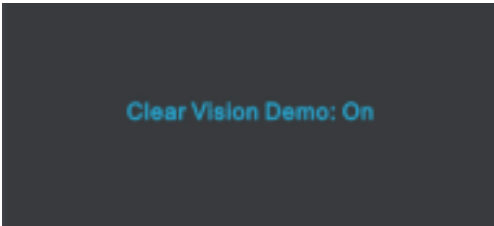
When there is no OSD, Press this button to enter Eco/DCR adjustment. Then press Left or Right button to choose different Eco/DCR.

**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.

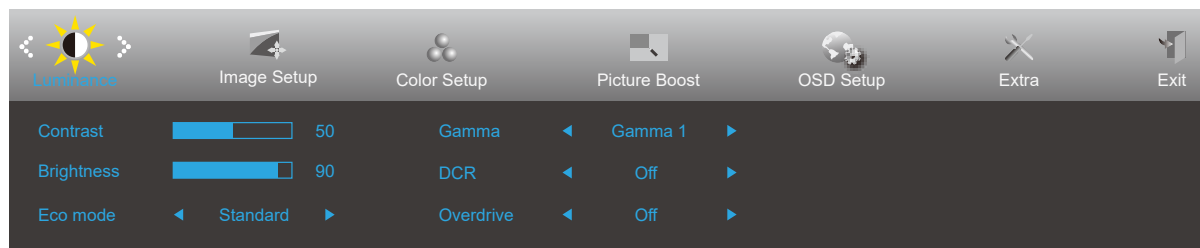


Clear Vision function provides the best image viewing experience by converting low resolution and blurry images into clear and vivid images.

|                   |           |                         |
|-------------------|-----------|-------------------------|
| 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.

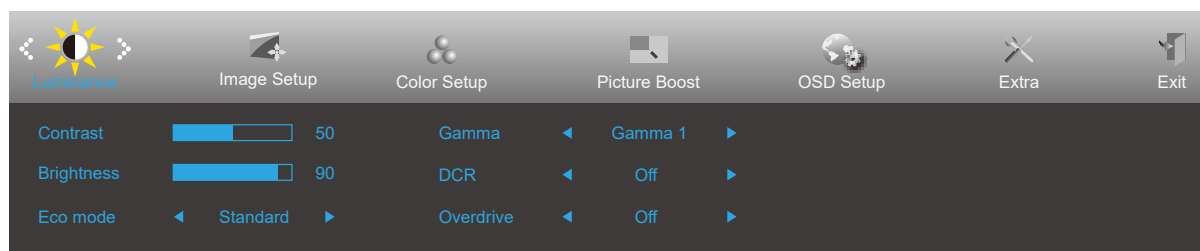


- 1). Press the **MENU-button** to activate the OSD window.
- 2). Press **Left** or **Right** to navigate through the functions. Once the desired function is highlighted, press the **MENU-button** to activate it, press **Left** or **Right** to navigate through the sub-menu functions. Once the desired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

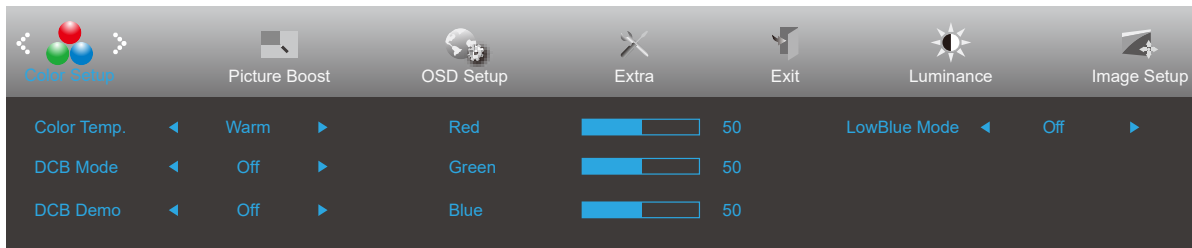
## Luminance





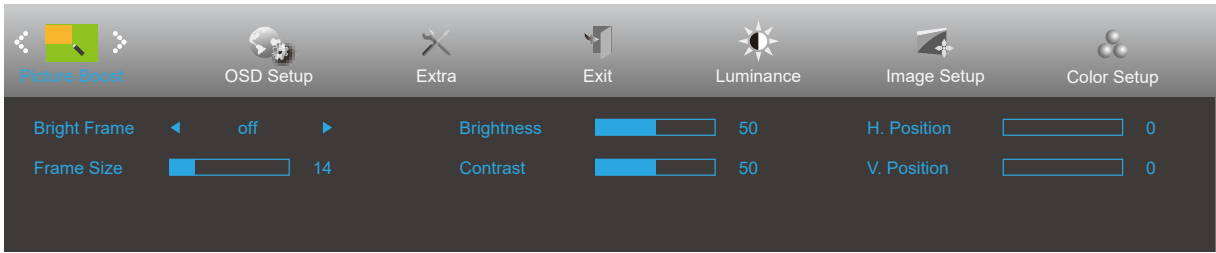
|  |            |                       |                                                                                     |                                 |
|--|------------|-----------------------|-------------------------------------------------------------------------------------|---------------------------------|
|  | Contrast   | 0-100                 |                                                                                     | Contrast from Digital-register. |
|  | Brightness | 0-100                 |                                                                                     | Backlight Adjustment            |
|  | Eco mode   | Standard              |    | Standard Mode                   |
|  |            | Text                  |    | Text Mode                       |
|  |            | Internet              |    | Internet Mode                   |
|  |            | Game                  |    | Game Mode                       |
|  |            | Movie                 |    | Movie Mode                      |
|  |            | Sports                |   | Sports Mode                     |
|  |            | Reading               |  | Reading Mode                    |
|  |            | Uniformity<br>(U27V3) |                                                                                     | 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                    |  | Enable dynamic contrast ratio   |
|  | Overdrive  | Weak                  |                                                                                     | Adjust the response time.       |
|  |            | Medium                |                                                                                     |                                 |
|  |            | Strong                |                                                                                     |                                 |
|  |            | Off                   |                                                                                     |                                 |

## Color Setup



|  |              |              |                                                           |                                              |
|--|--------------|--------------|-----------------------------------------------------------|----------------------------------------------|
|  | 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         |                                                           | 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            |
|  |              | OFF          | On or Off                                                 | Disable or Enable OFF 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          |                                                           |                                              |

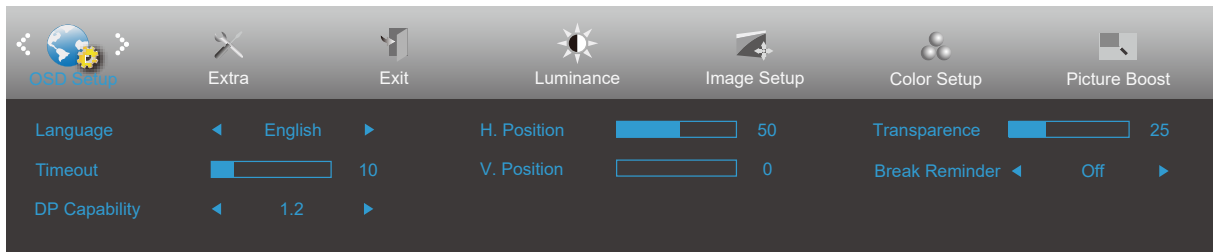
# Picture Boost



|                                                                                   |              |           |                                  |
|-----------------------------------------------------------------------------------|--------------|-----------|----------------------------------|
|  | 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   |

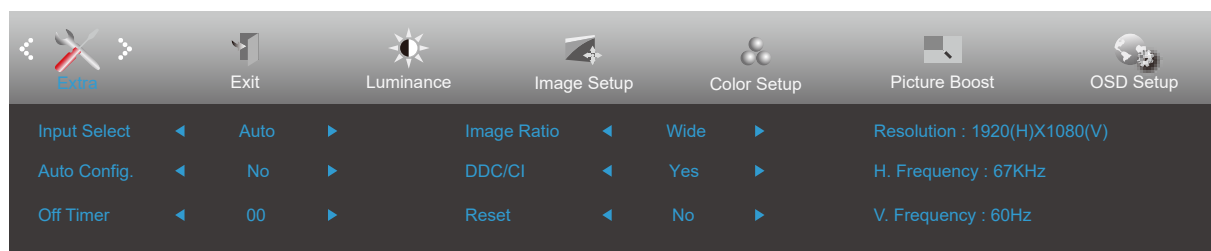
**Note:**  
Adjust the brightness, contrast, and position of the Bright Frame for better viewing experience.

## OSD Setup



|                                                                                   |                       |           |                                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------|-----------|---------------------------------------------------------------------------------------------------------------|
|  | Language              |           | Select the OSD language                                                                                       |
|                                                                                   | Timeout               | 5-120     | Adjust the OSD Timeout                                                                                        |
|                                                                                   | DP Capability (U27V3) | 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



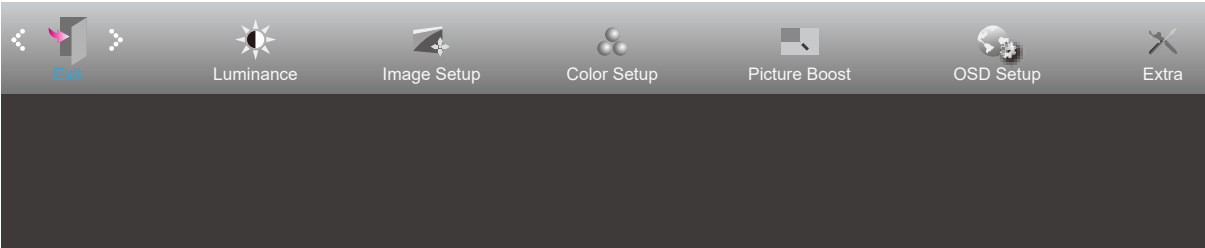
|                                                                                   |                         |                 |                                    |
|-----------------------------------------------------------------------------------|-------------------------|-----------------|------------------------------------|
|  | Input Select            |                 | Select Input Signal Source         |
|                                                                                   | Auto Config.<br>(27V3H) | Yes or No       | Auto adjust the picture to default |
|                                                                                   | Off timer               | 0-24hrs         | Select DC off time                 |
|                                                                                   | Image Ratio             | Wide            | Select wide format for display.    |
|                                                                                   |                         | 4:3             | 4:3                                |
|                                                                                   |                         | 1:1 (U27V3)     | Native resolution                  |
|                                                                                   |                         | Movie 1 (U27V3) | over scan: Top 9% ; Down 9%        |
|                                                                                   |                         | Movie 2 (U27V3) | over scan: Top 9% ; Down 17%.      |
|                                                                                   | DDC/CI                  | Yes or No       | Turn ON/OFF DDC/CI Support         |
|                                                                                   | Reset                   | Yes or No       | Reset the menu to default          |

Note:

1.Movie1 and Movie2 only support digital source.

2.Movie1 and Movie2 only support Video Timing(example:480I,480P,576I,576P,720P,1080i,1080P)

Exit



|                                                                                   |      |  |                   |
|-----------------------------------------------------------------------------------|------|--|-------------------|
|  | Exit |  | Exit the main OSD |
|-----------------------------------------------------------------------------------|------|--|-------------------|

# LED Indicator

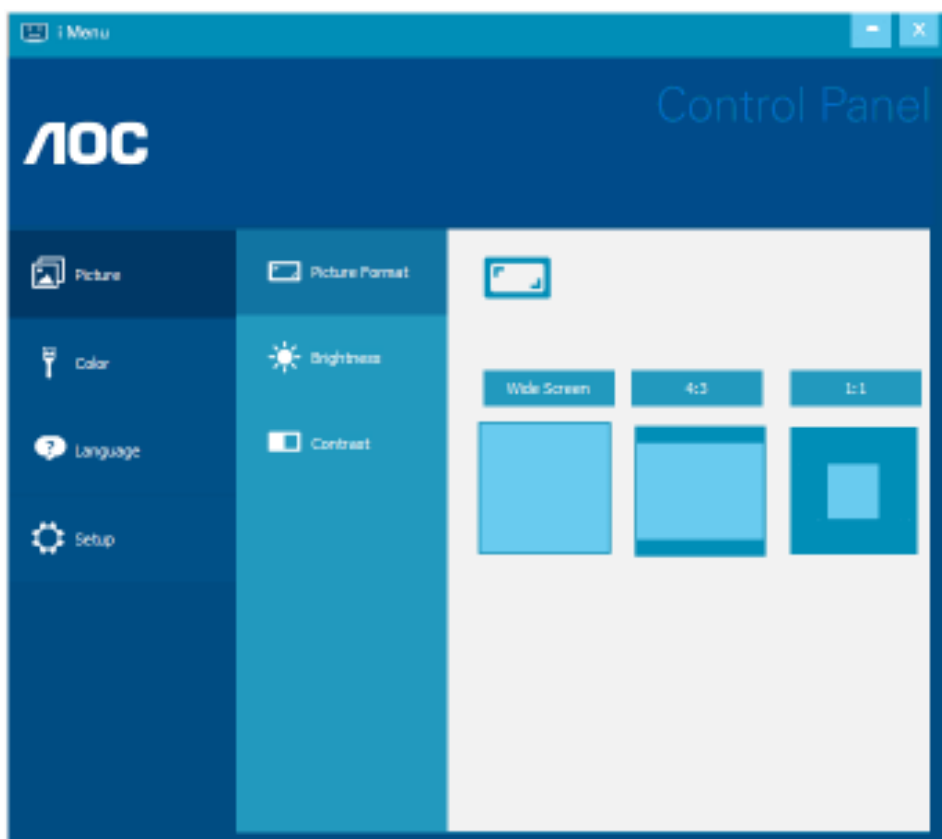
| Status          | LED Color |
|-----------------|-----------|
| Full Power Mode | White     |
| Active-off Mode | Orange    |

# Driver

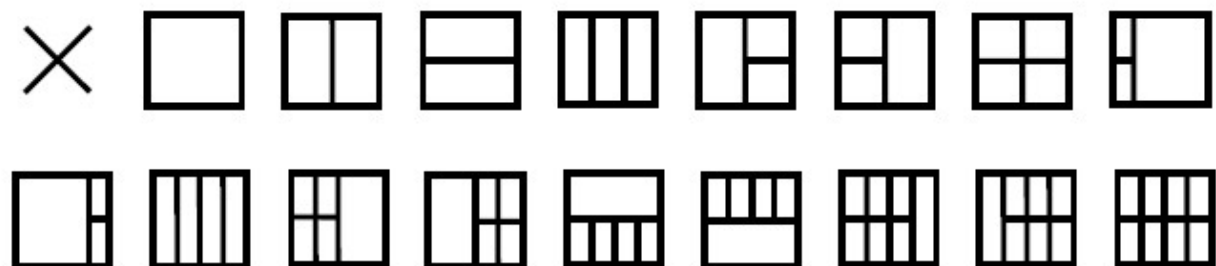
## i-Menu (Screen+)



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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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?<br/>Check the power cord connection and power supply.</li> <li>• Is the cable connected correctly?<br/>(Connected using the HDMI cable)<br/>Check the HDMI cable connection.<br/>(Connected using the DP cable)<br/>Check the DP cable connection.<br/>* HDMI/DP 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.<br/>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.<br/>(Refer to the Setting the Optimal Resolution)<br/>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?<br/>You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.<br/>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.<br>Press to auto adjust.<br>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.<br>Use the maximum refresh rate your monitor is capable of at the resolution you are using.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Monitor Is Stuck In Active Off-Mode"</b>                             | The Computer Power Switch should be in the ON position.<br>The Computer Video Card should be snugly fitted in its slot.<br>Make sure the monitor's video cable is properly connected to the computer.<br>Inspect the monitor's video cable and make sure no pin is bent.<br>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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Missing one of the primary colors (RED, GREEN, or BLUE)</b>          | Inspect the monitor's video cable and make sure that no pin is damaged.<br>Make sure the monitor's video cable is properly connected to the computer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Picture has color defects (white does not look white)</b>            | Adjust RGB color or select desired color temperature.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Horizontal or vertical disturbances on the screen</b>                | Use Windows 7/8/10 shut-down mode to adjust CLOCK and FOCUS.<br>Press to auto-adjust.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

# Specification

## General Specification

|                          |                               |                                           |                            |
|--------------------------|-------------------------------|-------------------------------------------|----------------------------|
| Panel                    | Model name                    | U27V3                                     |                            |
|                          | Driving system                | TFT Color LCD                             |                            |
|                          | Viewable Image Size           | 68.5 cm diagonal                          |                            |
|                          | Pixel pitch                   | 0.1554mm(H) x 0.1554mm(V)                 |                            |
| Others                   | Horizontal scan range         | 30k-160kHz                                |                            |
|                          | Horizontal scan Size(Maximum) | 596.736mm                                 |                            |
|                          | Vertical scan range           | 23-75Hz                                   |                            |
|                          | Vertical Scan Size(Maximum)   | 335.664mm                                 |                            |
|                          | Optimal preset resolution     | 3840x2160@60Hz                            |                            |
|                          | Plug & Play                   | VESA DDC2B/CI                             |                            |
|                          | Power Consumption             | Typical (default brightness and contrast) | 41W                        |
|                          |                               | Max. (brightness = 100, contrast =100)    | ≤ 60W                      |
|                          |                               | Power saving                              | ≤ 0.3W                     |
| 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 )    |

|                                        |                               |                                           |                            |
|----------------------------------------|-------------------------------|-------------------------------------------|----------------------------|
| Panel                                  | Model name                    | Q27V3                                     |                            |
|                                        | Driving system                | TFT Color LCD                             |                            |
|                                        | Viewable Image Size           | 68.5 cm diagonal                          |                            |
|                                        | Pixel pitch                   | 0.2331mm(H) x 0.2331mm(V)                 |                            |
| Others                                 | Horizontal scan range         | 30k-114kHz                                |                            |
|                                        | Horizontal scan Size(Maximum) | 596.736mm                                 |                            |
|                                        | Vertical scan range           | 48-75Hz                                   |                            |
|                                        | Vertical Scan Size(Maximum)   | 335.664mm                                 |                            |
|                                        | Optimal preset resolution     | 2560x1440@60Hz                            |                            |
|                                        | Plug & Play                   | VESA DDC2B/CI                             |                            |
|                                        | Power Consumption             | Typical (default brightness and contrast) | 25W                        |
| Max. (brightness = 100, contrast =100) |                               | ≤ 38W                                     |                            |
| Power saving                           |                               | ≤ 0.3W                                    |                            |
| 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 )    |

|                          |                               |                                           |                            |  |
|--------------------------|-------------------------------|-------------------------------------------|----------------------------|--|
| Panel                    | Model name                    | 27V3H                                     |                            |  |
|                          | Driving system                | TFT Color LCD                             |                            |  |
|                          | Viewable Image Size           | 68.6 cm diagonal                          |                            |  |
|                          | Pixel pitch                   | 0.3114mm(H) x 0.3114mm(V)                 |                            |  |
| Others                   | Horizontal scan range         | 30k-85kHz                                 |                            |  |
|                          | Horizontal scan Size(Maximum) | 597.888mm                                 |                            |  |
|                          | Vertical scan range           | 48-75Hz                                   |                            |  |
|                          | Vertical Scan Size(Maximum)   | 336.312mm                                 |                            |  |
|                          | Optimal preset resolution     | 1920x1080@60Hz                            |                            |  |
|                          | Plug & Play                   | VESA DDC2B/CI                             |                            |  |
|                          | Power Consumption             | Typical (default brightness and contrast) | 23W                        |  |
|                          |                               | Max. (brightness = 100, contrast =100)    | ≤ 28W                      |  |
| Power saving             |                               | ≤ 0.3W                                    |                            |  |
| Physical Characteristics | Connector Type                | HDMI/VGA/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 )    |  |

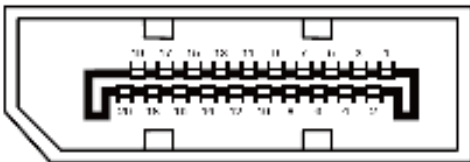
## Preset Display Modes

| STANDARD | RESOLUTION     | HORIZONTAL<br>FREQUENCY(kHz) | VERTICAL<br>FREQUENCY(Hz) |
|----------|----------------|------------------------------|---------------------------|
| VGA      | 640x480@60Hz   | 31.469                       | 59.94                     |
| VGA      | 640x480@67Hz   | 35                           | 66.667                    |
| VGA      | 640x480@72Hz   | 37.861                       | 72.809                    |
| VGA      | 640x480@75Hz   | 37.5                         | 75                        |
| DOS MODE | 720x400@70Hz   | 31.469                       | 70.087                    |
| SVGA     | 800x600@56Hz   | 35.156                       | 56.25                     |
| SVGA     | 800x600@60Hz   | 37.879                       | 60.317                    |
| SVGA     | 800x600@72Hz   | 48.077                       | 72.188                    |
| SVGA     | 800x600@75Hz   | 46.875                       | 75                        |
| SVGA     | 832x624@75Hz   | 49.725                       | 74.551                    |
| XGA      | 1024x768@60Hz  | 48.363                       | 60.004                    |
| XGA      | 1024x768@70Hz  | 56.476                       | 70.069                    |
| XGA      | 1024x768@75Hz  | 60.023                       | 75.029                    |
| SXGA     | 1280x1024@60Hz | 63.981                       | 60.02                     |
| SXGA     | 1280x1024@75Hz | 79.975                       | 75.025                    |
| Full HD  | 1920x1080@60Hz | 67.5                         | 60                        |
| QHD      | 2560x1440@60Hz | 88.787                       | 59.951                    |
| UHD      | 3840x2160@60Hz | 135                          | 60                        |
| 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.

