

# Acer LCD Monitor

User's Guide

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Acer LCD Monitor User's Guide  
Original Issue: 06/2016

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Record the model number, serial number, purchase date and place of purchase information in the space provided below. The serial number and model number are recorded on the label affixed to your computer. All correspondence concerning your unit should include the serial number, model number and purchase information.

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#### Acer LCD Monitor User's Guide

Model number: \_\_\_\_\_

Serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

Place of purchase: \_\_\_\_\_

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# Special notes on LCD monitors

The following are normal with the LCD monitor and do not indicate a problem.

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the power switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has 99.99% or more effective pixels. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the power switch for a few hours.

## Information for your safety and comfort

### Safety instructions

Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.

### Cleaning your monitor

Please carefully follow these guidelines when cleaning the monitor:

- Always unplug the monitor before cleaning.
- Use a soft cloth to wipe the screen and cabinet front and sides.

### Connecting/disconnecting the device

Observe the following guidelines when connecting and disconnecting power from the LCD monitor:

- Make sure the monitor is attached to its base before connecting the power cord to the AC power outlet.
- Make sure both the LCD monitor and the computer are turned off before connecting any cable or unplugging the power cord.
- If the system has multiple sources of power, disconnect power from the system by unplugging all power cords from the power supplies.

## Accessibility

Be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment operator as possible. When you need to disconnect power from the equipment, be sure to unplug the power cord from the electrical outlet.

## Safe listening

To protect your hearing, follow these instructions.

- Gradually increase the volume until you can hear it clearly and comfortably and without distortion.
- After setting the volume level, do not increase it after your ears have adjusted.
- Limit the amount of time listening to music at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you can't hear people speaking near you.

## Warnings

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use it under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage internal devices.

## Using electrical power

- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local

power company.

- Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
- If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
- Do not overload a power outlet, strip or receptacle by plugging in too many devices. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip's input rating.
- This product's power cord is equipped with a three-wire grounded plug. The plug only fits in a grounded power outlet. Make sure the power outlet is properly grounded before inserting the power cord plug. Do not insert the plug into a non-grounded power outlet. Contact your electrician for details.



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**Warning! The grounding pin is a safety feature. Using a power outlet that is not properly grounded may result in electric shock and/or injury.**



.....

**Note:** The grounding pin also provides good protection from unexpected noise produced by other nearby electrical devices that may interfere with the performance of this product.

- Use the product only with the supplied power supply cord set. If you need to replace the power cord set, make sure that the new power cord meets the following requirements: detachable type, UL listed/CSA certified, type SPT-2, rated 7 A 125 V minimum, VDE approved or its equivalent, 4.5 meters (15 feet) maximum length.

## Product servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service

personnel when:

- the power cord or plug is damaged, cut or frayed
- liquid was spilled into the product
- the product was exposed to rain or water
- the product has been dropped or the case has been damaged
- the product exhibits a distinct change in performance, indicating a need for service
- the product does not operate normally after following the operating instructions



**Note:** Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

## Potentially explosive environments

Switch off your device in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

## Additional safety information

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

## IT Equipment Recycling Information

Acer is strongly committed to environmental protection and views recycling, in the form of salvaging and disposal of used equipment, as one of the company's top priorities in minimizing the burden placed on the environment.

We at Acer are very conscious of the environmental effects of our business and strive to identify and provide the best working procedures to reduce the environmental impact of our products.

For more information and help when recycling, please go to this website:

<http://www.acer-group.com/public/Sustainability>

Visit [www.acer-group.com](http://www.acer-group.com) for further information on the features and benefits of our other products.

## Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit <http://www.acer-group.com/public/Sustainability>



## LCD pixel statement

The LCD unit is produced with high-precision manufacturing techniques. Nevertheless, some pixels may occasionally misfire or appear as black or red dots. This has no effect on the recorded image and does not constitute a malfunction.

This product has been shipped enabled for power management:

- Activate display's Sleep mode within 5 minutes of user inactivity.
- Wake the monitor when it is in Active Off mode, move the mouse or press any keyboard key.

## Tips and information for comfortable use

Computer users may complain of eyestrain and headaches after prolonged use. Users are also at risk of physical injury after long hours of working in front of a computer. Long work periods, bad posture, poor work habits, stress, inadequate working conditions, personal health and other factors greatly increase the risk of physical injury.

Incorrect computer usage may lead to carpal tunnel syndrome, tendonitis, tenosynovitis or other musculoskeletal disorders. The following symptoms may appear in the hands, wrists, arms, shoulders, neck or back:

- numbness, or a burning or tingling sensation
- aching, soreness or tenderness

- pain, swelling or throbbing
- stiffness or tightness
- coldness or weakness

If you have these symptoms, or any other recurring or persistent discomfort and/or pain related to computer use, consult a physician immediately and inform your company's health and safety department.

The following section provides tips for more comfortable computer use.

## Finding your comfort zone

Find your comfort zone by adjusting the viewing angle of the monitor, using a footrest, or raising your sitting height to achieve maximum comfort. Observe the following tips:

- refrain from staying too long in one fixed posture
- avoid slouching forward and/or leaning backward
- stand up and walk around regularly to remove the strain on your leg muscles

## Taking care of your vision

Long viewing hours, wearing incorrect glasses or contact lenses, glare, excessive room lighting, poorly focused screens, very small typefaces and low-contrast displays could stress your eyes. The following sections provide suggestions on how to reduce eyestrain.

### Eyes

- Rest your eyes frequently.
- Give your eyes regular breaks by looking away from the monitor and focusing on a distant point.
- Blink frequently to keep your eyes from drying out.

### Display

- Keep your display clean.
- Keep your head at a higher level than the top edge of the display so your eyes point downward when looking at the middle of the display.
- Adjust the display brightness and/or contrast to a comfortable level for enhanced text readability and graphics clarity.
- Eliminate glare and reflections by:
  - placing your display in such a way that the side faces the window or any light source



- minimizing room light by using drapes, shades or blinds
- using a task light
- changing the display's viewing angle
- using a glare-reduction filter
- using a display visor, such as a piece of cardboard extended from the display's top front edge
- Avoid adjusting your display to an awkward viewing angle.
- Avoid looking at bright light sources, such as open windows, for extended periods of time.

## Developing good work habits

Develop the following work habits to make your computer use more relaxing and productive:

- Take short breaks regularly and often.
- Perform some stretching exercises.
- Breathe fresh air as often as possible.
- Exercise regularly and maintain a healthy body.



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## **Federal Communications Commission Declaration of Conformity**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



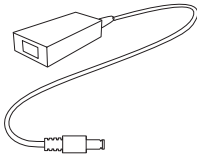
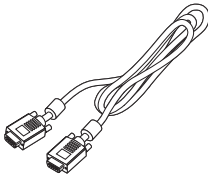
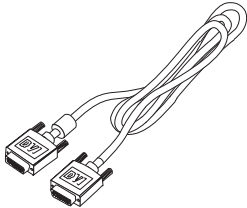

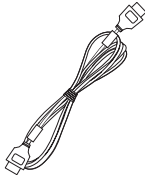
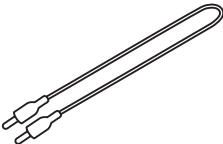
The following local Manufacturer /Importer is responsible for this declaration:

<b>Product:</b>	<b>LCD Monitor</b>
<b>Model Number:</b>	<b>ED322Q</b>
<b>SKU Number:</b>	<b>ED322Qxxxxxx; xxxxxx (“x” = 0~9, a ~ z, or A ~ Z)</b>
<b>Name of Responsible Party:</b>	<b>Acer America Corporation</b>
<b>Address of Responsible Party:</b>	<b>333 West San Carlos St. Suite 1500 San Jose, CA 95110 U. S. A.</b>
<b>Contact Person:</b>	<b>Acer Representative</b>
<b>Phone No.:</b>	<b>254-298-4000</b>
<b>Fax No.:</b>	<b>254-298-4147</b>

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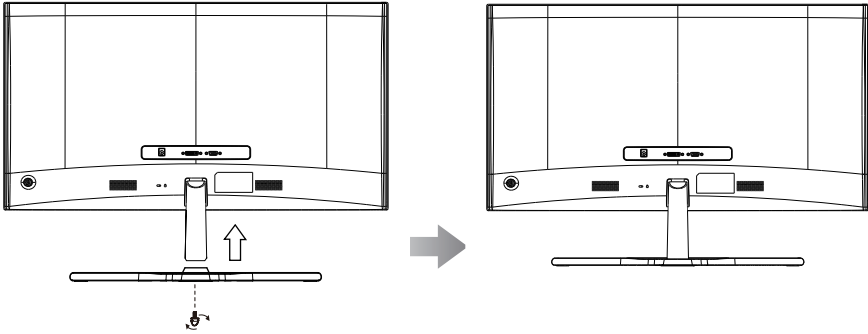
# Unpacking

Please check that the following items are present when you unpack the box, and save the packing materials in case you need to ship or transport the monitor in the future.

LCD monitor	Quick start guide	Adapter
		
D-sub cable (Optional)	DVI cable (Optional)	AC Power cord
		
HDMI cable (Option)	Audio cable (Optional)	
		

## Attaching/ Removing the base

Install: Align the base with the stand and push the base towards the top of the monitor, and then rotate the base clockwise. Tighten the screw clockwise.



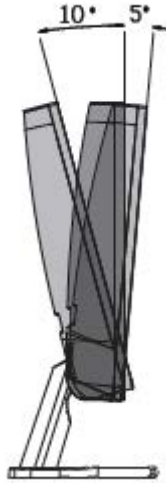
Remove: Press release bottom and reverse the steps to remove the base.

### Warning:

- Below actions are not allowed while moving and walking: high adjustment, tilt, swivel and pivot because of safety requirement.
- To prevent fragile panel broken, when moving and disassembling the product , it must pull the monitor head to the top at first and place the horizontal direction on the table.

## *Screen position adjustment*

To optimize the viewing position, you can adjust the monitor tilt by using both of your hands to hold the edges of the monitor as shown below. The monitor can be adjusted to 10 degrees up or 5 degrees down.



## Connecting the Power cord

- Check first to make sure that the power cord you use is the correct type required for your area.
- The monitor has a universal power supply that allows operation in either 100/120 V AC or 220/240 V AC voltage area. No user-adjustment is required.
- Plug one end of the power cord to the AC inlet, and plug the other end into an AC outlet.
- For units using 120 V AC:  
Use a UL-listed cord set, type SVT wire and plug rated 10 A/125 V.
- For units using 220/240 V AC:  
Use a cord set consisting of H05VV-F cord and plug rated 10 A/250 V. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

## Power saving

The monitor will be switched to “power saving” mode by the control signal from the display controller, as indicated by the amber-colored power LED.

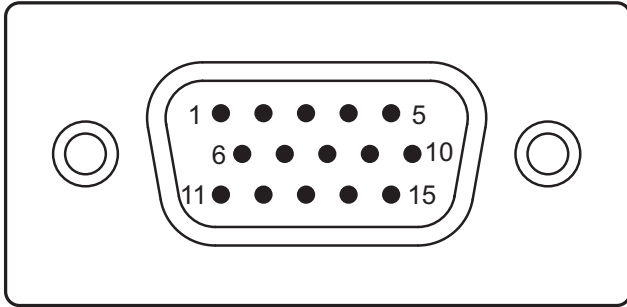
Mode	LED light
On	Blue
Power saving	Flicker

The power saving mode will be kept until a control signal has been detected or the keyboard or mouse is activated. The recovery time from “power saving” mode back to “on” is around 3 seconds.

## Display Data Channel (DDC)

To make installation easier, so long as your system supports the DDC protocol, the monitor is able to plug-and-play. The DDC is a communication protocol through which the monitor automatically informs the host system about its capabilities; for example, supported resolutions and corresponding timing. The monitor supports the DDC2B standard.

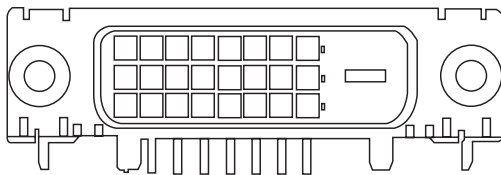
# Connector pin assignment



15-pin color display signal cable

PIN No.	Description	PIN No.	Description
1	Red	9	+5 V
2	Green	10	Logic ground
3	Blue	11	Monitor ground
4	Monitor ground	12	DDC-serial data
5	DDC-return	13	H-sync
6	R-ground	14	V-sync
7	G-ground	15	DDC-serial clock
8	B-ground		





24-pin color display signal cable

PIN No.	Description	PIN No.	Description
1	TMDS data 2-	13	NC
2	TMDS data 2+	14	+5 V power
3	TMDS data 2/4 shield	15	GND (return for +5 V hsync.vsync)
4	NC	16	Hot-plug detection
5	NC	17	TMDS data 0-
6	DDC clock	18	TMDS data 0+
7	DDC data	19	TMDS data 0/5 shield
8	NC	20	NC
9	TMDS data 1-	21	NC
10	TMDS data 1+	22	TMDS clock shield
11	TMDS data 1/3 shield	23	TMDS clock+
12	NC	24	DDC TMDS clock-

# Standard timing table

No	Mod	Resolution	Refresh Rate	
1	VGA	640x480	60	Hz
2		640x480	72	Hz
3	MAC	640x480	66.7	Hz
4	VESA	720x400	70	Hz
5	SVGA	800x600	56	Hz
6		800x600	60	Hz
7		800x600	72	Hz
8	XGA	1024x768	60	Hz
9		1024x768	70	Hz
10	VESA	1152x864	75	Hz
11		1280x960	60	Hz
12	SXGA	1280x1024	60	Hz
13	VESA	1280x720	60	Hz
14	WXGA	1280x800	60	Hz
15		1360x768	60	Hz
16	WXGA+	1440x900	60	Hz
17	WSXGA+	1680x1050	60	Hz
18	UXGA	1600x1200	60	Hz
19	VESA	1920x1080	60	Hz
20	VESA	1920x1080	75	Hz

# Installation

To install the monitor on your host system, please follow the steps below:

## Steps

### 1 Connect the video cable

- a Make sure both the monitor and computer are switched off.
- b Connect the VGA video cable to the computer.
- c Connect the digital cable (only for dual-input models).
  - (1) Make sure both the monitor and computer are switched off.
  - (2) Connect one end of the 24-pin DVI cable to the back of the monitor and the other end to the computer's port.
  - (3) HDMI Cable (Optional, only HDMI-Input Model)
    - a. Make sure both the monitor and computer are powered-OFF.
    - b. Connect the HDMI cable to the computer.

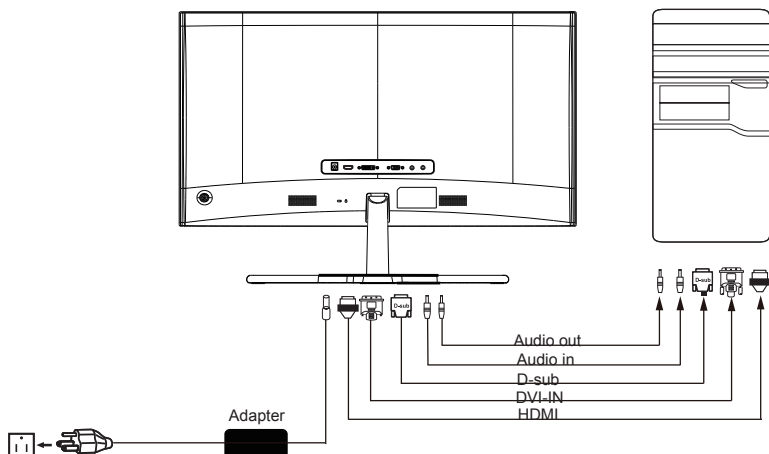
### 2 Connect the power cord

Connect the power cord to the monitor, then to a properly grounded AC outlet.

### 3 Turn on the monitor and computer

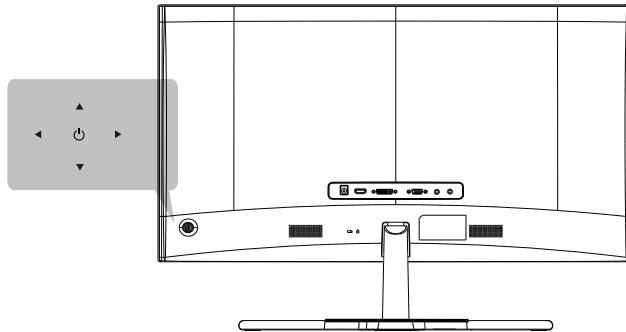
Turn on the monitor first, then the computer. This sequence is very important.

### 4 If the monitor does not function properly, please refer to the troubleshooting section to diagnose the problem.



In order to prevent damage to the monitor, do not lift the monitor by its base.

# Users controls



## External controls

Function key



- a. Monitor power off status Press to switch power on. In the normal display, anytime to Press more than 5 seconds switch to turn off the power.
  - b. Blue indicates power on. Blue flicker indicates standby/power saving mode. No light display indicates Power off.
  - c. Press to any directions switch key to display First Menu. Press again to enter next function in the First Menu.
  - d. The single toggle button on the backside of the Display bezel operates like a joystick. To move the cursor, simply toggle the button in four directions. Press the button to select desired option. In Main Menu , Bright green indicates operable, Dark grey indicates inoperable.
-

## Using the Shortcut Menu



**Note:** The following content is for general reference only. Actual product specifications may vary.

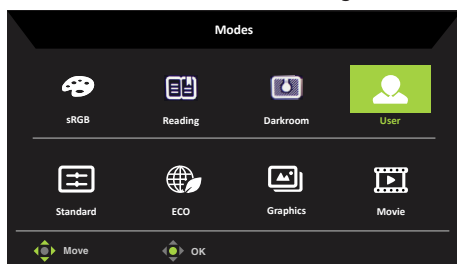
The OSD (onscreen display) can be used to adjust the settings of your LCD monitor. Press the MENU key to open the OSD. You can use the OSD to adjust the picture quality and general settings. For advanced settings, please refer to following page:

### Main page

	<ol style="list-style-type: none"> <li>1. Menu OSD</li> <li>2. Hot Key1 (Modes, Brightness, Gamma, Contrast, Blue Light, Over Drive)</li> <li>3. Hot Key2 (Modes, Brightness, Gamma, Contrast, Blue Light, Over Drive)</li> <li>4. Input selection</li> </ol>
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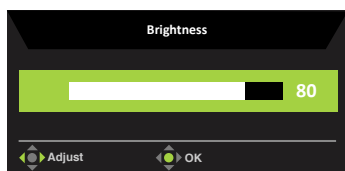
### Hot key1 (default: Standard mode)

To choose scenario mode(sRGB, Reading, Darkroom, User, Standard, ECO, Graphics, Movie)



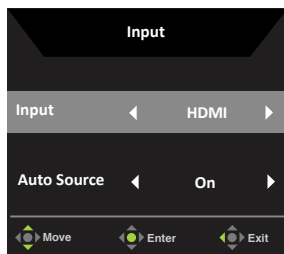
### Hot key2 (default: Brightness)

Open the Brightness control and select your preferred brightness setting . When you are done, press the joystick to quit current page and store.



## Selecting the input

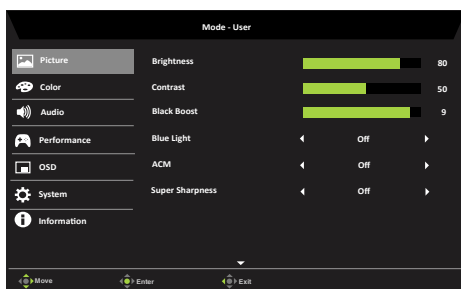
Open the Input control and select HDMI, DP, DVI or Auto Source. When you are done, press the joystick to exit current page and store.



## The Function page

Open the Function page to adjust the functions, settings which you want using the arrows. When you are done, toggle the joystick to the left or right to go back one level.

### Picture



1. Press the MENU key to open the OSD.
2. Toggle the joystick to the up or down to select Picture from the OSD. Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.
3. Toggle to the left or right to adjust the sliding scales.
4. The Picture menu can be used to adjust the Brightness, Contrast, Black Boost, Blue Light, ACM, Super Sharpness.

- Brightness: Adjust the brightness from 0 to 100.



**Note:** Adjusts the balance between light and dark shades.

- Contrast: Adjust the contrast from 0 to 100.



**Note:** Sets the degree of difference between light and dark areas.

- Black Boost: Adjust the black level from 0 to 10. Enhances shadows by increasing the brightness without changing lighter shades.

- Blue Light: Filters out blue light to protect your eyes by adjusting how much blue light is shown -- 80%, 70%, 60%, or 50%.

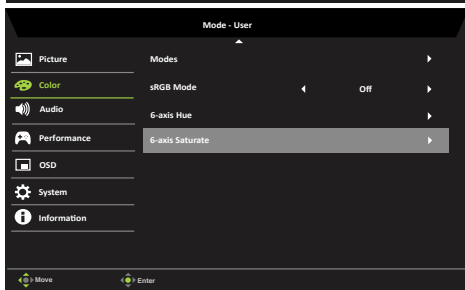
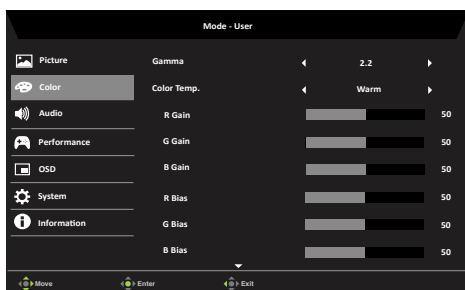


**Note:** Higher values allow more blue light through. For the best protection select a lower value.

- ACM: Turn ACM on or off. The default is off.

- Super Sharpness: Turn the Super Sharpness On or Off. Super Sharpness technology can simulate high-resolution images by boosting the pixel density of the original source to make images sharper and clearer.

## Color

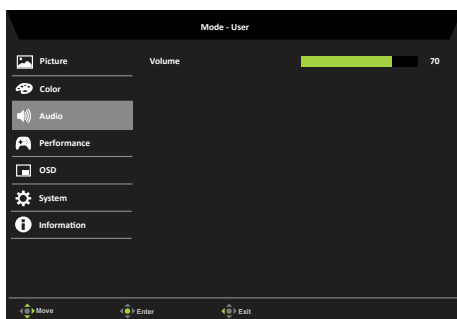


- Press the MENU key to open the OSD.
- Toggle the joystick to the up or down to select Color from the OSD. Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.
- Toggle to the left or right to adjust the sliding scales.
- Gamma mode allows you to adjust the luminance tone. The default value is 2.2 (standard

value for Windows).

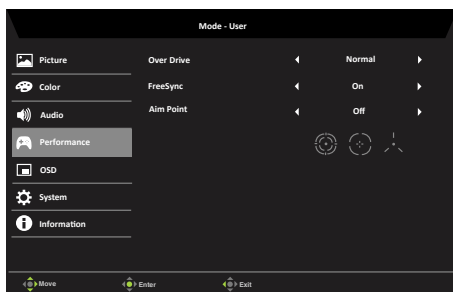
5. Color temperature: Default is warm. You can choose Cool, Normal, Warm, Bluelight or User.
6. Modes: further open the modes menu selection.
7. sRGB: Default is off. You can turn sRGB on or off to better color match with peripheral devices, such as printers and digital cameras.
8. 6-axis Hue: Adjust the red, green, blue, yellow, magenta and cyan hue.
9. 6-axis Saturate: Adjust the red, green, blue, yellow, magenta and cyan saturation.

## Audio



1. Press the MENU key to open the OSD.
2. Toggle the joystick to the up or down to select Audio from the OSD. Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.
3. Toggle to the left or right to adjust the sliding scales.
4. Volume: Adjust the volume

## Performance



1. Press the MENU key to open the OSD.
2. Toggle the joystick to the up or down to select Performance from the OSD. Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.
3. Toggle to the left or right to adjust the sliding scales.
4. Over Drive: Select Off, Normal, or Extreme.
5. Freesync: To control support Freesync or not, default is On.

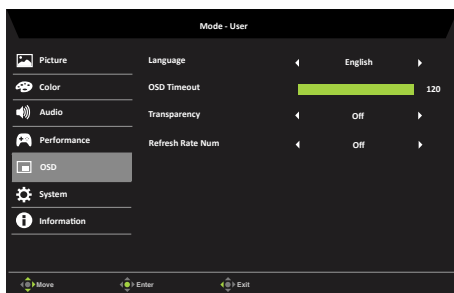




**Note:** Only in the Support FreeSync environment the control the FreeSync (On/ Off) effect, such as in NVIDIA or Intel graphic card, Non-FreeSync Environment no effect.

6. Aim point: Show an Aim point on the screen for shooting games.

## OSD

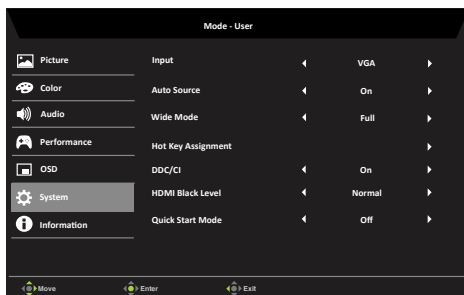


1. Press the MENU key to open the OSD.
2. Toggle the joystick to the up or down to select OSD from the OSD. Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.
3. Toggle to the left or right to adjust the sliding scales.
4. Language: Set the OSD menu language.
5. OSD timeout: Adjust the delay before turning off the OSD menu.
6. Transparency: Select the transparency when using performance mode. The transparency can be 0% (OFF), 20%, 40%, 60%, or 80%.
7. Refresh rate num: Display the panel's current refresh rate on the screen.



**Note:** If FreeSync set "On" you can see the V Frequency to changes in the OSD.

## System



1. Press the MENU key to open the OSD.
2. Toggle the joystick to the up or down to select System from the OSD. Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.

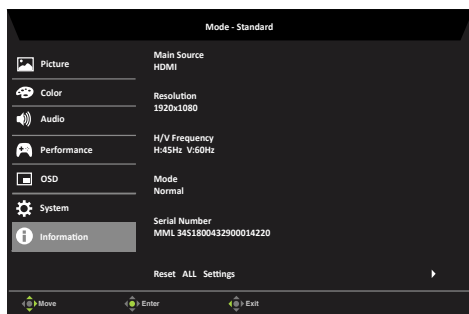
3. Toggle to the left or right to adjust the sliding scales.
4. Input: Select the source from HDMI,DP,DVI.
5. Wide mode: You can select which screen aspect you are using. The options are Full, Aspect.
6. Hotkey Assignment: Select the function of shortcut key 1 (Modes, Brightness, Volume, Gamma, Contrast, Blue Light, Over Drive) and shortcut keys 2 (Modes, Brightness, Volume, Gamma, Contrast, Blue Light, Over Drive)
7. DDC/CI: Allows the monitor settings to be set through the software on the PC.



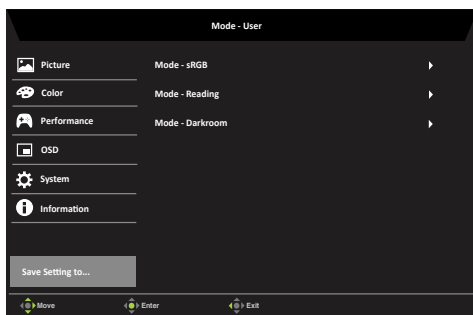
**Note:** DDC/CI, short for Display Data Channel/Command Interface, which allows monitor controls to be sent via software.

8. HDMI Black level setting.
9. Quick start mode: Select Off or On. Turn on to speed up boot speed.

## Information



## Save Setting to...(User mode only)



1. Press the MENU key to open the OSD.
2. Toggle the joystick to the up or down to select "Save Setting to..." from the OSD. Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.
3. Save Setting to some mode: There are three user-defined profiles available. When you

# Troubleshooting

Before sending your LCD monitor for servicing, please check the troubleshooting list below to see if you can self-diagnose the problem.

## VGA Mode

Problem	LED status	Remedy
No picture visible	Blue	Using the OSD menu, adjust brightness and contrast to maximum or reset to their default settings.
	Off	Check the power switch.  Check if the power cord is properly connected to the monitor.
	Flicker	Check if the video signal cable is properly connected at the back of monitor.  Check if the computer system is switched on and in power saving/standby mode.
Unstable picture	Blue	Check if the specification of graphics adapter and monitor is in compliance which may be causing the input signal frequency mismatch.
Abnormal picture	Image is missing, off-center, too large or too small on the screen.	Using the OSD menu, adjust focus, clock, H-position and V-position with non-standard signals.  Check the display setting on your system. In case of a missing image, please select another resolution or vertical refresh rate.  Wait for a few seconds after adjusting the size of the image before changing or disconnecting the signal cable or switching off the monitor.

## DVI mode

<b>Problem</b>	<b>LED status</b>	<b>Remedy</b>
No picture visible	Blue	Using the OSD menu, adjust brightness and contrast to maximum or reset to their default settings.
	Off	Check the power switch.  Check if the AC power cord is properly connected to the monitor.
	Flicker	Check if the video signal cable is properly connected at the back of monitor.  Check if the computer system is switched on and in power saving/standby mode.

## HDMI mode

<b>Problem</b>	<b>LED status</b>	<b>Remedy</b>
No picture visible	Blue	Using the OSD, adjust brightness and contrast to maximum or reset to their default settings.
	Off	Check the power switch.  Check if the AC power cord is properly connected to the monitor.
	Flicker	Check if the video signal cable is properly connected at the back of monitor.  Check that the computer system is switched on and in power saving/ standby mode.