Acer LCD Monitor

User's Guide

Copyright © 2017. Acer Incorporated.
All Rights Reserved.

Acer LCD Monitor User's Guide
Original Issue: 06/2017

Changes may be made periodically to the information in this publication without obligation to notify any person of such revisions or changes. Such changes will be incorporated in new editions of this manual or supplementary documents and publications. This company makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims the implied warranties of merchantability or fitness for a particular purpose.

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.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronically, mechanically, by photocopy, recording or otherwise, without the prior written permission of Acer Incorporated.

Acer LCD Monitor User's Guide

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

Acer and the Acer logo are registered trademarks of Acer Incorporated. Other companies' product names or trademarks are used herein for identification purposes only and belong to their respective companies.

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.

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 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.

Declaration of Conformity

We,

Acer Incorporated
8F, 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 221, Taiwan
Contact Person: Mr. RU Jan, e-mail:ru.jan@acer.com

And,

Acer Italy s.r.l
Via Lepetit, 40, 20020 Lainate (MI) Italy
Tel: +39-02-939-921 ,Fax: +39-02 9399-2913
www.acer.it

Declare under our own responsibility that the product:

Product:	**LCD Monitor Acer**
Trade Name:	**ED242QR**
Model Number:	**ED242QR xxxxxx;**
SKU Number:	("x" = 0~9, a ~ z, A ~ Z, or blank)

We, Acer Incorporated, hereby declare under our sole responsibility that the product described above is in conformity with the relevant Union harmonization legislations as below Directive and following harmonized standards and/or other relevant standards have been applied:

☒ **EMC Directive: 2014/30/EU**

☒ EN 55022:2010+AC:2011 Class B	☒ EN 55024:2010
☒ EN 61000-3-2:2006+A2:2009 Class D	☒ EN 61000-3-3:2013

☒ **LVD Directive: 2014/35/EU**

☒ EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013

☒ **RoHS Directive: 2011/65/EU**

☒ EN 50581:2012

☒ **ErP Directive: 2009/125/EC**

☒ Regulation (EC) No. 1275/ 2008; EN 50564:2011

Year to begin affixing CE marking: 2016.

RU Jan / Sr. Manager
Acer Incorporated (Taipei, Taiwan)

Jan.24, 2017
Date

Acer America Corporation
333 West San Carlos St., San Jose
Suite 1500
CA 95110, U. S. A.
Tel : 254-298-4000
Fax : 254-298-4147
www.acer.com

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.

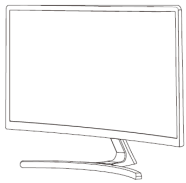
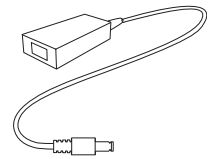
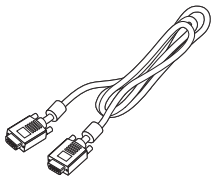
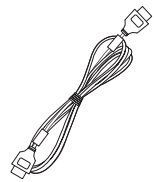
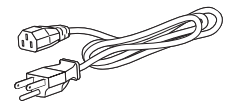
The following local Manufacturer /Importer is responsible for this declaration:

Product:	**LCD Monitor**
Model Number:	**ED242QR**
SKU Number:	**ED242QR xxxxxx; xxxxxx ("x" = 0~9, a ~ z, or A ~ Z)**
Name of Responsible Party:	**Acer America Corporation**
Address of Responsible Party:	**333 West San Carlos St. Suite 1500 San Jose, CA 95110 U. S. A.**
Contact Person:	**Acer Representative**
Phone No.:	**254-298-4000**
Fax No.:	**254-298-4147**

Special notes on LCD monitors iii
Information for your safety and comfort iii
Safety instructions iii
Cleaning your monitor iii
Connecting/disconnecting the device iii
Accessibility iv
Safe listening iv
Warnings iv
Using electrical power iv
Product servicing v
Potentially explosive environments vi
Additional safety information vi
IT Equipment Recycling Information vi
Disposal instructions vii
LCD pixel statement vii
Tips and information for comfortable use vii
Declaration of Conformity
Federal Communications Commission
Declaration of Conformity
Unpacking 1
Attaching/ Removing the base 2
Screen position adjustment 3
Connecting the Power cord 4
Power saving 4
Display Data Channel (DDC) 4
Connector pin assignment 5
Standard timing table 7
Installation 8
Users controls 9
Adjusting the OSD settings 10
The Function page 12
Trouble shooting 18

Unpacking

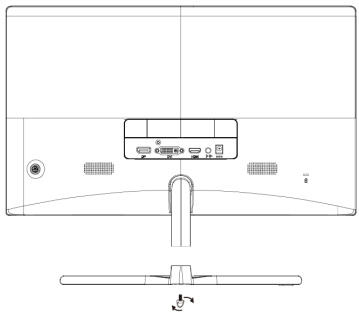
Please check that the following items are present when you unpack the box, and save the packing materials in case you need to ship or transport the monitor in the future.

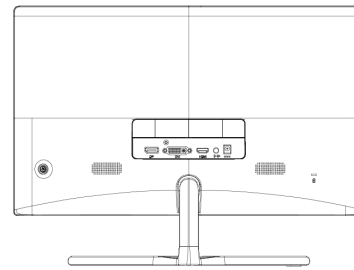
LCD monitor	Quick start guide	Adapter
		
VGA cable (Optional)	HDMI cable (Optional)	AC Power cord
		

English

Attaching/ Removing the base

1. Take out the monitor, stand and base from the package, put them on smooth surface.
2. Align the stand for the back cover portion of the monitor, insert the back cover, ensure that the monitor and.standconnection is stable, do not shake.
3. Align base and stand, insert the base to stand, rotating hand screw until tightening, fix the base.



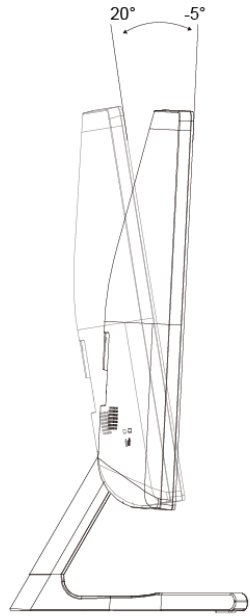


1. Attach the base to the monitor, as illustrated.

2. Ensure that the base is screwed tight onto the monitor stand arm.

Screen position adjustment

To optimize the viewving 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 20 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.

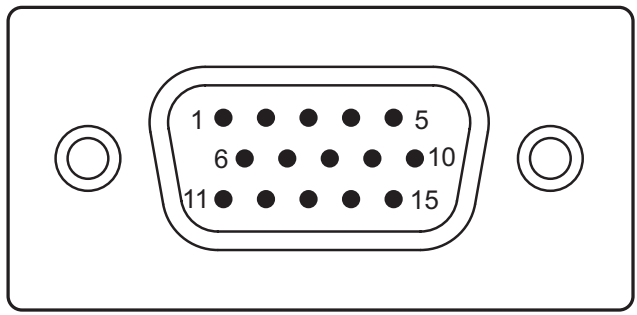
Mode	LED light
On	Blue
Power saving	Flicker

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)

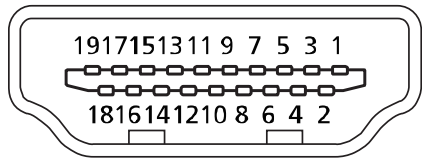
To make installation easier, so long as your system supports the DDC protocol, the monitor is able to plug-and-play. The DDC is a communication protocol through which the monitor automatically informs the host system about its capabilities; for example, supported resolutions and corresponding timing.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



19-Pin Color Display Signal Cable*

PIN	Meaning	PIN	Meaning
1.	TMDS Data2+	10.	TMDS Clock+
2.	TMDS Data2 Shield	11.	TMDS Clock Shield
3.	TMDS Data2-	12.	TMDS Clock-
4.	TMDS Data1+	13.	CEC
5.	TMDS Data1 Shield	14.	Reserved (N.C. on device)
6.	TMDS Data1-	15.	SCL
7.	TMDS Data0+	16.	SDA
8.	TMDS Data0 Shield	17.	DDC/CEC Ground
9.	TMDS Data0-	18.	+5V Power
		19.	Hot Plug Detect

* only for certain models

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

English

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-ON .

b.Connect the HDMI cable to the computer. .

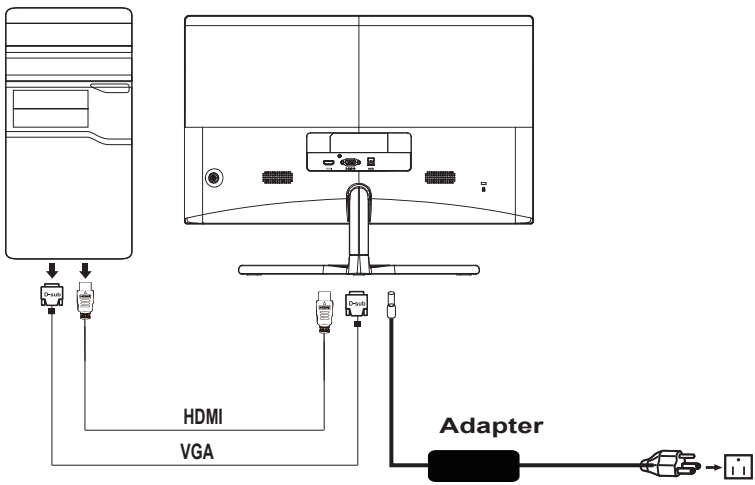
2 Connect the power cord

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

3 Turn on the monitor and computer

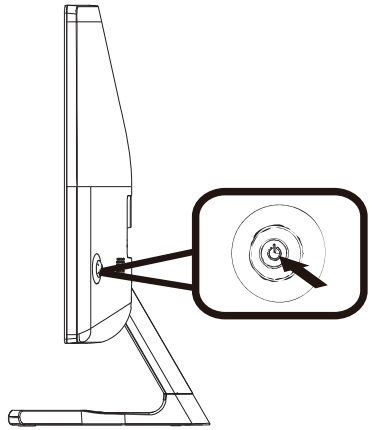
Turn on the monitor first, then the computer. This sequence is very important.

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



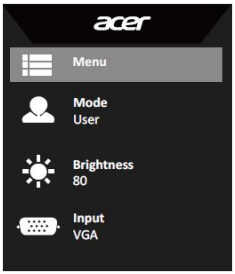
Function key	a. Monitor power off status Press to switch power on. In the normal display, anytime to Press more than 5 seconds switch to turn off the power. b. Blue indicates power on. Blue flicker indicates standby/power saving mode. No light display indicates Power off. c. Press to any directions switch 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 desires option. In Main Menu The Green indicates operable, Grey indicates inoperable.

Adjusting the OSD settings

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

The OSD (on-screen display) can be used for adjusting the settings of your LCD Monitor. Press the MENU key to open the OSD. You can use the OSD to adjust the picture quality, OSD position and general settings. For advanced settings, please refer to following page:

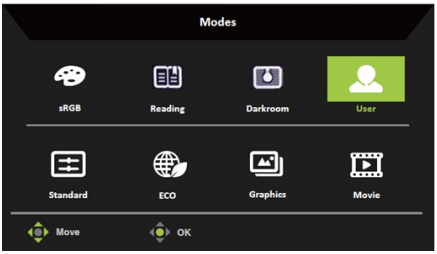
Main Page



1. Menu OSD
2. Mode
3. Brightness
4. Input selection

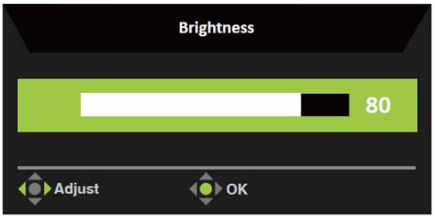
Turn Mode on or off

Open the Mode control and turn Mode on or off using the adjustment arrows (OFF/ON), and select which profile to use (Please see the OSD section for more information).



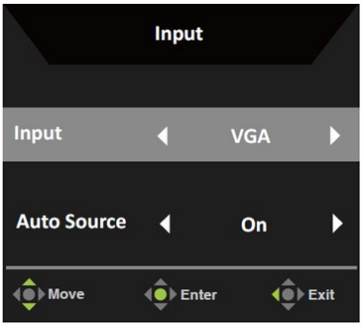
Adjusting the Brightness setting

Open the Brightness control and select the brightness setting using the arrows. When you are done, use ↩ to go back one level.



Selecting the Input

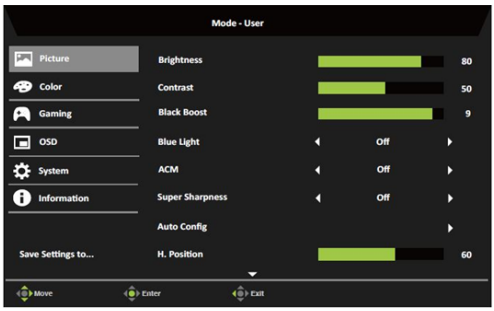
Open the input control and select HDMI, DisplayPort, or DVI. When you are done, use ↩ to go back one level.



The Function page

Open the Function page to select Picture, Color, Audio, Gaming, OSD or System functions, and adjust the settings which you want using the arrows. You can also view your monitor's system information from this page. When you are done, use ↰ to go back one level.

Adjusting the Picture



1. Press the MENU key to bring up 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, and Super Sharpness.
5. Brightness: Adjust the brightness from 0 to 100.

Note: Adjusts the balance between light and dark shades.

6. Contrast: adjust the contrast from 0 to 100.

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

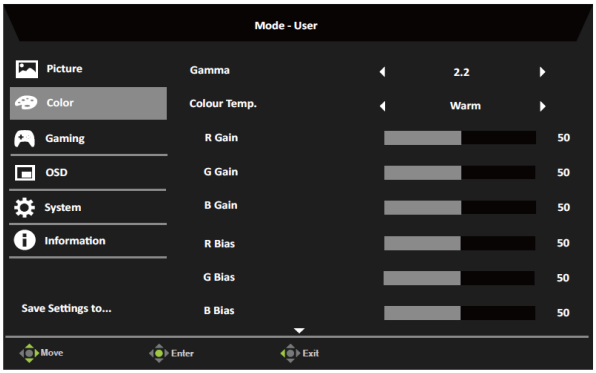
7. Black Boost: This boosts the amplitude of the dark color levels of the display– blacks will be less black. The higher the level, the higher the boost.

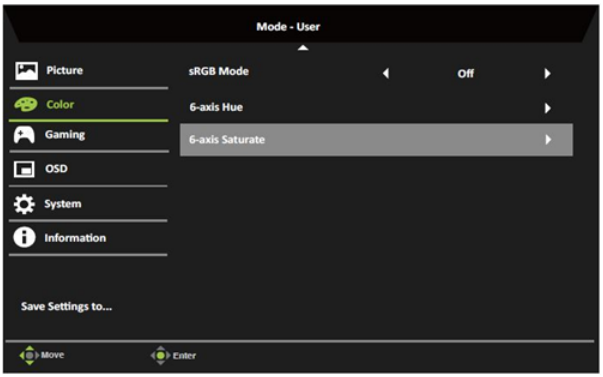
8. Blue Light: filter out blue light by adjusting different Blue Light showing ratio - 80%, 70%, 60%, 50%.

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

9. ACM: Turn ACM on or off. The default is off.
10. Super Sharpness technology can simulate high-resolution images by boosting the pixel density of the original source. It can make images sharper and clear.

Adjusting the Color

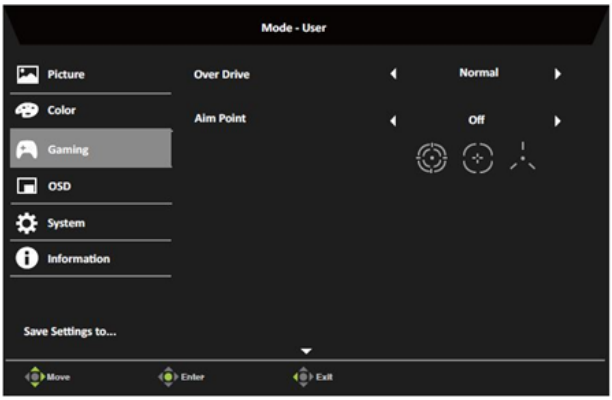




1. Press the MENU key to open the OSD.
2. Toggle the joystick to the up or down to select Color from the OSD. Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.
3. Toggle to the left or right to adjust the sliding scales.

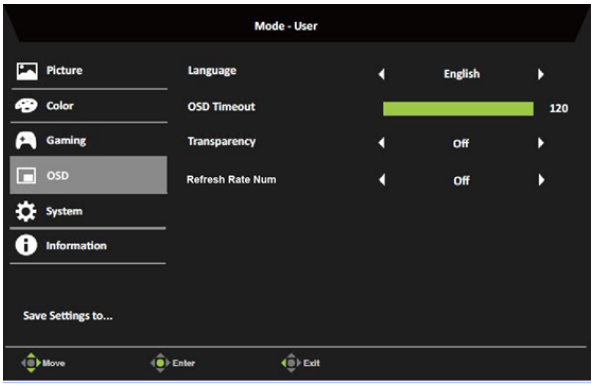
4. Gamma mode allows you to adjust the luminance tone. The default value is 2.2 (standard value for Windows).
5. Color temperature: Default is warm. You can choose Cool, Warm, Bluelight or User.
6. sRGB mode is for getting better color matching representation with the peripheral device, such as DSCs or printers.
7. 6-axis Hue: Adjust the red, green, blue, yellow, magenta and cyan hue.
8. 6-axis Saturate: Adjust the red, green, blue, yellow, magenta and cyan saturation.

Adjusting the Gaming



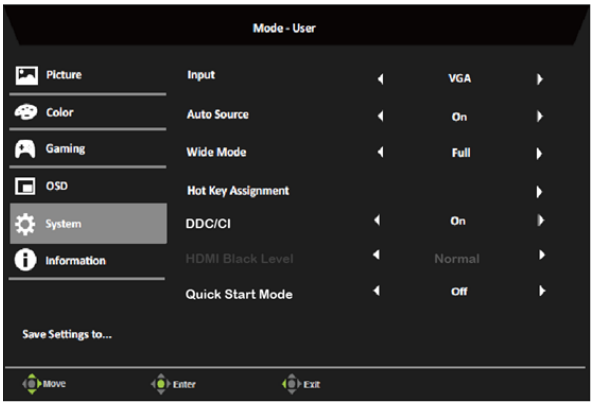
1. Press the MENU key to open the OSD.
2. Toggle the joystick to the up or down to select Gaming from the OSD.Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.
3. Toggle to the left or right to adjust the sliding scales.
4. OD: Select Off, Normal, or Extreme.， default： Normal
   Normal：8ms； Extreme：4ms ； OFF：Panel OD
5. Aim point: Show an Aim point on the screen for shooting games.

Adjusting the 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 the off the OSD menu.
6. Transparency: Select the transparency when using gaming 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.

Adjusting the System

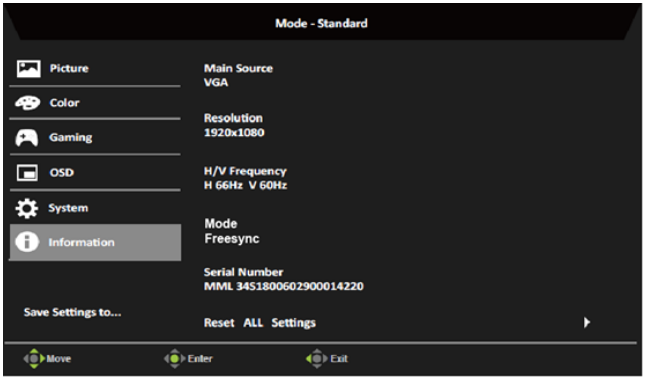


1. The System menu can be used to select settings such as Input, Wide Mode, and Power LED.
2. Press the MENU key to open the OSD.
3. Toggle the joystick to the up or down to select System from the OSD. Then toggle to the right to navigate to the element you wish to adjust and press the joystick to enter it.
4. Toggle to the left or right to adjust the sliding scales.
5. Input: Select the source from VGA or HDMI.
6. Auto Source: Automatically searches for available input sources.
7. Wide mode: You can select which screen aspect you are using. The options are Full, Aspect.
8. Hotkey Assigment： Select the function of shortcut key 1(Modes, Brightness, Input,
   Gamma, Contrast, Blue Light, Over Drive) and shortcut keys 2 (Modes, Brightness,
   Input, Gamma, Contrast, Blue Light, Over Drive)
9. DDC/CI: Allows the monitor settings to be set through the software on the PC.

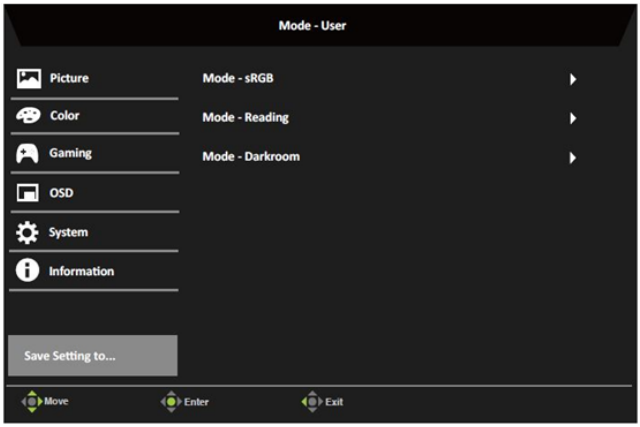
Note: DDC/CI, short for Display Data Channel/Command Interface, which allows monitor controls to be sent via software.

10. HDMI Black Level: You can select the level of blackness under HDMI source. The options are Normal and Low.
11. Quick Start Mode: Enable monitor rapidly.

Product 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. Reset: Resets all settings to the factory defaults.
4. Save Setting to Game mode: There are three user-defined profiles available. When you have decided what settings suit you, save them and system will be able to recall the settings in the future when you turn on gaming mode .

TROUBLESHOOTING

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

(HDMI/DP/DVI Mode)

Problems	Current Status	Remedy
No Picture	LED ON	● Using OSD, adjust brightness and contrast to maximum or reset to their default settings.
	LED OFF	● Check the power switch.
		● Check if AC power cord is properly connected to the monitor.
	LED Flicker	● Check if video signal cable is properly connected at the back of monitor.
		● Check if the power of computer system is ON.