

# Acer LCD Monitor

## User's Guide

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Acer LCD Monitor User's Guide  
Original Issue: 04/2016

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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.



.....  
**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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## Declaration of Conformity

We,

**Acer Incorporated**

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And,

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www.acer.it

**Product:**

**LCD Monitor**

**Trade Name:**

**ACER**

**Model Number:**

**VA221Q**

**SKU Number:**

**VA221Q xxxxxx;**

**("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)**

**29/04/2016**  
**Date**



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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:

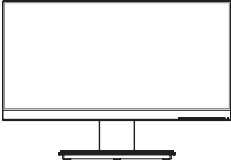
<b>Product:</b>	<b>LCD Monitor</b>
<b>Model Number:</b>	<b>VA221Q</b>
<b>SKU Number:</b>	<b>VA221Q xxxxxx</b> <b>("x" = 0~9, a ~ z, or A ~ Z)</b>
<b>Name of Responsible Party:</b>	<b>Acer America Corporation</b>
<b>Address of Responsible Party:</b>	<b>333 West San Carlos St. Suite 1500 San Jose, CA 95110 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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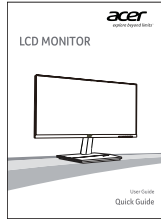
# Unpacking

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.

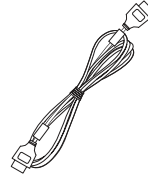
LCD monitor



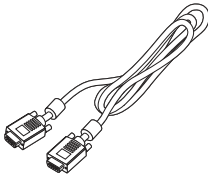
Quick start guide



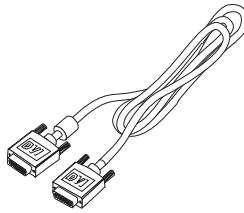
HDMI cable (Option)



VGA cable



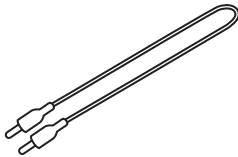
DVI cable (Optional)



AC Power cord

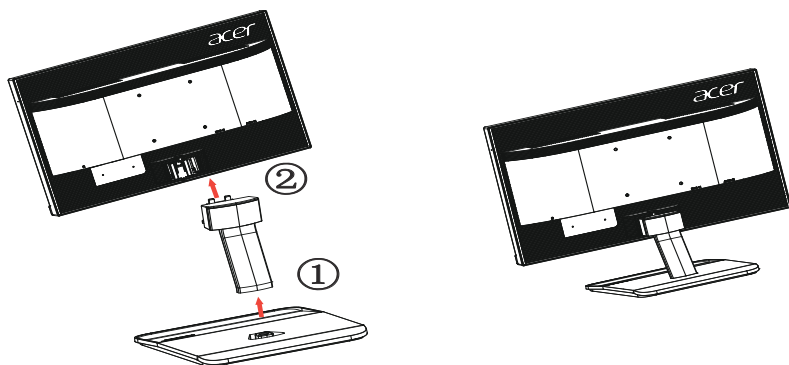


Audio cable (Optional)



## 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.

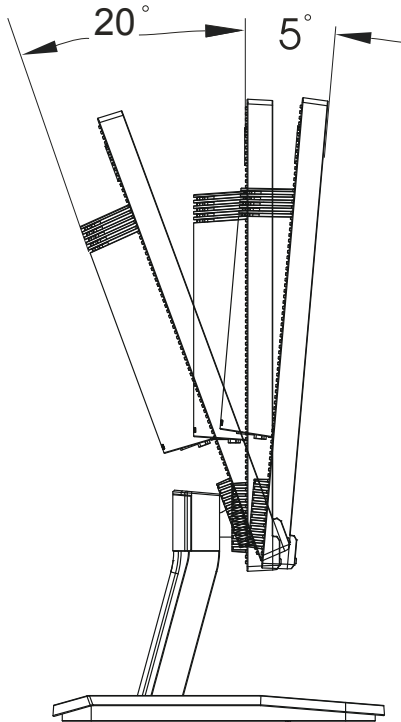
### Warning:

- Actions below 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 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	Amber

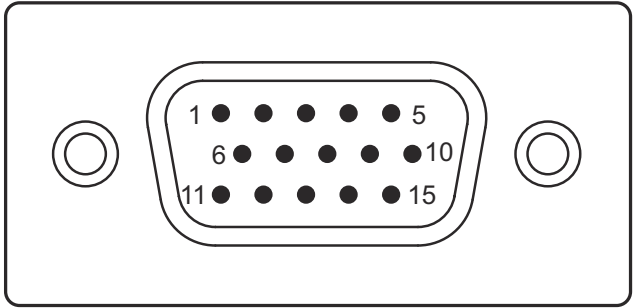
The power saving mode will be kept until a control signal has been detected or the keyboard or mouse is activated. The recovery time from “power saving” mode back to “on” is around 3 seconds.

## 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.

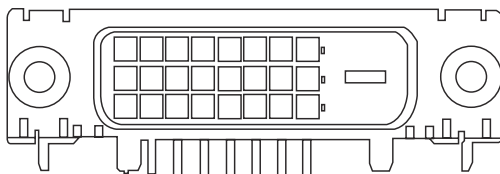


# Connector pin assignment



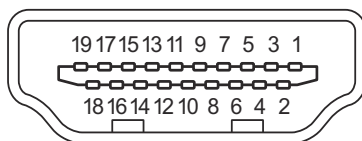
15-pin color display signal cable

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-



19-pin color display signal cable

PIN No.	Description	PIN No.	Description
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	Reserved (N.C. on device)
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

# Standard timing table

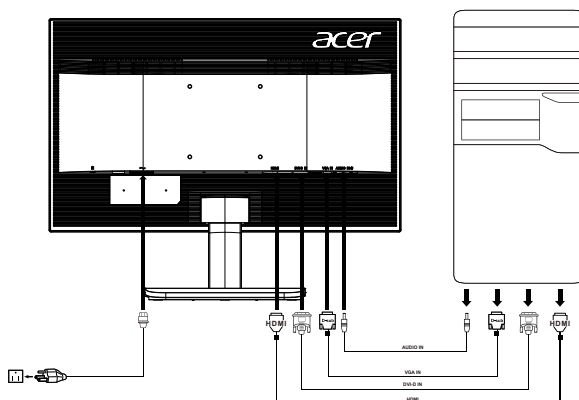
Mode		Resolution		
1	VGA	640×480	60	Hz
2	MAC	640×480	66.66	Hz
3	VESA	720×400	70	Hz
4	SVGA	800×600	56	Hz
5	SVGA	800×600	60	Hz
6	XGA	1024×768	60	Hz
7	XGA	1024×768	70	Hz
8	VESA	1152×864	75	Hz
9	SXGA	1280×1024	60	Hz
10	VESA	1280×720	60	Hz
11	WXGA	1280×800	60	Hz
12	WXGA+	1440×900	60	Hz
13	WXGA+	1680×1050	60	Hz
14	UXGA	1920×1080	60	Hz

# Installation

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

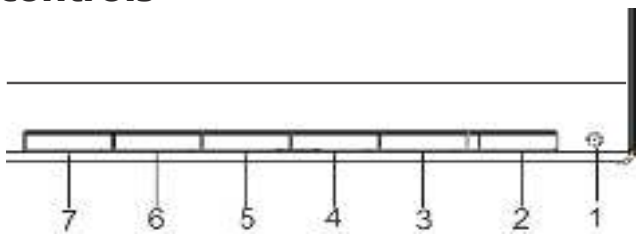
## Steps

- 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 DVI Cable (Optional, only Dual-Input Model)to the computer.
  - d Connect the HDMI Cable (Optional, only HDMI-Input Model)to the computer.
  - e Connect the audio cable (Optional, only Audio-input Model)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



Power Switch / Power LED:

To turn the monitor ON or OFF.  
Lights up to indicate the power is turned ON.

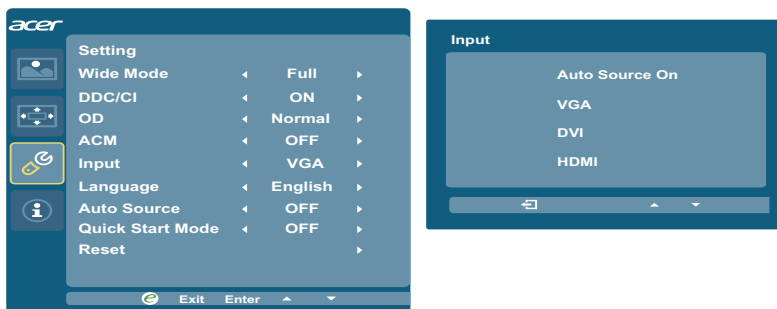
## Using the Shortcut Menu



Press the function button to open the shortcut menu. The shortcut menu lets you quickly select the most commonly accessed settings.

Icon	Item	Description
	Empowering	Press the Empowering Key to open the Acer eColor Management and access the scenario modes.
	Auto	Press the <b>Auto</b> button to activate the Auto Adjustment function and the monitor will automatically optimize the display position, focus, and clock of your display. (For VGA mode only)
	Menu	Press the <b>Menu</b> button to activate the OSD menu.
	Volume	Press the <b>Volume</b> button to adjust volume. (Optional, only Audio-Input Model)
	Input	Press the <b>Input</b> button to select from different video sources that may be connected to your monitor. (Optional, only Dual-Input Model or HDMI-Input Model) When Auto Source is off, press the "Input" Hot key to display the input source Menu. User can switch input source, or to control the "Auto Source" function.

# Input Source Selection



1. The default of Auto Source is "On", it can support auto search for signal source in order.
2. When Auto Source is Off, press the "Input" Hot key to display the input source Menu.

User can switch input source, or to control the "Auto Source" function.

## Acer eColor Management








### Operation instructions

- Step 1: Press "F2" Key to open the Acer eColor Management OSD and access the scenario modes
- Step 2: Press "◀" or "▶" to select the mode Features and Benefits
- Step 3: Press "AUTO" Key to confirm the mode and exit the eColor menu.

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## Features and benefits

Main Menu icon	Sub Menu icon	Sub Menu item	Description
	N/A	User mode	User defined. Settings can be fine-tuned to suit any situation
	N/A	ECO mode	Adjusts the settings to reduce power consumption.
	N/A	Standard mode	Default Setting. Reflects native display capability
	N/A	Graphic mode	Enhances colors and emphasize fine detail. Pictures and photographs appear in vibrant colors with sharp detail.
	N/A	Movie mode	Displays scenes in clearest detail. Presents great visuals, even in unsuitably lit environments.

# Adjusting the OSD settings



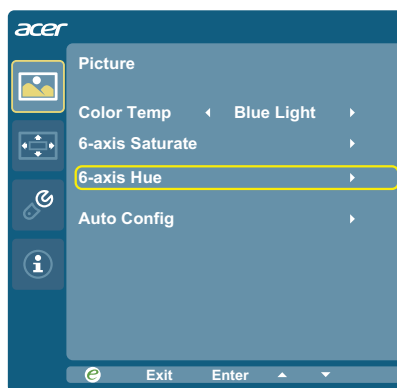
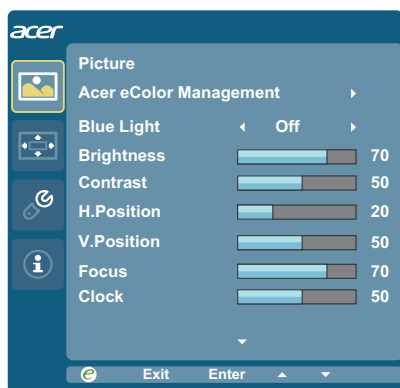
**Note:** The following content is for general reference only. Actual product specifications may vary.


Your LCD monitor is equipped with an on-screen display (OSD) menu for making various adjustments and settings.

Press the **Menu** button to open the OSD menu. You can use the OSD menu to adjust the picture quality, OSD timeout, and general settings.

## Picture Menu

The Picture menu is used for adjusting the picture quality.



1. Press the MENU key to bring up the OSD.
2. Using the ◀/▶ keys, select  Picture from the OSD. Then navigate to the picture element you wish to adjust.
3. Use the ◀/▶ keys to adjust the sliding scales.
4. The following options are available in the Picture menu: Acer ecolor Management, Blue Light, Brightness, Contrast, H.Position, V.Position, Focus, Clock, Color Temp, 6-axis Saturate, 6-axis Hue and Auto Config.
5. 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.



6. Brightness: Adjust the brightness from 0 to 100.



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

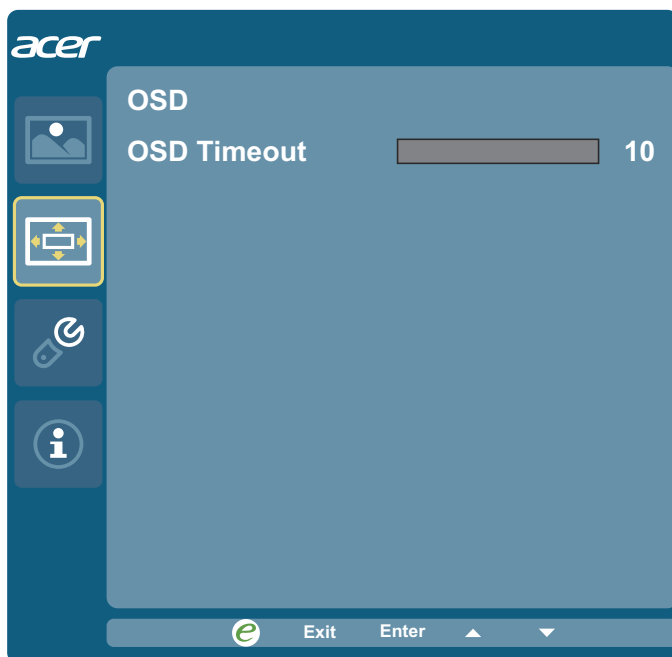
- 7 Contrast: Adjust the contrast from 0 to 100.




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

8. H.Position: adjust the horizontal position of the picture.  
9. V.Position: adjust the vertical position of the picture.  
10. Focus: adjust clk phase to ADC.  
11. Clock: adjust ADC Clock Fast Lock.  
12. Color Temp is for user to adjust the colour temperature from blue light, warm, cool and user. The default value is warm.  
13. 6-axis Saturate: Adjust saturation of red, green, blue, yellow, magenta and cyan.  
6-axis Hue: Adjust hue for red, green, blue, yellow, magenta and cyan.  
14. Auto Config: Press this button to activate the Auto Adjustment function. The Auto adjustment function is used to set the HPos, VPos, Clock and Focus. (Only available on VGA port.)


## Adjusting the OSD position



1. Press the MENU key to bring up the OSD.
2. Using the directional keys, select  OSD from the on screen display. Then navigate to the feature you wish to adjust.
3. Press the ◀ / ▶ button to adjust the OSD Timeout (10 ~ 120 seconds), the default is 10 seconds.

## Adjusting the setting



- 1 Press the **Menu** button to bring up the OSD menu.
- 2 Press the ◀ / ▶ button to select  **Setting** and press the **Menu** button to enter the **Setting** menu.  
The following options are available in the Setting menu: Wide Mode, DDC/CI, OD, ACM, Input, Language, Auto Source, Quick Start mode, and Reset.
- 3 Press the ◀ / ▶ button to scroll through the **Setting** options, and press the **Menu** button to enter its sub-menu.
- 4 Press the ◀ / ▶ button to adjust/select the setting and press the **Auto** button to confirm.
- 5 Wide mode: You can select which screen aspect you are using. The options are Full, Aspect, and 1:1.
- 6 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.

- 7 OD: Select Off, Normal, or Extreme.
- 8 ACM: Turn ACM on or off. The default is off.

- 9 Input: Select the source from VGA, DVI or HDMI.
- 10 Language: Set the OSD menu language.
- 11 Auto Source: The default is "On", can support auto search for signal source in order.
- 12 Quick start mode: Select Off or On. The default is "Off". Turn on to speed up boot speed.

## Product information



1. Press the MENU key to bring up the OSD.
2. Using the / keys, select  Information from the OSD. Then the basic information of LCD monitor will show up for current input.

# 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.
	Amber	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

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 AC power cord is properly connected to the monitor.
	Amber	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/DP Mode (Optional)

Problem	LED status	Remedy
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.
	Amber	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.