

Acer LCD Monitor

User's Guide

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Acer LCD Monitor User's Guide
Original Issue: 08/2016

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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.

"For displays with glossy bezels the user should consider the placement of the display as the bezel may cause disturbing reflections from surrounding light and bright surfaces."

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.

Power management statement should be as below.

- 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.

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



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New Taipei City 221, Taiwan

Declaration of Conformity

We,

Acer Incorporated

8F, 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 221, Taiwan

And,

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Via Lepetit, 40, 20020 Lainate (MI) Italy

Tel: +39-02-939-921 , Fax: +39-02 9399-2913

www.acer.it

Product:

LCD Monitor

Trade Name:

Acer

Model Number:

RT280K

SKU Number:

RT280K 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)

Sep,3,2016

Date



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San Jose, CA 95110, U. S. A.
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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:

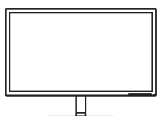
Product:	LCD Monitor
Model Number:	RT280K
SKU Number:	RT280K xxxxxx ; ("x" = 0~9, a ~ z, A ~ Z or Blank)
Name of Responsible Party:	Acer America Corporation
Address of Responsible Party:	333 West San Carlos St. Suite 1500 San Jose, CA 95110 U. S. A.
Contact Person:	Acer Representative
Phone No.:	254-298-4000
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
Additional safety information	vi
IT equipment recycling information	vi
Disposal instructions	vii
LCD pixel statement	vii
Tips and information for comfortable use	viii
Federal Communications Commission	
Declaration of Conformity	xi
Unpacking	1
Attaching/removing the base	2
Screen position adjustment	2
Connecting the power cord	5
Power saving	5
Display Data Channel (DDC)	5
Connector pin assignment	6
Standard timing table	8
Installation	9
User controls	10
How to adjust a setting	11
Acer eColor Management	12
User	13
Troubleshooting	15
HDMI mode	15
DVI mode	16
DP mode	16

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.

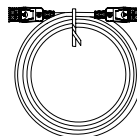
LCD monitor



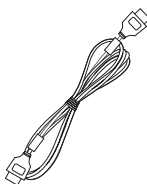
Quick start guide



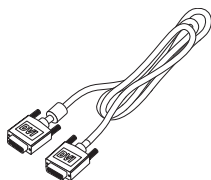
DP cable (Option)



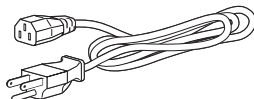
HDMI Cable
(Optional)



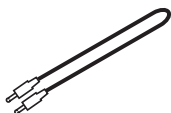
DVI cable (Option)



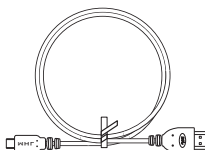
AC power cord



Audio Cable (Option)

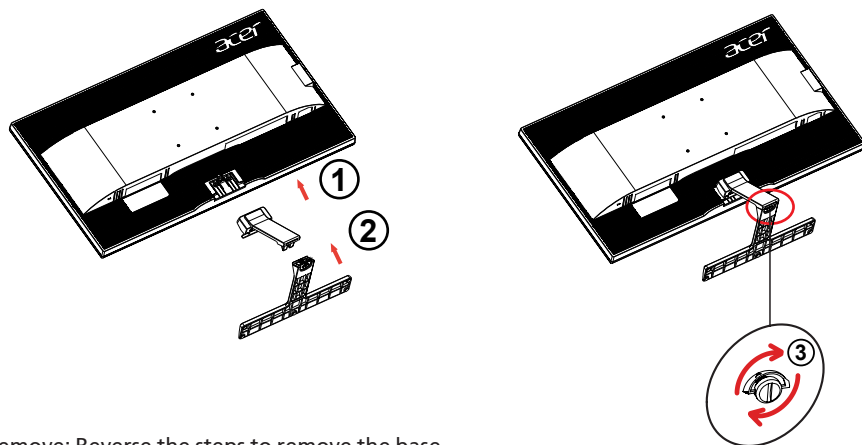


MHL cable
(Optional)



ATTACHING/REMOVING THE BASE

Install: Align the base with the stand and push the base towards the top of the monitor. Tighten the screw clock-wise.



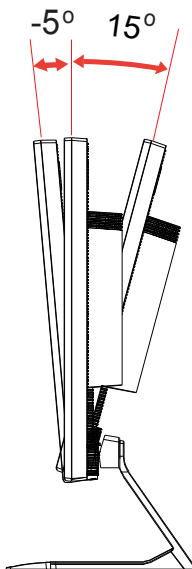
Remove: Reverse the steps to remove the base.

SCREEN POSITION ADJUSTMENT

In order to optimize the best viewing position, you can adjust the height/tilt/swivel/pivot of the monitor.

• Tilt

Please see the illustration below for an example of the tilt range. Only at the highest point can 15 degrees of recline be offered for the angle of elevation.



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

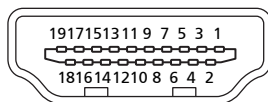
The power saving mode will be kept until a control signal has been detected or the keyboard or mouse is activated. The recovery time from "power saving" mode back to "on" is around 3 seconds.

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.

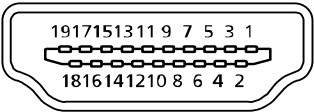
Connector pin assignment

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		

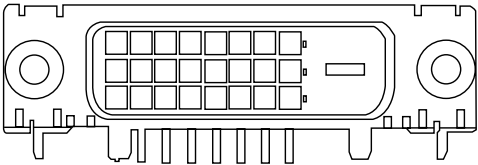
* only for certain models



20-pin color MHL cable*

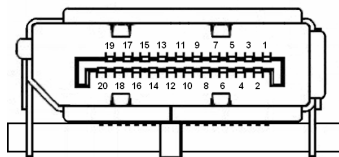
PIN No.	Description
7	MHL+
9	MHL-
18	VBUS
19	CBUS
5	GND
11	GND
17	GND

* only for MHL models



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-



20-pin color display signal cable*

PIN No.	Description	PIN No.	Description
1	Lane0(p)	11	GND
2	GND	12	Lane3(n)
3	Lane0(n)	13	Config1
4	Lane1(p)	14	Config2
5	GND	15	AUX_CH (n)
6	Lane1(n)	16	GND
7	Lane2(p)	17	AUX_CH (p)
8	GND	18	Hot Plug Detect
9	Lane3(n)	19	DP Power_Return
10	Lane3(p)	20	DP Power

* only for certain models

Standard timing table

Mode		Resolution
1	VGA	640x480@60Hz
2	VGA	640x480@72Hz
3	VGA	640x480@75Hz
4	MAC	640x480@66.66Hz
5	VESA	720x400@70Hz
6	SVGA	800x600@56Hz
7	SVGA	800x600@60Hz
8	SVGA	800x600@72Hz
9	SVGA	800x600@75Hz
10	MAC	832x624@74.55Hz
11	XGA	1024x768@60Hz
12	XGA	1024x768@70Hz
13	XGA	1024x768@75Hz
14	MAC	1152x870@75Hz
15	VESA	1152x864@75Hz
16	VESA	1280x960@60Hz
17	SXGA	1280x1024@60Hz
18	SXGA	1280x1024@75Hz
19	VESA	1280x720@60Hz
20	WXGA	1280x800@60Hz
21	WXGA+	1440x900@60Hz
22	WSXGA+	1680x1050@60Hz
23	FHD	1920x1080@60Hz
24	UHD	3840x2160@30Hz
25 *	UHD	3840x2160@60Hz

* DisplayPort and HDMI 2.0 only

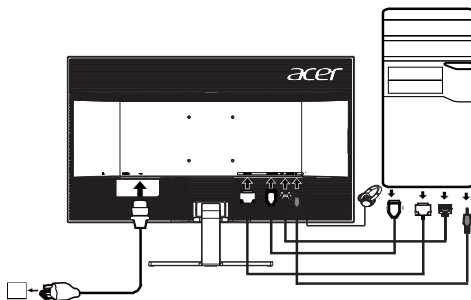
Installation

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 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.
 - c Connect the digital cable (only for DP models).
 - (1) Make sure both the monitor and computer are switched off.
 - (2) Connect one end of the 20-pin DP cable to the back of the monitor and the other end to the computer's port.
 - d HDMI Cable (Only HDMI or MHL Input Model)
 - a. Make sure both the monitor and computer are powered-OFF.
 - b. Connect the HDMI or MHL cable to the computer.
- 2 Connect the power cord
Connect the power cord to the monitor, then to a properly grounded AC outlet.
- 3 Optional: Connect the audio input socket(AUDIO IN) of the LCD monitor and the line-out port on the computer with the audio cable.
- 4 Turn on the monitor and computer
Turn on the monitor first, then the computer. This sequence is very important.
- 5 If the monitor does not function properly, please refer to the troubleshooting section to diagnose the problem.

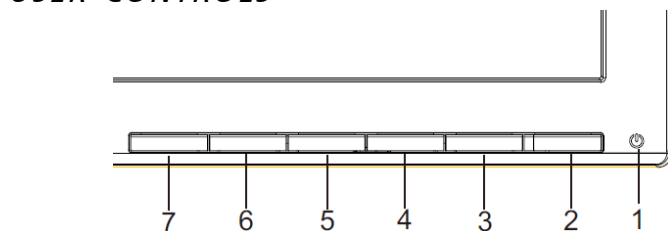
Note: Audio output is only for audio output model. Please check user manual for more instruction.



FreeSync (DP only):

It can allow a FreeSync supported graphics source to dynamically adjust display refresh rate based on typical content frame rates for power efficient, virtually stutter free and low-latency display update.

USER 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.



Empowering:

Press the Empowering Key to open the Acer eColor Management OSD and access the scenario modes.

PIP (picture in picture hotkey)

Use the PIP hotkey to activate the picture-in-picture function.

MENU OSD functions

Press this button to activate the OSD menu.

INPUT Input Key

Use Input key to select from different video sources that may be connected to your monitor.

(a) HDMI input (b) DVI input (c) DP input

As you cycle through the sources you will see the following messages on right top side of screen to indicate currently selected input source. It may take 1 or 2 seconds for the image to appear.

HDMI or DVI or DP

If either DVI input is selected, but the DVI cables are not connected, a floating dialog box indicates:

"No Cable Connect" or "No Signal"

Acer eColor Management



Operation instructions

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

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	Grahpic 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.

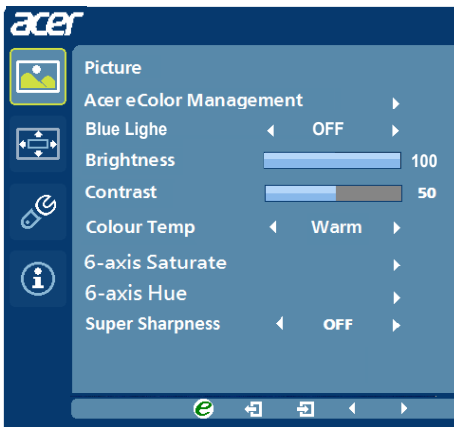
Adjusting the OSD settings



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

The OSD 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:

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 Picture menu can be used to adjust the Blue light Brightness, Contrast, Colour Temp, 6-axis Saturation, 6-axis Hue and other image-related qualities.
- 5 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.
- 6 Super Sharpness technology can simulate high-resolution images by boosting the pixel density of the original source. It can make the image more sharper and clear.

Adjusting the OSD position



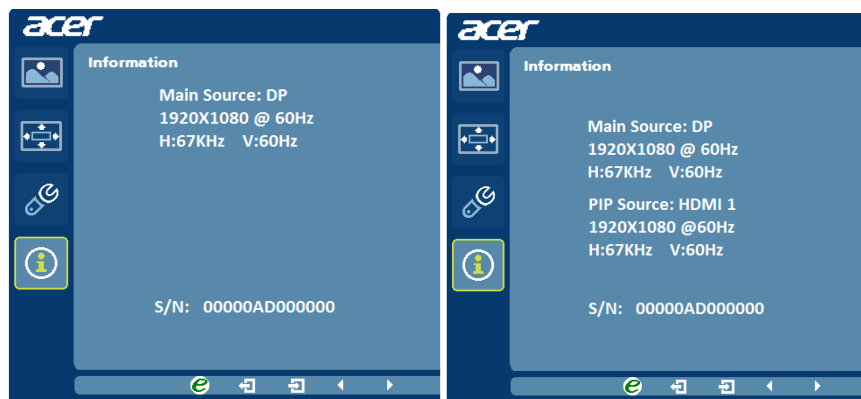
- 1 Press the MENU key to bring up the OSD.
- 2 Using the directional keys, select  OSD from the on screen display. Then navigate to the feature you wish to adjust.

Adjusting the setting



- 1 Press the MENU key to bring up the OSD.
- 2 Using the ◀/▶ keys, select  Setting from the OSD. Then navigate to the feature you wish to adjust.
- 3 The Setting menu can be used to adjust the screen Menu Language and other important settings.
- 4 Select PIP to adjust picture-in-picture settings. The PIP signal source needs to be selected manually.
- 5 When using PIP, "Wide mode", "ACM" will be enabled for the main source display.
- 6 "Wide mode" is not supported when using PBP function.

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.

DVI / HDMI mode

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.

DP mode

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.