Manuals+ — User Manuals Simplified.

AOPEN 16PM1Q LCD Monitor User Guide

Contents

AOPEN 16PM1Q LCD Monitor

AOPEN LCD Monitor – Product Information
Model Information:

- Model number: [insert model number]
- Serial number: [insert serial number]
- Date of purchase: [insert date of purchase]
- Place of purchase: [insert place of purchase]

Special Notes on LCD Monitors
The screen may recover slowly if the same image is displayed for hours. To resolve this, try changing the image or turning off the power switch for a few hours.

Safety Instructions

- Read and keep the user manual for future reference.
- Follow all warnings and instructions marked on the product.

Cleaning Your Monitor
Use a soft, lint-free cloth to clean the monitor. Avoid using liquid cleaners or abrasive materials.

Connecting/Disconnecting the Device
When connecting or disconnecting the device, ensure that the power cord is unplugged from the electrical outlet.

Safe Listening
Listen at a moderate volume to prevent hearing damage.

Product Servicing
Only adjust controls covered by the operating instructions. Improper adjustment of other controls may result in damage and require professional servicing.

Potentially Explosive Environments
Avoid using the monitor in potentially explosive environments to prevent accidents.

Additional Safety Information

Keep small parts out of reach of children.

Abandonment Guidance
Notes
Dispose of the product at designated collection points for used electrical and electronic equipment. Separate collection and recycling helps conserve natural resources and protect the environment.

LCD Pixel Statement

The LCD unit may contain pixels that appear as black or red dots. This does not affect the recorded image and is not a malfunction.

Tips and Information for Comfortable Use

- Find your comfort zone when using the monitor.
- Take care of your vision by taking regular breaks and adjusting display settings.
- Develop good work habits to maintain productivity and reduce strain.

Product Information for EU Energy
[Insert EU energy-related information]

CE Declaration of Conformity
[Insert CE Declaration of Conformity]

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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 currents 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.

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
- the 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.

Abandonment Guidance Notes
This symbol on the product or its packaging indicates that the product must not be disposed of with other household waste and that you are instead responsible for taking your used equipment to a designated collection point for used electrical and electronic equipment. Separate collection and recycling of used equipment help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

LCD pixel statement
The LCD unit is produced with high-precision manufacturing techniques. Nevertheless, some pixels may oc re or appear as black or red dots. This has no e does not constitute a malfunction.

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.

Product Information for EU Energy

EU Declaration of Conformity

We,
AOPEN Incorporated
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And,
Acer Italy s.r.l
Viale delle Industrie 1/A, 20044 Arese (MI), Italy. Tel: +39-02-939-921 ,Fax: +39-02 9399-2913 www.acer.it

- Product: LCD Monitor
- Trade Name: AOPEN
- Model Number: 16PM1Q
- SKU Number: 16PM1Q xxxxxx;
- ("x" = 0~9, a ~ z, A ~ Z, or blank)

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

EN 55032:2015+A11:2020	EN 55035:2017+A11:2020
EN IEC 61000-3-2:2019+A1:2021	EN 61000-3-3:2013+A1:2019

RU Jan / Sr. Manager
AOPEN Incorporated (Taipei City)

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:
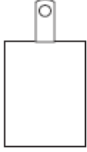
- Product: LCD Monitor
- Model Number: 16PM1Q
- SKU Number: 16PM1Q X;
- ("x" = 0~9, a ~ z, A ~ Z or Blank)

Name of Responsible Party: AOPEN 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

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

| PD charger | Type-C power cable (1.5m) |

| Type-C date cable (1m) | HDMI cable |

| micro-USB cable | Leather case |

Attaching the monitor to the base

1. Remove the monitor leather case from the packaging and place it on a stable and level workspace.
2. Open leather case. The viewing angle of the monitor can be adjusted using the leather case. (As shown below)

Power saving
The monitor will be switched to "power saving" mode by the control signal from the display controller, as indicated b the power LED.

Model LED light

- On Blue
- Power saving   Red and blue flashing alternately
- Off None

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 DDC/CI standard.

Connector pin assignment
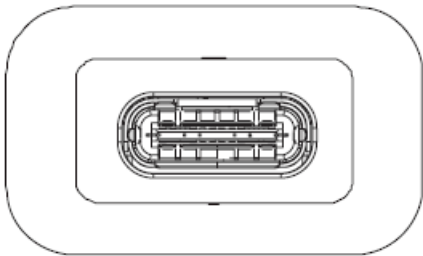
A1	GND	B1	GND
A2	TX1+	B2	TX2+
A3	TX1-	B3	TX2-
A4	VBUS	B4	VBUS
A5	CC	B5	CONN
A6	D+	B6	
A7	D-	B7	
A8	SBU1	B8	DBU2
A9	VBUS	B9	VBUS
A10	RX-2	B10	RX-1
A11	RX2+	B11	RX+1
A12	GND	B12	GND

Type C (24Pin female connector)

Standard timing table

Mode		Resolution		
1	VGA	640×480	60	Hz
2	VESA	800×600	60	Hz
3	VESA	1024×768	60	Hz
4	VESA	1280×1024	60	Hz
5	VESA	1280×720	60	Hz
6	WXGA+	1440×900	60	Hz
7	WXGA+	1600×900	60	Hz
8	WSXGA+	1680×1050	60	Hz
9	UXGA	1920×1080	60	Hz

Installation
To install the monitor on your host system, please follow the steps below:
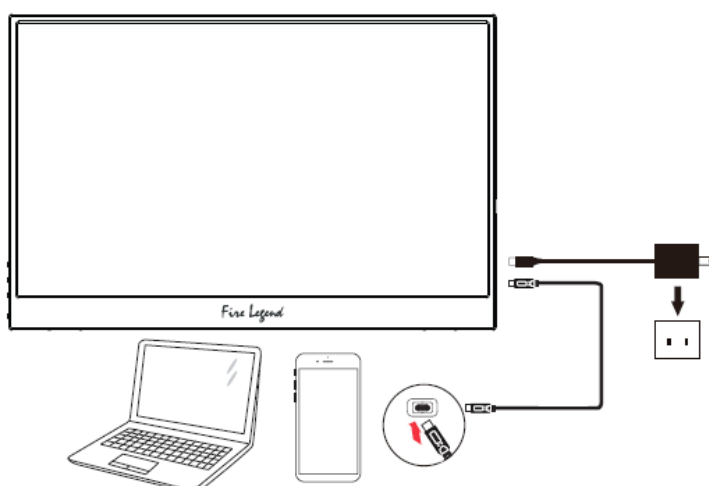
Steps
Connect the monitor to your computer

1. Connect the signal transmission cable (Thunderbolt 3 (USB-C) cable) to the monitor's Type-C jack and the Type-C output jack of the computer's display card.
2. The monitor does not require an external power supply via its micro USB port when it is connected to the computer; it only requires a single signal transmission cable (the Thunderbolt3 (USB-C) cable).

Connect the screen to your phone

1. Connect the signal transmission cable to the Type-C jack of the monitor and the Type-C output jack on your phone.
2. Some underpowered phones require an external power supply via the monitor's micro USB port when in use.

User controls
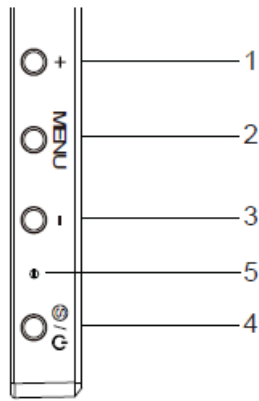
SOURCE (EXIT) / Power Switch

1	+	Brightness	a. Press this button to adjust the brightness diretly.
		Up	b. Press this button to select the desired item when in OSD menu.
2	MENU	Menu	a. Press this button to display the menu.
		OK	b. Press this button to confirm the selection when in OSD menu.
3	–	Volume	a. Press this button to adjust the volume diretly.
		Down	b. Press this button to select the desired item when in OSD menu.
4	⊚/⏻	SOURCE / EXIT	a. Press this to select signal channel. b. In OSD menu, short time press to exit menu.
		Power On/Off	c. Long time press this button to turn Off. d. Short time press this button to power On.
5	⊙	LED Indicator	Turns the monitor on/off. Blue indicates power on. Alternate red and blue flash indicates standby/power saving mode.

- To turn the monitor ON or OFF.
- Lights up to indicate the power is turned ON.
- Using the Shortcut Menu
- External controls

Adjusting the OSD settings
Note: The following content is for general reference only. Actual products 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 settings and general settings. For advanced settings, please refer to the following page:
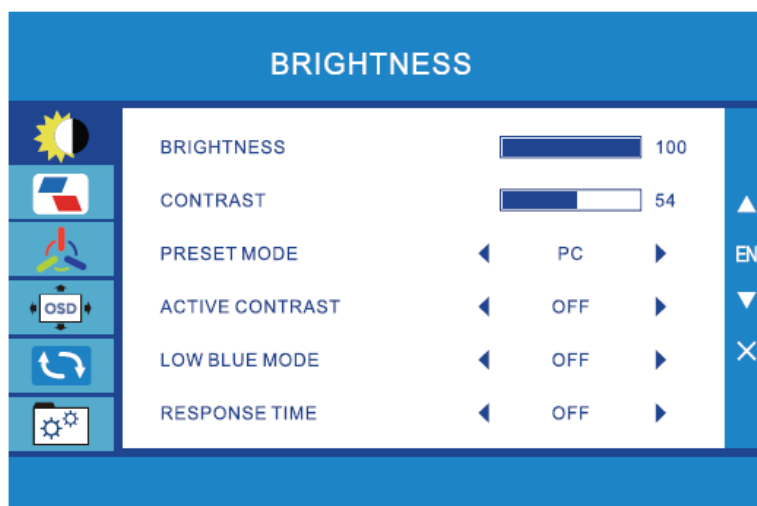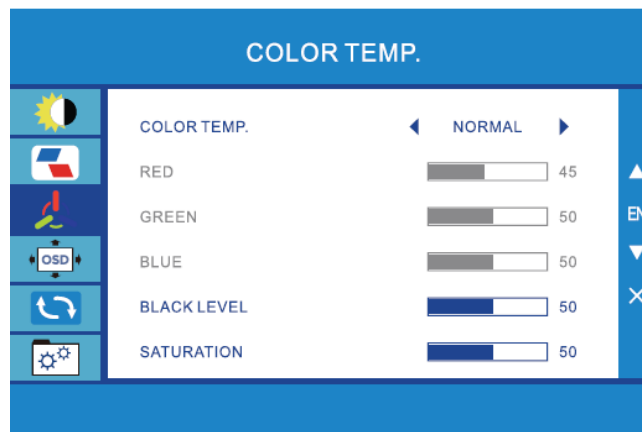
Adjusting the Brightness setting

1. Press the MENU key to bring up the OSD.
2. Using the + – / keys, select ☀ from the OSD. Then navigate to the feature you wish to adjust.
3. Press the MENU key to c rm your selection.
4. Use the + – / keys to adjust the sliding scales.
5. The BRIGHTNESS menu can be used to adjust the Brightness, Contrast, Preset mode, Active contrast, Low blue mode and Response time.

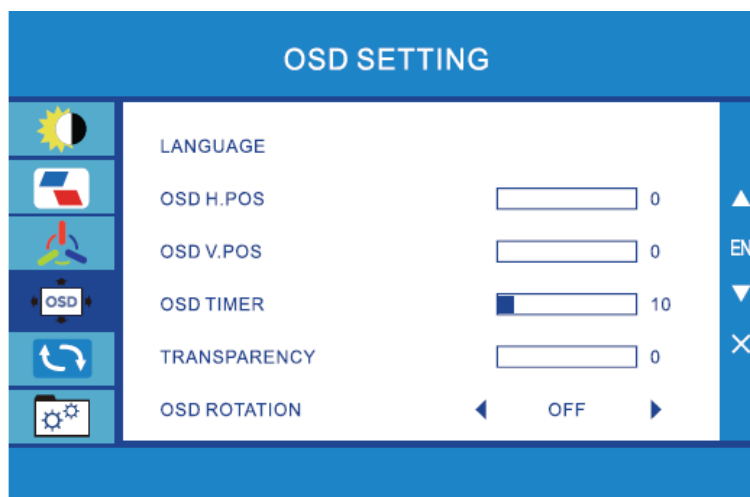**Adjusting the Image setting**

1. Press the MENU key to bring up the OSD.
2. Using the + / – keys, select ☐ Color from the OSD. Then navigate to the feature you wish to adjust
3. Press the MENU key to bring up the OSD.
   Using the + / – keys, select Color from the OSD. Then navigate to the feature you wish to adjust
4. Use the + / – keys to select Sharpness and Image ratio

Use the + / – keys to select Sharpness and Image ratio

COLOR TEMP.

|		
COLOR TEMP.	◄ NORMAL ►	
RED		45
GREEN		50
BLUE		50
BLACK LEVEL		50
SATURATION		50

1. Press the MENU key to bring up the OSD.

2. Using the + – / keys, select 🗻 Language from the OSD. Then navigate to the feature you wish to adjust.

3. Press the MENU key to c rm your select.

4. Use the + – / keys to select Color temp., Red, Green, Blue, Black level, Saturation to adjust.

Product the OSD setting

OSD SETTING

LANGUAGE		
OSD H.POS		0
OSD V.POS		0
OSD TIMER		10
TRANSPARENCY		0
OSD ROTATION	◄ OFF ►	

1. Press the MENU key to bring up the OSD.

2. Using the + / – keys, select [OSD] OSD Settings from the OSD. Then navigate to the feature you wish to adjust.

3. Press the MENU key to c rm your select.

4. Use the + / – keys to select Language, OSD H. POS, OSD V. POS, OSD Timer, Transparency, OSD rotation

Product the Reset setting
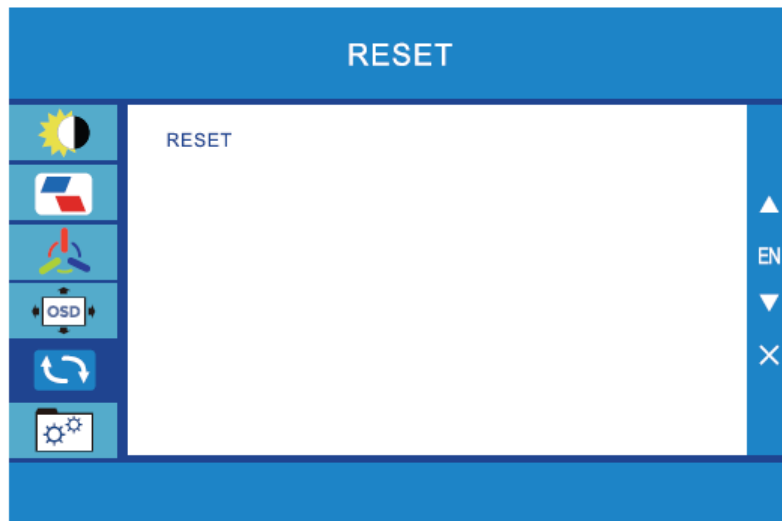
1. Press the MENU key to bring up the OSD.

2. Using the + / – keys, select Steup Menu from the OSD. Then navigate to the feature you wish to adjust.

3. Press the MENU key to c rm your select.

Product the Music setting
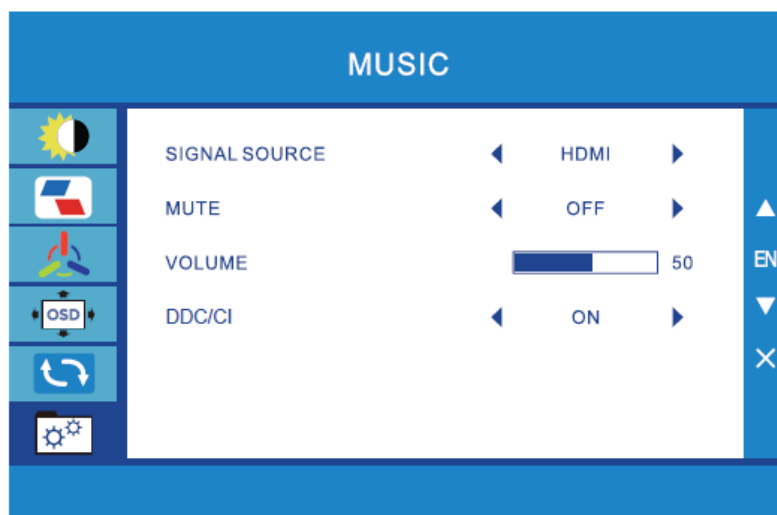
1. Press the MENU key to bring up the OSD.

2. Using the + / – keys, select OSD Settings from the OSD. Then navigate to the feature you wish to adjust.

3. Press the MENU key to c rm your select.

4. Use the + / – keys to select Signal source, Mute, Volum, DDC/CI

Troubleshooting

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

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 power cord is properly connected to the monitor.
	Red and blue flashing alternately	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		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.	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.

Type-C model
Note: AOPEN monitor is purposed for video and visual display of information obtained from electronic devices

Documents / Resources

AOPEN LCD Monitor 16PM1Q User's Guide	**AOPEN 16PM1Q LCD Monitor** [pdf] User Guide 16PM1Q, 16PM1Q LCD Monitor, LCD Monitor, Monitor

References

- *a* **Notebook, computer desktop, Chromebook, monitor e proiettori Acer | Acer Italia**