

MONOPRICE

MP 27" Zero-G 1440p 144Hz LED Gaming Monitor



P/N 16384

User's Manual

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SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- Do not place the monitor on an unstable surface where it could fall and cause either personal injury or damage to the monitor and/or other equipment.
- Do not expose the monitor to water or moisture of any kind. Do not place objects containing moisture, such as a glass or vase, where it could tip over and spill into or onto the monitor.
- If the monitor is exposed to water or moisture, immediately unplug it from its power source and allow it to completely dry out before reapplying power.
- Do not block the ventilation holes in the monitor's casing. Do not place the monitor in a confined space with inadequate ventilation.
- Do not place the monitor near a heat source, such as a fireplace, heating vent, radiator, etc.
- The power supply for this monitor uses a NEMA 5-15 three prong, grounded plug. Do not use a "cheater" plug or otherwise bypass the grounding pin.
- The power supply for this monitor accepts a wide range of input voltages, from 100 to 240 VAC, 50 or 60 Hz. Ensure that your power source is within these limits. If not, consult a professional electrician or your power company for a resolution.
- Unplug the monitor if it will go unused for a long period of time.
- This monitor has no user serviceable parts. Do not open the case or otherwise attempt to modify this monitor.
- Clean only using a soft, dry cloth. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- Do not leave a single image on the display for a long period of time. Doing so could cause "burn-in" of the image. It is recommended to use a variable desktop background and to use a screen saver to prevent "burn-in". Alternatively, ensure that the monitor is power off for at least 2 hours out of every 12.

INTRODUCTION

Thank you for purchasing this 27" Zero-G LED Gaming Monitor! This monitor features Dual-Link DVI-D, DisplayPort, HDMI® 2.0, and HDMI 1.4/MHL™ video inputs. It has a maximum resolution of 2560 x 1440 @ 144Hz, making it well suited for 3D gaming and movie watching. It supports Picture-in-Picture, as well as two and four input Picture-by-Picture modes. It supports AMD FreeSync™ technology for the DisplayPort input.

FEATURES

- 2560 x 1440 maximum resolution with 144Hz refresh rate
- 0.16mm dot pitch and 350cd/m² brightness
- Dual-Link DVI-D, DisplayPort 1.2, HDMI® 2.0, and HDMI 1.4/MHL™ video inputs
- HDMI/MHL input allows the use of a passive MHL cable to connect your smartphone directly to the monitor
- 3.5mm audio input and output with optional audio output of audio carried along with video on the DisplayPort or HDMI video inputs
- Supports simultaneous display of any two or all four video inputs
- Two input display modes include side-by-side, top-and-bottom, or picture-in-picture display modes
- Supports AMD FreeSync™ technology for the DisplayPort input

CUSTOMER SERVICE

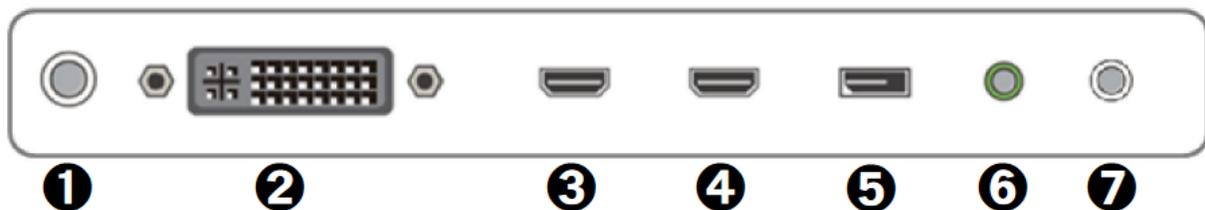
The Monoprice Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website www.monoprice.com during normal business hours (Mon-Fri: 5am-7pm PT, Sat-Sun: 9am-6pm PT) or via email at support@monoprice.com

PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

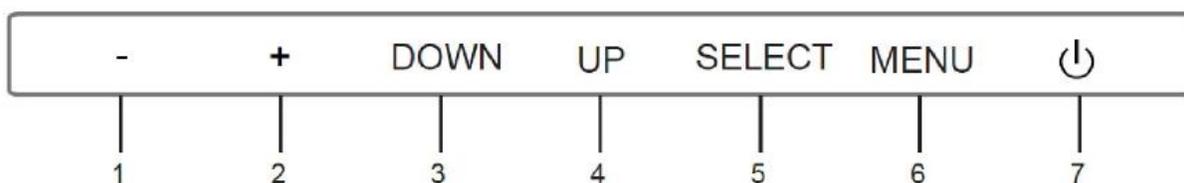
- 1x 27" Zero-G LED monitor
- 1x Stand base
- 1x AC power adapter
- 1x AC power cord (NEMA 5-15 to IEC 60320 C13)
- 1x High speed HDMI® cable
- 1x User's manual

CONNECTIONS



1. **DC In:** DC barrel connector attaching the included AC power adapter.
2. **DVI:** Dual-link DVI-D video input connector.
3. **HDMI-MHL:** HDMI® 1.4 video input connector with MHL™ support.
4. **HDMI 2.0:** HDMI 2.0 video input connector.
5. **DisplayPort:** DisplayPort 1.2 video input connector with support for AMD FreeSync™ technology.
6. **Line In:** 3.5mm TRS audio input connector.
7. **Ear Phone:** 3.5mm TRS audio output connector.

CONTROLS



1. -: If the Main OSD, Display Mode, or Input Selection menu is displayed, pressing the - button moves the yellow highlight to the left. If no menu is being displayed, pressing the - button opens the Volume Control. If the Main OSD menu is displayed and an entry has been opened for editing or if the Volume or Brightness Control is displayed, pressing the - button decreases the selected value.
2. +: If the Main OSD, Display Mode, or Input Selection menu is displayed, pressing the + button moves the yellow highlight to the right. If no menu is being displayed, pressing the + button opens the Brightness Control. If the Main OSD menu is displayed and an entry has been opened for editing or if the Volume or Brightness Control is displayed, pressing the + button increases the selected value.
3. **DOWN**: If the Main OSD menu is displayed and a page has been selected, pressing the **DOWN** button moves the highlight down. If no menu is displayed, pressing the **DOWN** button opens the Display Mode menu.
4. **UP**: If the Main OSD menu is displayed and a page has been selected, pressing the **UP** button moves the highlight up. If no menu is displayed, pressing the **UP** button opens the Input Selection menu.
5. **SELECT**: If the Main OSD is displayed, pressing the **SELECT** button selects the highlighted page or selects the highlighted entry for editing. If an entry is being edited, pressing the **SELECT** button saves the changes and exits editing. If either the Display Mode or Input Selection menu is displayed, pressing the **SELECT** button selects the highlighted entry.
6. **MENU**: If no menu is displayed, pressing the **MENU** button opens the Main OSD. If the Main OSD, Display Mode, or Input Selection menus are displayed or if either the Volume or Brightness Control is displayed, pressing the **MENU** button exits the

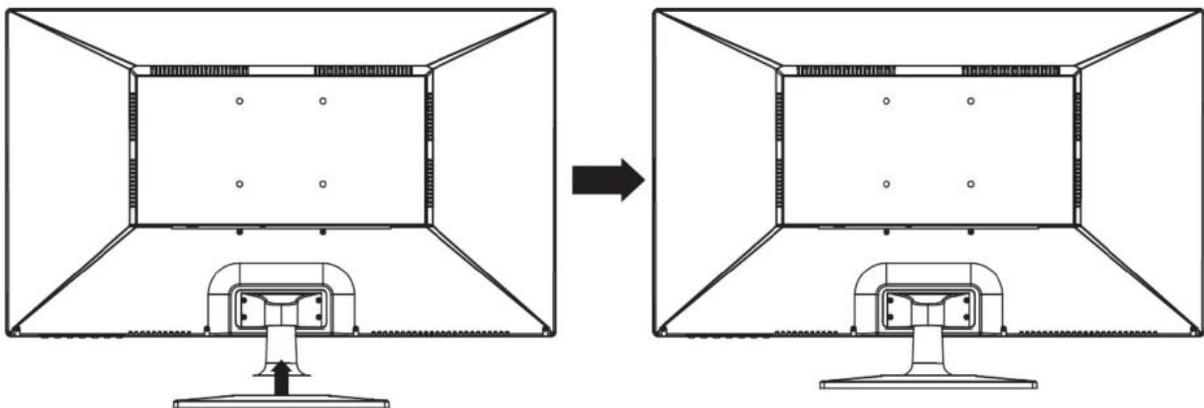
menu. If a Main OSD menu page or entry has been selected, pressing the **MENU** button backs out one step.

7. : Press the  button to the monitor on or off.

USING THE INCLUDED STAND

If you intend to use the included stand, perform the following steps to install the stand base.

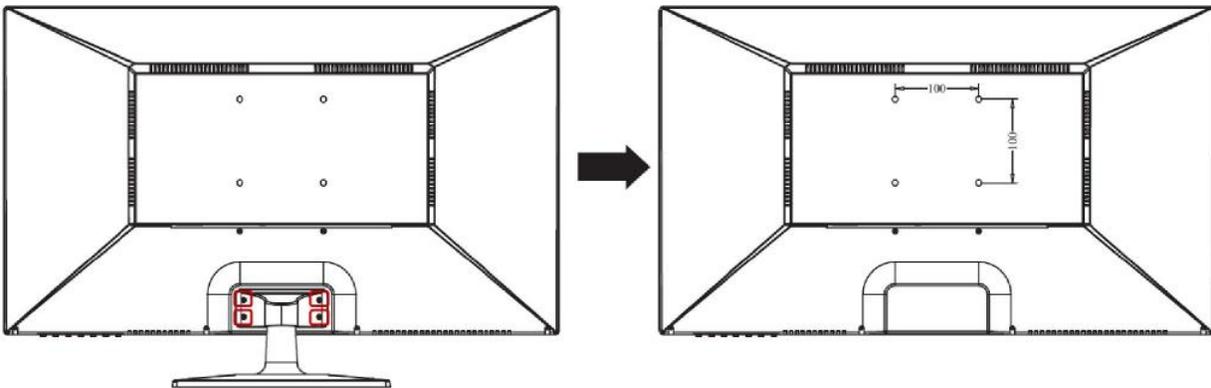
1. Place the stand base on a desk or table with the long side with the mounting post away from you and the larger side toward you.
2. Grasp the monitor with both hands and the screen facing you.
3. Position the monitor stand post over the stand base mounting post, then slide it down and into place until you hear an audible click as the locking tabs slide into place.



USING A WALL OR DESK MOUNT

If you wish to use a wall or desk mount, you can do so with or without the included stand installed. If you wish a cleaner appearance with the stand removed, perform the following steps.

1. Spread a towel or blanket out on the floor, table, or other flat surface. Place the monitor face down on the towel or blanket.
2. Using a #1 Phillips screwdriver, remove the four screws that hold the stand to the monitor.



3. Save the screws and stand for possible future use.
4. Attach the monitor to a wall or desk mount with a 100x100 VESA pattern following the instructions and using the hardware that came with the wall or desk mount.

INSTALLATION

Perform the following steps to install the monitor and prepare it for use.

1. Install the stand or install the monitor to a wall or desk mount, as outlined in the two sections above.
2. Connect video cable(s) from your source device(s) to the monitor's input(s). The monitor features four video inputs and the ability to display any two or all four inputs on screen at the same time. A High Speed HDMI® Cable is included. Additional High Speed HDMI Cables, DisplayPort cables, Dual-Link DVI-D cables, and passive MHL™ cables are available separately.

3. (Optional) Using a 3.5mm TRS audio cable (available separately), plug one end into the **Line In** jack on the monitor, then plug the other end into your audio source device, such as the headphone/speaker output on your computer.
4. (Optional) Plug a pair of headsets or powered speakers (available separately) into the **Ear Phone** jack.
5. Plug the DC barrel connector on the included AC power adapter into the **DC In** jack on the monitor.
6. Plug one end of the AC power cord into the AC power adapter, then plug the other end into a nearby AC power outlet.

AUDIO SPLITTING

In addition to outputting audio from the **Line In** jack, the monitor can be configured to split the audio out of the combined audio/video signal carried on the DisplayPort or HDMI® video inputs. Note that the DVI standard cannot carry audio.

VOLUME CONTROL

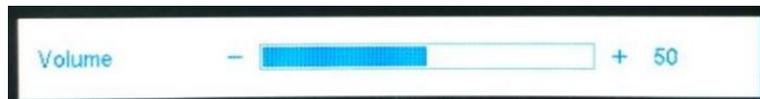
You can control the volume level of the audio output from the Ear Phone jack in two ways.

Main OSD Menu

1. Ensure that no menu or control is displayed, then press the **MENU** button to display the Main OSD menu.
2. Press the **+** button three times to move the yellow highlight to the **Advance** tab.
3. Press the **SELECT** button once to enter the **Advance** page. The white highlight will already be on the **Volume** entry.
4. Press the **SELECT** button once again to move the white highlight to the Volume value.
5. Use the **+** and **-** buttons to adjust the volume level as desired.
6. Press the **MENU** button three times to exit the Main OSD menu.

Volume Control

1. Ensure that no menu or control is displayed, then press the **-** button to display the Volume Control.
2. Use the **+** and **-** buttons to adjust the volume level as desired.
3. Press the **MENU** button to exit the Volume Control.



BRIGHTNESS CONTROL

You can adjust the brightness level of the display in two ways.

Main OSD Menu

1. Ensure that no menu or control is displayed, then press the **MENU** button to display the Main OSD menu. The yellow highlight will already be on the Picture tab.
2. Press the **SELECT** button to enter the Picture page. The white highlight will be on the Brightness entry.
3. Press the **SELECT** button again to move the white highlight to the Brightness value.
4. Press the **+** and **-** buttons to adjust the Brightness level as desired.
5. Press the **MENU** button three times to exit the Main OSD menu.

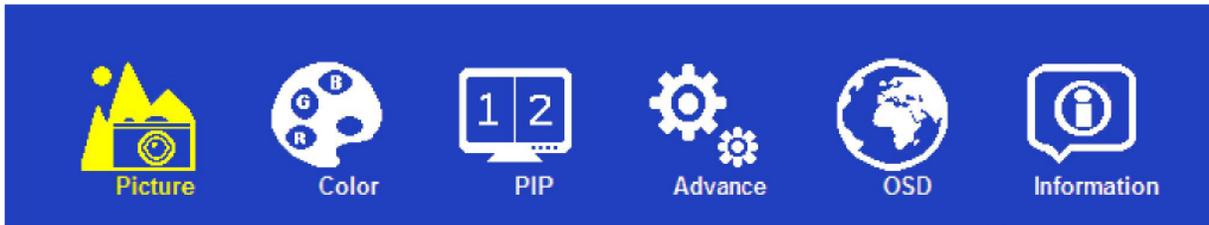
Brightness Control

1. Ensure that no menu or control is displayed, then press the **+** button to display the Brightness control.
2. Press the **+** and **-** buttons to adjust the Brightness level as desired.
3. Press the **MENU** button to exit the Brightness control.



MAIN OSD MENU

Picture Menu



Brightness	<input type="range" value="50"/>	50
Contrast	<input type="range" value="50"/>	50
Sharpness	<input type="range" value="2"/>	2
Aspect Ratio	◀ Full ▶	
Ultra Vivid	◀ Off ▶	
DCR	◀ Off ▶	

Brightness: Adjusts the image brightness. The adjustment range is 0 to 100.

Contrast: Adjusts the image contrast. The adjustment range is 0 to 100.

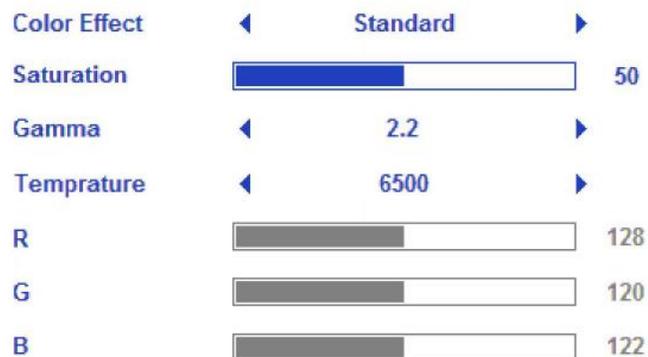
Sharpness: Adjusts the image sharpness. The adjustment range is 0 to 4.

Aspect Ratio: Sets the image aspect ratio. The three options are Full, 4:3, and 1:1.

Ultra Vivid: Improves image sharpness. The available options are Off, Low, Middle, and High.

DCR: Enables or disables the Dynamic Contrast Ratio. The DCR is a circuit that increases the effective image contrast by changing the light intensity of the LED backlighting. DCR tends to cause too much contrast fluctuation when dealing with swiftly moving images and is therefore more suited to applications use than for gaming. DCR can be turned On or Off.

Color Menu



Color Effect: Allows selection of one of five preset color settings for use with different types of applications. The available presets are:

Standard: The default color setting for everyday application use.

Game: A preset designed for use with gaming.

Movie: A preset designed for watching movies.

Photo: A preset designed for looking at photographs.

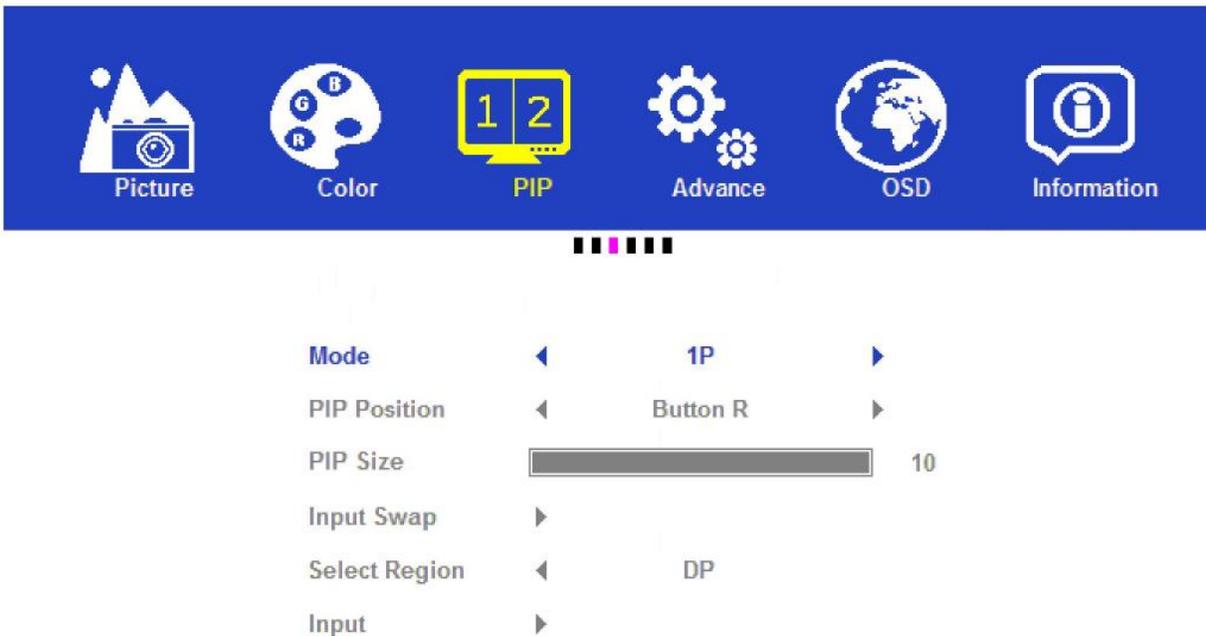
Vivid: A preset designed for the best brightness and contrast.

Gamma: Allows selection of the gamma decoding value. The possible options are Off, 1.8, 2.0, 2.2 and 2.4.

Temperature: Allows selection of one of four preset color temperature settings, as well as a custom setting. The possible options are 9300, 6500, 5800, SRGB, and User. When User is selected, you can set the individual Red, Green, and Blue values.

R G B: When the Temperature is set to User, you can adjust the individual Red, Green, and Blue values. The adjustment range is 0 to 256.

PIP Menu



Mode: Allows selection of the number and arrangement of images for the different inputs. The available options are 1P (single input), 2P LR (two inputs arranged horizontally), 2P TB (two inputs arranged vertically), 2P PIP (two inputs in traditional picture-in-picture format), and 4P (four inputs, one in each corner).

PIP Position: When the Mode is set to 2P PIP, you can determine where the second image appears on screen. The possible options are Bottom Left, Bottom Right, Center, Top Left, and Top Right, with Bottom Right as the default. *Note that the Bottom options are misspelled as "Button" in the OSD.*

PIP Size: When the Mode is set to 2P PIP, you can determine the size of the inset image. The adjustment range is 0 to 10.

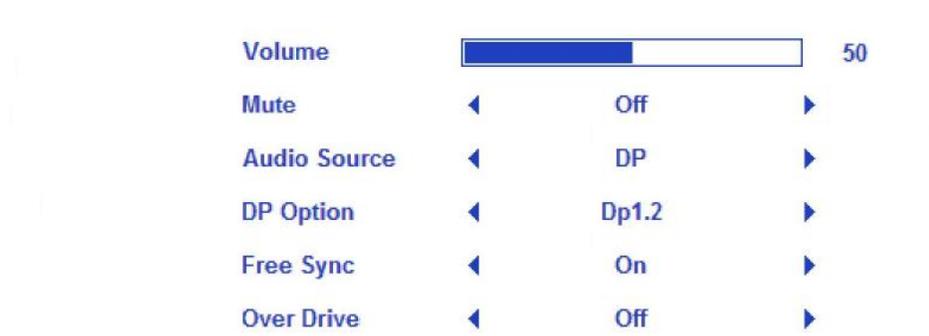
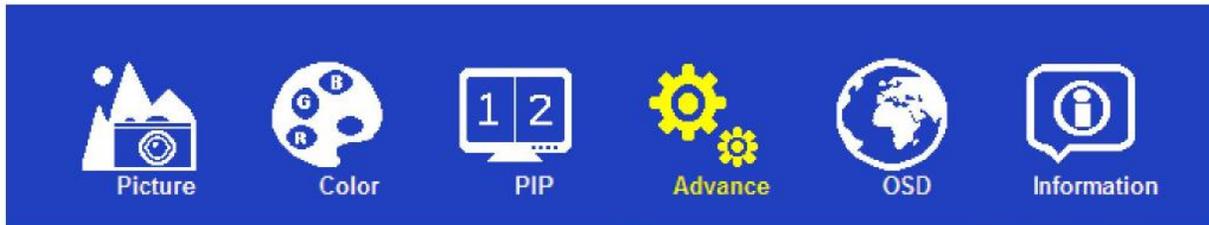
Input Swap: When the Mode is set to 2P LR, 2P TB, or 2P PIP, selecting the Input Swap option swaps the positions of the two inputs. This option is not available when the Mode is set to 1P or 4P.

Select Region: This option has no effect.

Input: Selecting this option displays a menu that allows direct selection of the input for each image.

Advanced Menu

Note that the Advanced tab is misspelled as "Advance" in the OSD.



Volume: Allows adjustment of the audio volume level. The adjustment range is 0 to 100.

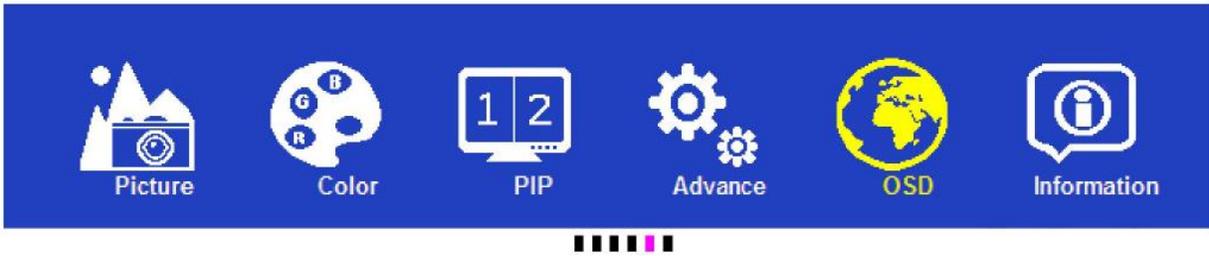
Audio Source: Allows selection of the audio source. The options include Line In, DP, HDMI[®] 1, and HDMI 2. Note that the DP, HDMI 1, and HDMI 2 options are only available when a signal is present on the indicated input.

DP Option: Allows selection of the DisplayPort standard to use. The available options are Dp1.1 and Dp1.2. This option is only available when DisplayPort is the selected input.

Free Sync: Allows the AMD[®] FreeSync™ mode to be enabled or disabled. The available options are On and Off. This option is only available when DisplayPort is the active input and when the DisplayPort source supports FreeSync.

Over Drive: Improves the display response time when enabled. The available options are On and Off.

OSD Menu



Language	◀ English ▶
Menu Time	<input type="range" value="11"/> 11
OSD H Position	<input type="range" value="50"/> 50
OSD V Position	<input type="range" value="50"/> 50
Transparency	<input type="range" value="0"/> 0
OSD Rotate	◀ 0 ▶
Reset	▶

Language: Selects the language used in the OSD system. The available options are English, Francais, Deutsch, Italiano, España, and русский (Cyrillic).

Menu Time: Determines the length of time the OSD will remain on screen with no input. The adjustment range is 10 to 60 seconds, in 1 second increments.

OSD H Position: Determines the horizontal position of the OSD menu. The adjustment range is 0 to 100.

OSD V Position: Determines the vertical position of the OSD menu. The adjustment range is 0 to 100.

Transparency: Adjust the level of transparency/opacity of the OSD menu. The adjustment range is 0 to 100.

OSD Rotate: Rotates the OSD menu for landscape or portrait screen orientation. The available options are 0 (normal landscape), 90, and 270.

Reset: When selected this option resets all monitor settings to the factory default values.

Information Menu



DP
3840x2160@60.0Hz
H:133.9KHz PCLK:533.5MHz

This screen shows the connection type, screen resolution with vertical scan frequency, horizontal frequency, and pixel clock values.

INPUT SELECTION MENU

Rather than using the Main OSD menu to change the selected input, you can access the Input Selection menu directly by pressing the **UP** button when no other menu screens are visible. To change the selected input, use the **+** and **-** buttons to move the yellow highlight, then press the **Select** button. To exit without making any changes, press the **Menu** button.



DISPLAY MODE MENU

Rather than using the Main OSD menu to set the display mode, you can access the Display Mode menu directly by pressing the **DOWN** button when no other menu screens are visible. To change the selected display mode, use the **+** and **-** buttons to move the yellow highlight, then press the **Select** button. To exit without making any changes, press the **Menu** button.



SPECIFICATIONS

Model	16384
Display Type	TN panel with LED backlight
Screen Size	27" (686mm)
Maximum Resolution	2560 x 1440 @ 144Hz (QHD)
Dot Pitch	0.16 x 0.16 mm
Brightness	350 cd/m ²
Viewing Angles	170° horizontal, 160° vertical
Video Inputs	1x Dual Link DVI-D, 1x DisplayPort 1.1/1.2, 1x HDMI® 2.0, 1x HDMI 1.4/MHL™
Audio Input	1x 3.5mm TRS
Headphone Output	1x 3.5mm TRS
Horizontal Frequency	30 ~ 135 kHz
Vertical Frequency	60 ~ 144 Hz
Pixel Clock Frequency	594 MHz
Plug-n-Play Standard	VESA DDC2BTM
Power Consumption	Operation: < 60 watts, Standby: < 1 watt
Input Power	12 VDC, 5A
AC Adapter Input Power	100 ~ 240 VAC, 50/60 Hz
Operating Temperature	+32 ~ +122°F (0 ~ +50°C)
Storage Temperature	-4 ~ +140°F (-20 ~ +60°C)
Operating Humidity	10 ~ 85% RH, non-condensing
VESA Mount Size	100 x 100
Dimensions	25.4" 17.8" x 6.7" (646 x 452 x 170 mm)
Weight	14.8 lbs. (6.7 kg)

REGULATORY COMPLIANCE

Notice for FCC



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.

Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice for Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

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