

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Samsung](#) /

› [Samsung 27-Inch Odyssey G51C Series QHD Gaming Monitor User Manual](#)

## Samsung LS27CG512ENXZA

# Samsung 27-Inch Odyssey G51C Series QHD Gaming Monitor

Model: LS27CG512ENXZA

Brand: Samsung

## INTRODUCTION

---

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Samsung 27-Inch Odyssey G51C Series QHD Gaming Monitor. Please read this manual thoroughly before using the product to ensure proper and safe operation. Keep this manual for future reference.



Front view of the Samsung Odyssey G51C Gaming Monitor. Note: While the image may display a 32-inch model, this manual pertains to the 27-inch version (LS27CG512ENXZA).

## SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to your monitor:

- Do not place the monitor in an unstable location.
- Do not block ventilation openings.
- Use only the power cord and adapter supplied by the manufacturer.
- Do not expose the monitor to rain or moisture.
- Avoid placing the monitor near heat sources or in direct sunlight.
- Disconnect the power plug from the wall outlet if the monitor will be unused for a long period.
- Refer all servicing to qualified service personnel.

## WHAT'S IN THE BOX

Verify that all components are present in the package:

- HDMI Cable

- DisplayPort Cable
- Power Cable
- Monitor Unit
- Stand Base
- Stand Neck
- User Manual (this document)

## SETUP

---

### 1. Assembling the Stand

1. Carefully place the monitor face down on a soft, clean surface to prevent scratches.
2. Attach the stand neck to the back of the monitor until it clicks into place.
3. Secure the stand base to the bottom of the stand neck using the provided screw.

### 2. Connecting the Monitor

Connect the necessary cables to the corresponding ports on the back of the monitor.



Rear view of the monitor showing input ports: DC 19V, DisplayPort IN, HDMI IN 1, HDMI IN 2, USB/SERVICE, and Headphone IN.

- **Power Connection:** Connect the power cable to the DC 19V port on the monitor and then to a power outlet.
- **Video Connection:**
  - For optimal performance, connect the DisplayPort cable from your computer's graphics card to the DisplayPort IN port on the monitor.
  - Alternatively, connect an HDMI cable from your computer or other device to either HDMI IN 1 or HDMI IN 2.
- **Audio Connection:** Connect headphones or external speakers to the Headphone IN port if desired.

### 3. Initial Power On

Once all cables are connected, press the power button located on the bottom right of the monitor to turn it on. The monitor should automatically detect the input source. If not, use the OSD (On-Screen Display) menu to manually select the input.

## OPERATING THE MONITOR

### On-Screen Display (OSD) Navigation

The OSD menu allows you to adjust various monitor settings. Use the joystick button located on the bottom right of the monitor to navigate the menu:

- Press the joystick button to open the OSD menu.
- Move the joystick up/down/left/right to navigate through options.
- Press the joystick button to confirm a selection.
- Move the joystick left to go back to the previous menu or exit the OSD.

### Display Settings

Optimize your viewing experience by adjusting the following settings:

- **Resolution:** The monitor supports QHD (2560x1440) resolution, providing incredibly detailed and sharp images. Ensure your computer's display settings are set to 2560x1440 for the best visual quality.



Visual comparison demonstrating the increased detail and space provided by QHD resolution over Full HD.

- **Refresh Rate:** This monitor features a 165Hz refresh rate for smooth motion. You can adjust this in your computer's display settings.

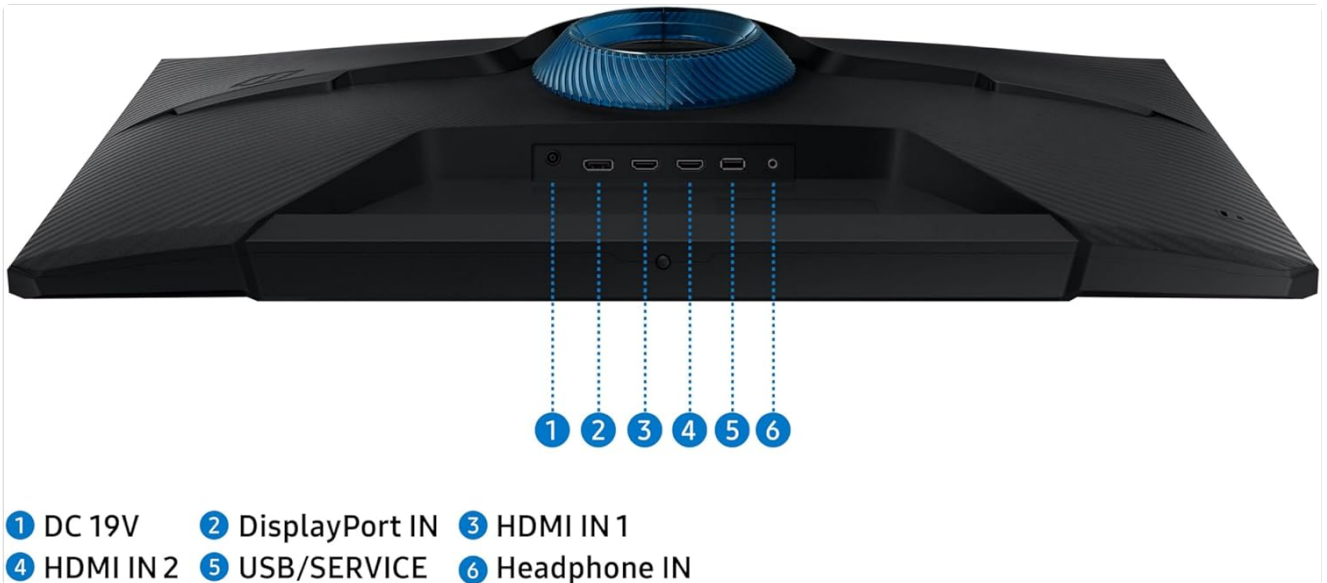


Illustration showing the difference in smoothness between a 60Hz and a 165Hz refresh rate, highlighting the 1ms response time.

- **HDR10:** Experience vibrant and detailed graphics with HDR10 support. Enable HDR in your operating system's display settings for compatible content.
- **Brightness & Contrast:** Adjust these settings in the OSD menu to suit your environment and personal preference.

## Gaming Features

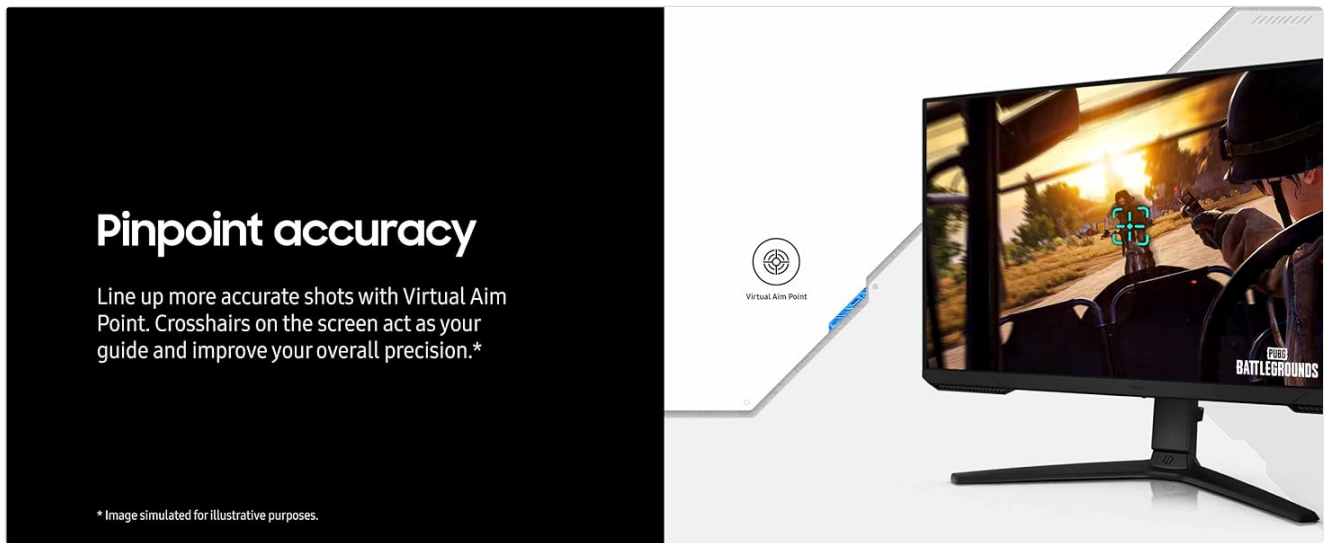
The Odyssey G51C monitor includes features designed to enhance your gaming experience:

- **AMD FreeSync™ Premium:** This technology synchronizes the monitor's refresh rate with your graphics card's frame rate to reduce screen tearing and stuttering. Ensure FreeSync is enabled in the OSD and your AMD graphics card settings.



Visual representation of gameplay with FreeSync disabled versus enabled, showing smoother motion with FreeSync ON.

- **Black Equalizer:** Adjust the darkness levels to reveal enemies hiding in dark areas of the game. Access this setting through the OSD menu.
- **Virtual Aim Point:** Display an on-screen crosshair to improve aiming precision in games. This feature can be toggled in the OSD.



An in-game screenshot demonstrating the Virtual Aim Point crosshair overlay for enhanced targeting.

## Ergonomic Adjustments

The monitor stand allows for various adjustments to achieve optimal viewing comfort:

- **Swivel:** Rotate the monitor horizontally on its base.
- **Tilt:** Adjust the vertical angle of the screen (forward/backward).
- **Height Adjustment:** Move the screen up or down along the stand.
- **Pivot:** Rotate the screen to a portrait orientation.

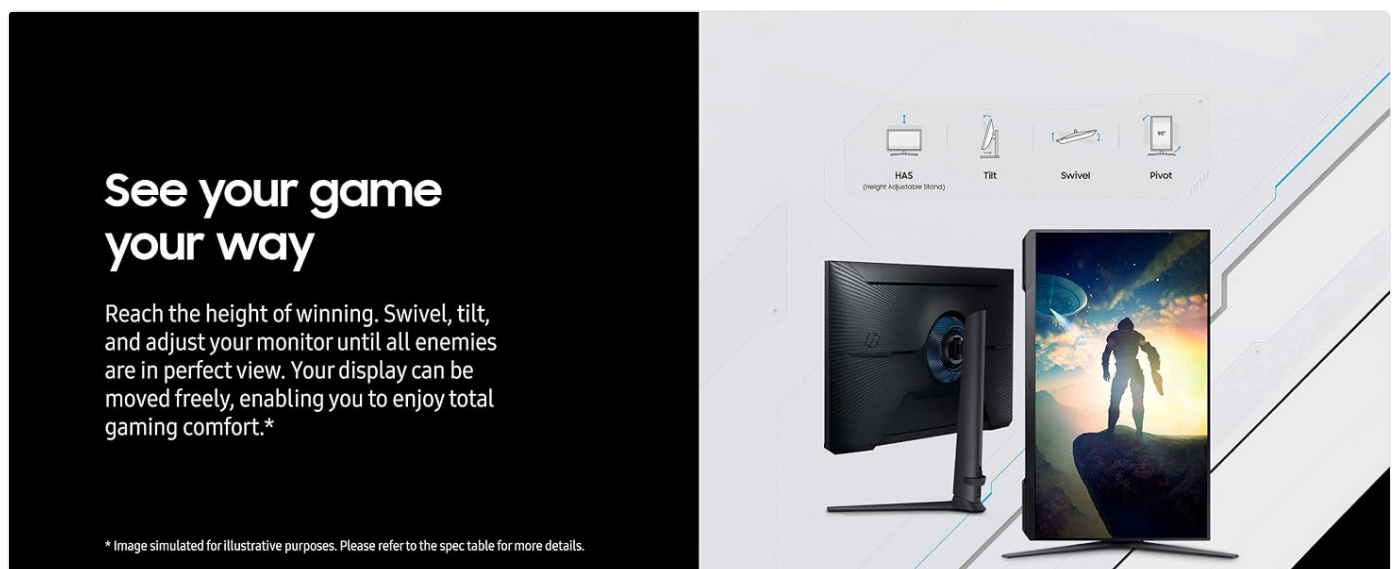


Diagram illustrating the range of motion for height adjustment (HAS), tilt, swivel, and pivot functions of the monitor stand.

## MAINTENANCE

### Cleaning the Monitor

To clean the monitor, follow these steps:

1. Turn off the monitor and unplug the power cord.
2. Gently wipe the screen with a soft, lint-free cloth. For stubborn marks, lightly dampen the cloth with water or a specialized screen cleaner (do not spray directly onto the screen).
3. Wipe the exterior casing with a soft, dry cloth.
4. Avoid using abrasive cleaners, alcohol, or ammonia-based solutions, as they can damage the screen or casing.

## TROUBLESHOOTING

If you encounter issues with your monitor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on screen	Power cable disconnected; Video cable disconnected or loose; Incorrect input source selected.	Check power and video cable connections; Select correct input source via OSD.
Image is blurry or distorted	Incorrect resolution or refresh rate; Graphics card driver issues.	Set display resolution to 2560x1440 and refresh rate to 165Hz; Update graphics card drivers.
Screen tearing or stuttering	AMD FreeSync Premium not enabled or compatible.	Ensure FreeSync is enabled in OSD and graphics card settings; Verify graphics card compatibility.
No sound from headphones/speakers	Audio cable disconnected; Volume too low; Incorrect audio output selected on computer.	Check audio cable connection; Adjust volume; Select monitor as audio output device on computer.

## SPECIFICATIONS

Detailed technical specifications for the Samsung 27-Inch Odyssey G51C Gaming Monitor:

Feature	Specification
Standing Screen Display Size	27 Inches
Screen Resolution	2560x1440 (QHD)
Max Screen Resolution	2560 x 1440 Pixels
Brand	Samsung
Series	G51C
Item Model Number	LS27CG512ENXZA
Item Weight	10.58 pounds
Product Dimensions	9.22 x 24.34 x 20.5 inches
Color	Black
Voltage	240 Volts
Aspect Ratio	16:9

Feature	Specification
Screen Surface Description	Matte
Refresh Rate	165Hz
Response Time	1ms (MPRT)
HDR Support	HDR10
Adaptive Sync Technology	AMD FreeSync Premium

## WARRANTY AND SUPPORT

---

Your Samsung Odyssey G51C Gaming Monitor is covered by Samsung's standard limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Samsung website.

For technical support, service inquiries, or to find additional resources, please visit the [Samsung Store on Amazon](#) or the official Samsung support website.