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> [SAMSUNG Odyssey G50D Series 27-Inch QHD Gaming Monitor User Manual \(Model: LS27DG500ENXZA\)](#)

Samsung LS27DG500ENXZA

SAMSUNG Odyssey G50D Series 27-Inch QHD Gaming Monitor User Manual

Model: LS27DG500ENXZA

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your SAMSUNG Odyssey G50D Series 27-Inch QHD Gaming Monitor. Please read these instructions thoroughly before operating the device and retain them for future reference.

The SAMSUNG Odyssey G50D monitor is designed to deliver a high-performance visual experience with its QHD resolution, fast refresh rate, and adaptive sync technologies.



2. SAFETY INFORMATION

Always observe the following safety precautions to prevent damage to your monitor or injury to yourself and others.

- **Power Source:** Use only the power cord supplied with the monitor. Ensure the power outlet is properly grounded.
- **Ventilation:** Do not block ventilation openings. Allow adequate space around the monitor for proper airflow.
- **Liquid Exposure:** Keep the monitor away from liquids. Do not expose it to rain or moisture.
- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry cloth. Avoid abrasive cleaners.
- **Placement:** Place the monitor on a stable, level surface. Avoid placing it in direct sunlight or near heat sources.

3. PACKAGE CONTENTS

Verify that all items are present in your product box:

- SAMSUNG Odyssey G50D 27-Inch QHD Gaming Monitor
- Power Cord
- DisplayPort (DP) Cable
- Monitor Stand (Base and Neck)
- User Manual (this document)

4. SETUP

4.1 Assembling the Stand

1. Carefully remove the monitor from its packaging, keeping it protected on a soft surface.
2. Attach the stand neck to the monitor's rear panel. Ensure it clicks securely into place.
3. Connect the stand base to the stand neck. Tighten the screw at the bottom of the base to secure it.



Figure 4.1: Rear view of the monitor with the stand assembly.

4.2 Connecting Cables

Locate the input ports on the rear of the monitor. Refer to Figure 4.2 for port identification.



- ① HDMI IN ② DP IN ③ SERVICE ④ POWER

Figure 4.2: Monitor input ports (1 HDMI In, 2 DP In, 3 Service, 4 Power).

1. **Power Connection:** Connect the power cord to the monitor's power input (4) and then to a wall outlet.
2. **Video Connection:** Connect one end of the supplied DisplayPort (DP) cable to the DP In port (2) on the monitor and the other end to the DisplayPort output on your computer's graphics card. Alternatively, use an HDMI cable to connect to the HDMI In port (1).
3. **Audio Output:** If desired, connect headphones or external speakers to the 3.5mm audio output jack (headphone icon).

4.3 Initial Power On

After connecting all necessary cables, press the power button (typically a joystick-style button located on the bottom center of the monitor) to turn on the monitor. Your computer should detect the monitor automatically.

5. OPERATING THE MONITOR

5.1 On-Screen Display (OSD) Menu

The monitor's settings are controlled via the OSD menu, accessed using the joystick button on the bottom center of the monitor.

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

5.2 Key Features and Settings

- **QHD Resolution (2560x1440):** Provides detailed and sharp images. Ensure your graphics card and operating system are configured to output at this resolution.
- **180Hz Refresh Rate & 1ms Response Time (GtG):** For smooth motion and reduced blur in fast-paced content. Enable the highest refresh rate in your operating system's display settings and graphics card control panel. Adjust response time settings in the OSD if available (e.g., 'Extreme mode').

React in real time

180Hz & 1ms (GtG)



Figure 5.1: Visual representation of 180Hz refresh rate and 1ms response time.

- **VESA DisplayHDR 400:** Enhances contrast with deeper blacks and brighter whites. Activate HDR in your operating system settings for compatible content.

Shed new light on hidden details

VESA DisplayHDR 400



Figure 5.2: Monitor showcasing VESA DisplayHDR 400 capabilities.

- **G-Sync Compatible / AMD FreeSync:** Synchronizes the monitor's refresh rate with your graphics card's frame rate to eliminate screen tearing and stuttering. Ensure this feature is enabled in your graphics card's control panel.
- **Eye Saver Mode:** Reduces blue light emissions to minimize eye strain during extended use. This can be toggled on/off in the OSD menu.
- **Ergonomic Stand:** The stand allows for height adjustment, tilt, swivel, and pivot (90-degree rotation) for optimal viewing comfort.



Figure 5.3: Monitor with its ergonomic stand demonstrating adjustability.

6. MAINTENANCE

6.1 Cleaning the Monitor

- Always unplug the monitor from the power outlet before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a specialized screen cleaner.
- Do not spray cleaner directly onto the screen. Apply it to the cloth first.

- Avoid using benzene, alcohol, or abrasive cleaners, as these can damage the screen surface.

6.2 General Care

- Avoid touching the screen with sharp objects.
- Do not place heavy objects on the monitor or its cables.
- Store the monitor in a cool, dry place if not in use for an extended period.

7. TROUBLESHOOTING

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

- **No Signal / Blank Screen:**

- Ensure all video cables (DisplayPort, HDMI) are securely connected to both the monitor and the computer.
- Verify the monitor's input source is correctly selected in the OSD menu (e.g., DP or HDMI).
- Check if the computer is powered on and not in sleep mode.
- Try a different video cable or port on your graphics card.

- **Screen Flickering:**

- Ensure your graphics card drivers are up to date.
- Check for external interference from other electronic devices.
- Disable or re-enable G-Sync/FreeSync in your graphics card settings.

- **Image Quality Issues (Blurry, Incorrect Colors):**

- Adjust resolution and refresh rate settings in your operating system.
- Perform a factory reset via the OSD menu.
- Calibrate color settings using your operating system's tools or the monitor's OSD.

- **Dead Pixels:**

- A small number of non-functioning pixels is common in LCD/LED technology and may not indicate a defect. Refer to Samsung's pixel policy for more information.

If the problem persists after trying these solutions, contact Samsung customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	Samsung
Model Number	LS27DG500ENXZA
Screen Size	27 Inches
Screen Resolution	2560 x 1440 (QHD)
Max Screen Resolution	2560 x 1440 Pixels

Feature	Specification
Refresh Rate	180Hz
Response Time	1ms (GtG)
Panel Type	Fast IPS
HDR Support	VESA DisplayHDR 400
Adaptive Sync	G-Sync Compatible, AMD FreeSync
Viewing Angle	178° (Horizontal/Vertical)
Aspect Ratio	16:9
Color	Black
Product Dimensions (LxWxH)	10.4 x 24.1 x 21.7 inches
Item Weight	14.1 pounds
Voltage	240 Volts

9. WARRANTY AND SUPPORT

Your SAMSUNG Odyssey G50D Series Gaming Monitor is covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Samsung support website.

For technical assistance, troubleshooting, or to register your product, please visit the Samsung Support website or contact their customer service. You can find contact information and support resources at www.samsung.com/us/support/.