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LG OLED77GX

LG OLED GX Series 77” 4K Smart TV (OLED77GXPUA, 2020) Instruction Manual

Model: OLED77GXPUA

Information | Setup | Operating | Introduction | Maintenance | Safety | Troubleshooting | Specifications | Warranty & Support

1. Introduction

This manual provides essential instructions for the safe and efficient use of your LG OLED GX Series 77” 4K Smart TV (Model: OLED77GXPUA). Please read this manual thoroughly before operating your television and retain it for future reference.
The LG OLED GX TV features a Gallery Design, self-lighting OLED pixels for perfect black and intense color, an α9 Gen 3 AI Processor 4K, Dolby Vision IQ, Dolby Atmos, webOS, and ThinQ AI with built-in Google Assistant and Alexa.

2. Safety Information

- **Professional Installation Recommended:** For wall-mounting, professional installation is highly recommended. Ensure anchors supplied are appropriate for your wall type. Consult a professional if necessary.
- **Handling Large TVs:** Due to its size and weight, the 77-inch TV requires at least two strong individuals for safe handling and installation.
- **Ventilation:** Ensure adequate ventilation around the TV. Do not block ventilation openings.
- **Power Cord:** Do not place heavy objects on the power cord. Avoid damaging the power cord.
- **Liquid and Moisture:** Do not expose the TV to rain or moisture. Do not place objects filled with liquids on the TV.
- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry cloth. Avoid liquid cleaners.

3. Setup

3.1 Unboxing

Carefully remove the TV from its packaging. It is recommended to have at least two people for this process due to the TV's size and weight. Place the TV face down on a soft, flat surface to remove the bottom of the box and screen protector.

▶ **Watch video online**
LG Gallery TV Flush Mount Using Recessed TV Box

Video: Unboxing and initial setup steps for the LG Gallery TV, demonstrating how to safely remove the TV from its packaging.

3.2 Wall Mounting

The LG OLED GX is designed for flush wall mounting. Professional installation is highly recommended. Use the provided paper template to mark TV placement and stud locations on the wall. Ensure the wall mount bracket is level before drilling pilot holes and securing it to the wall. If using a recessed box, ensure it is properly sized and positioned to accommodate cables.

▶ **Watch video online**
LG Gallery TV Flush Mount Using Recessed TV Box

Video: Detailed guide on installing the LG Gallery TV flush mount using a recessed box, including measurements and securing the bracket.

▶ **Watch video online**
LG Gallery TV Raceway Mount Installation Guide

Video: Installation guide for the LG Gallery TV Raceway Mount, showing how to conceal cables for a clean, flush-mounted look.

▶ **Watch video online**
LG OLED GX Installation Options

Video: Overview of various installation options for the LG OLED GX, including flush mount and stand options.



Image: The LG OLED GX TV seamlessly flush-mounted on a wall, showcasing its gallery design.

3.3 Connecting Cables

Connect all necessary cables (HDMI, LAN, Optical, etc.) to the appropriate ports on the back of the TV. The LG OLED GX features four HDMI inputs (HDMI 4K@120Hz IN), with HDMI 2 supporting eARC/ARC. Use cable holders to keep cables organized and untangled, especially for flush mounting.



Image: A detailed view of the HDMI, LAN, Antenna/Cable In, Optical Digital Audio Out, and Audio Out/Headphone ports on the back of the LG OLED GX TV.



Image: A detailed view of the three USB In ports and the RS-232C Input (Mini Jack) on the side of the LG OLED GX TV.

3.4 Initial Setup

After connecting all cables and mounting the TV, power it on. Follow the on-screen prompts to select your language, country, and time zone. The TV will guide you through connecting to your home network and detecting connected devices. You can enable AI Picture Pro and AI Sound Pro during this process for enhanced viewing and audio.

4. Operating

4.1 Magic Remote Usage

The LG Magic Remote allows for intuitive control of your TV. Use its pointing, clicking, and scrolling functions to navigate webOS. Dedicated buttons provide quick access to popular streaming services like Netflix and Prime Video. The built-in microphone enables voice commands for searching content, launching apps, and controlling smart home devices.

▶ **Watch video online**
LG Magic Remote

Video: A demonstration of the LG Magic Remote's features, including pointing, clicking, scrolling, voice commands, and quick access buttons.



Image: The LG Magic Remote, featuring a central scroll wheel, number pad, dedicated streaming service buttons, and a microphone button for voice control.

4.2 webOS Smart TV Features

webOS is your portal to a world of entertainment. Easily stream content from various apps, search for information, and manage your smart home devices. The Home Dashboard provides a centralized view of all connected devices and settings. LG Channels offers free access to over 180 IP streaming channels.

▶ **Watch video online**
What is LG webOS?

Video: An explanation of LG's webOS platform, highlighting its user-friendly interface and access to various streaming services and smart features.



Image: The LG OLED GX TV screen showing the webOS launcher bar at the bottom, with icons for various streaming apps and LG Content Store.

4.3 Voice Control

Your LG OLED GX TV comes with Google Assistant and Alexa built-in. Use hands-free voice control or the Magic Remote's microphone to search for content, control TV functions, and manage other compatible smart devices in your home.

4.4 Picture and Sound Settings

- **α9 Gen 3 AI Processor 4K:** Enhances picture and sound quality through AI and deep learning, upscaling lower resolution content to near 4K.
- **Dolby Vision IQ and Dolby Atmos:** Dolby Vision IQ automatically adjusts picture settings based on ambient lighting and content genre. Dolby Atmos provides multi-dimensional surround sound.
- **Filmmaker Mode™:** Preserves the director's cinematic vision by disabling motion smoothing and other post-processing effects.
- **OLED Motion Pro:** Advanced motion handling for fast-moving scenes in sports and action.

4.5 Gaming Features

Experience immersive gaming with NVIDIA G-SYNC compatibility, FreeSync, Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM), and Enhanced Audio Return Channel (eARC). The TV offers a low input lag and fast 1ms response time for smooth, synchronized graphics.

4.6 Connectivity

The TV supports Wi-Fi Certified 802.11ac and Bluetooth Version 5.0. It includes 4 HDMI inputs (HDMI 4K@120Hz IN), 3 USB 2.0 ports, 1 RF Connection Input, 1 AV Input, 1 Ethernet Input, 1 RS-232C Input, 1 Digital Audio Output (Optical), and 1 Headphone Out. WiSA Ready allows for wireless surround sound with compatible LG Bluetooth speakers (dongle sold separately).

5. Maintenance

- **Screen Cleaning:** Gently wipe the screen with a soft, dry microfiber cloth. For stubborn smudges, lightly dampen the cloth with distilled water. Avoid harsh chemicals or abrasive materials.
- **Frame Cleaning:** Use a soft, dry cloth to clean the TV frame.
- **Remote Control:** Wipe the remote with a dry cloth. Replace batteries as needed.
- **Ventilation:** Ensure the TV's ventilation openings are clear of dust and debris to prevent overheating.

6. Troubleshooting

- **No Power:** Check if the power cable is securely connected to the TV and the power outlet. Ensure the outlet is functional.
- **No Picture/Sound:** Verify that all external devices (cable box, Blu-ray player) are properly connected and powered on. Check input source selection on the TV.
- **Remote Control Not Working:** Ensure batteries are correctly inserted and not depleted. Point the remote directly at the TV.
- **Network Connection Issues:** Check your Wi-Fi router and internet connection. Try restarting both the TV and the router.
- **Image Quality Issues:** Adjust picture settings (brightness, contrast, sharpness). Ensure the content source is high quality.

7. Specifications

Display Type	OLED
Display Resolution	4K Ultra HD (3,840 x 2,160)
Refresh Rate	120Hz (Native)
Picture Processor	α9 Gen 3 AI Processor 4K
HDR (High Dynamic Range)	Cinema HDR (Dolby Vision®, HDR10, HLG), Dolby Vision IQ
Operating System	webOS

Voice Assistants	Google Assistant Built-in, Alexa Built-in
Speaker System	4.2 Channel, 60W Output
HDMI Input (HDCP 2.2)	4 (rear)
USB Ports (v 2.0)	3 (side)
TV Dimensions without Stand (WxHxD)	67.8" x 39" x 0.9"
TV Weight without Stand	86.9 lbs
VESA Mounting (W x H)	300 x 300

8. Warranty and Support

For full details on the limited warranty, please refer to the support tab on the product page or your purchase documentation. LG offers customer support for product assistance.
Protection plans are available for purchase separately, such as a 4-Year Protection Plan.

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