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LG LB650

LG Smart TV LB650 AI 32-inch HD User Manual

Model: 32LB650BPSA

1. Introduction

This manual provides essential information for the safe and efficient use of your LG Smart TV LB650 AI 32-inch HD. Please read this manual thoroughly before operating your TV and retain it for future reference. This television features integrated AI Search, Google Gemini, Dynamic Tone Mapping, and Resolution Upscaler for an enhanced viewing experience.

2. Important Safety Information

Always follow these basic safety precautions to reduce the risk of fire, electric shock, and injury:

- **Power Source:** Connect the TV to an AC 100-240V, 50/60Hz power outlet. Do not overload wall outlets.
- **Ventilation:** Ensure proper ventilation. Do not block ventilation openings. Maintain a minimum distance of 10 cm (4 inches) from walls and other objects.
- **Water and Moisture:** Do not expose the TV to rain or moisture. Do not place objects filled with liquids, such as vases, on the TV.
- **Cleaning:** Unplug the TV from the wall outlet before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Mounting:** When mounting the TV on a wall, ensure the wall mount is securely installed and capable of supporting the TV's weight.
- **Children:** Do not allow children to climb on the TV or stand.
- **Lightning:** During a lightning storm or when left unattended for long periods, unplug the TV from the wall outlet and disconnect the antenna.

3. Package Contents

Please check that all items are included in your product box:

- LG Smart TV LB650 AI 32-inch HD
- Remote Control (Infrared)
- AAA Batteries (x2) for Remote Control
- Power Cord
- TV Stand (2 pieces)
- Screws for Stand Assembly
- User Manual (this document)

4. Product Overview

4.1 Front View



Image: Front view of the LG Smart TV LB650 AI, showcasing the 32-inch HD display with slim bezels and the LG logo centered at the bottom. The screen displays colorful cupcakes.

4.2 Dimensions



Image: Technical diagram showing the dimensions of the LG Smart TV LB650 AI. Front view dimensions are 719mm width, 430mm height (without stand), and 589mm base width. Side view dimensions are 71mm depth (top), 180mm depth (with stand), and 456mm height (with stand). All measurements are in millimeters.

4.3 Side View



Image: Side profile of the LG Smart TV LB650 AI, illustrating its slim design and the depth of the screen and stand.

4.4 Top View



Image: Top view of the LG Smart TV LB650 AI, showing the curvature of the back panel and the placement of the stand attachments.

4.5 Rear Panel and Ports

The rear panel of your TV houses various input and output ports for connecting external devices. Specific port locations may vary slightly.

- **HDMI Ports (x2):** For connecting high-definition devices like Blu-ray players, game consoles, or set-top boxes.
- **USB 2.0 Port (x1):** For connecting USB storage devices to play media files or for software updates.
- **Antenna/Cable Input:** For connecting an antenna or cable TV signal.
- **LAN Port (Ethernet):** For a wired internet connection.
- **Optical Digital Audio Out:** For connecting to an external audio system.
- **Power Input:** For connecting the power cord.

5. Setup

5.1 Attaching the Stand

1. Place the TV screen-down on a soft, flat surface to prevent scratches.
2. Align each stand piece with the corresponding slots on the bottom of the TV.
3. Secure each stand piece with the provided screws. Ensure they are tightened firmly.

5.2 Wall Mounting (Optional)

This TV is compatible with VESA standard wall mounts (100 x 100 mm). For wall mounting, remove the stand first. Refer to the wall mount instructions for proper installation. LG recommends professional installation for wall mounting.

5.3 Connecting Power

Plug the power cord into the TV's power input, then plug the other end into a grounded AC 100-240V, 50/60Hz wall outlet.

5.4 Initial Setup Wizard

The first time you turn on your TV, the Initial Setup Wizard will guide you through basic settings:

- **Language Selection:** Choose your preferred language (Portuguese, English, Spanish).
- **Country Selection:** Select your country.
- **Network Connection:** Connect to your Wi-Fi network or use a wired Ethernet connection.
- **Tuning Channels:** Scan for available digital TV channels.
- **Terms and Conditions:** Accept the user agreements to access Smart TV features.

6. Operating Your TV

6.1 Remote Control Functions

Your TV comes with a standard infrared remote control. Insert two AAA batteries (included) into the remote control, ensuring correct polarity.

- **Power Button:** Turns the TV on or off.
- **Number Buttons:** Select channels directly.
- **Volume Up/Down:** Adjusts the volume level.
- **Channel Up/Down:** Changes channels sequentially.
- **Home Button:** Accesses the webOS Smart TV launcher.
- **Navigation Buttons (Up/Down/Left/Right):** Navigate menus and options.
- **OK/Enter Button:** Confirms selections.
- **Back Button:** Returns to the previous screen.
- **Input Button:** Selects input sources (HDMI, USB, TV).
- **Quick Access Buttons:** Dedicated buttons for popular streaming services (e.g., Netflix, Prime Video, Disney+, YouTube, Apple TV).

6.2 Basic TV Functions

- **Turning On/Off:** Press the Power button on the remote control.
- **Changing Channels:** Use the Channel Up/Down buttons or enter the channel number directly.
- **Adjusting Volume:** Use the Volume Up/Down buttons.
- **Selecting Input Source:** Press the Input button and select the desired source (e.g., HDMI 1, USB).

6.3 Smart TV Features (webOS 26)

Your LG Smart TV runs on the webOS 26 operating system, providing a user-friendly interface for accessing apps and content.



Image: An award badge from AVForums, recognizing LG WebOS 25 as "Editor's Choice" for "Best Smart TV System 2025/2026". This highlights the system's acclaimed performance and user experience.

- **Home Dashboard:** Press the Home button to access the launcher bar, which displays your favorite apps, recent inputs, and connected devices.
- **App Store:** Download and install additional applications from the LG Content Store.
- **Supported Internet Services:** Apple TV, Disney+, Netflix, Prime Video, YouTube.

6.4 AI Features and Picture/Sound Enhancement

The LG LB650 AI TV integrates advanced artificial intelligence for an optimized viewing and listening experience.

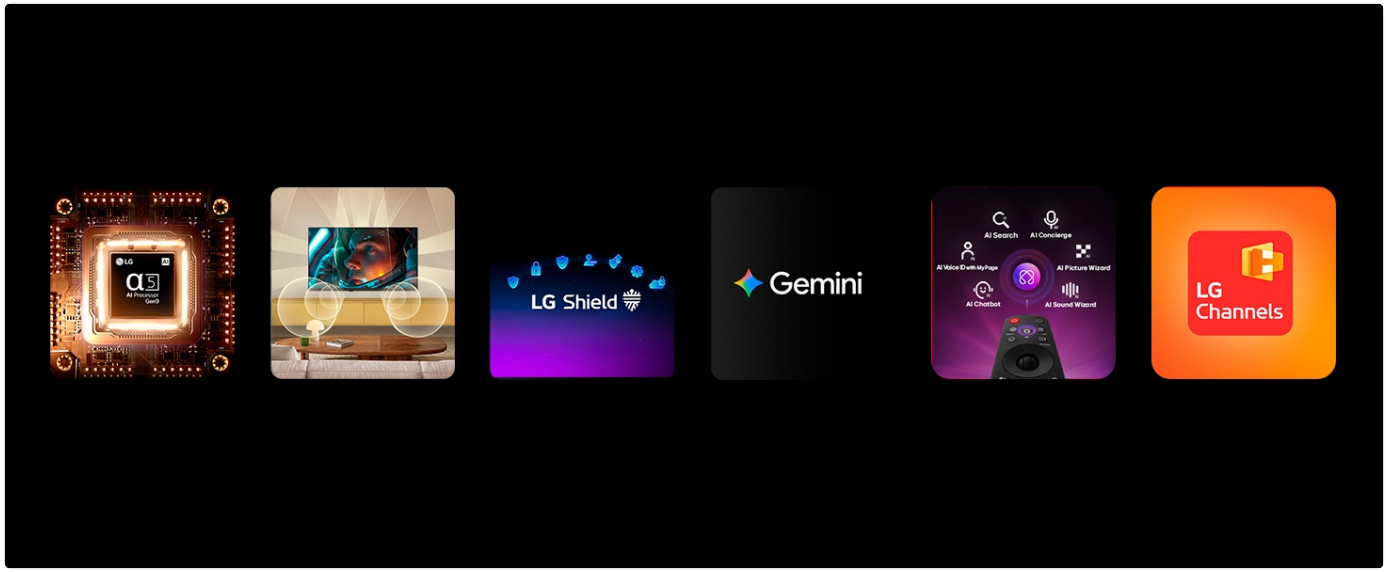


Image: A visual overview of key LG AI features. From left to right: Alpha 5 AI Processor Gen9, AI Sound Pro, LG Shield security, Google Gemini integration, AI Concierge features (AI Search, AI Voice ID, AI Picture Wizard, AI Sound Wizard, AI Chatbot), and LG Channels.

- **AI Search & Google Gemini:** Use voice commands or text input to search for content, information, and control smart home devices.
- **AI Processor Gen9:** The α5 AI Processor Gen9 enhances picture and sound quality.

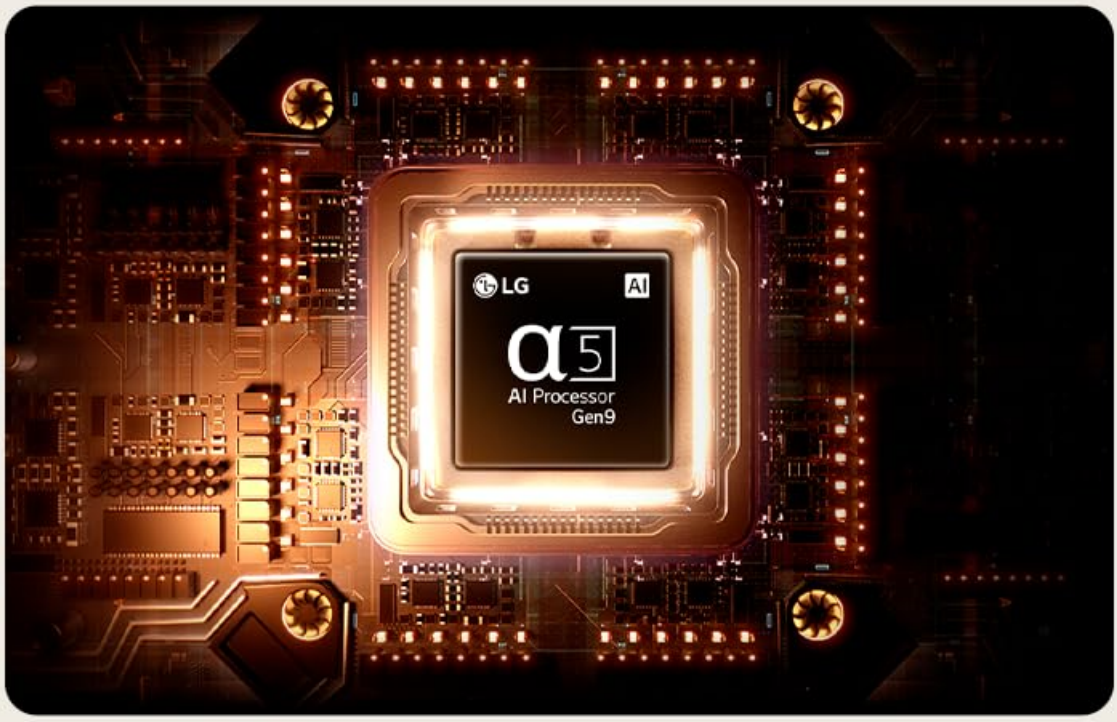


Image: A detailed view of the LG α5 AI Processor Gen9 chip, highlighting its central role in the TV's intelligent processing capabilities.

- **Dynamic Tone Mapping:** Optimizes HDR content scene by scene for improved contrast and detail. Supports HDR10 and HLG formats.

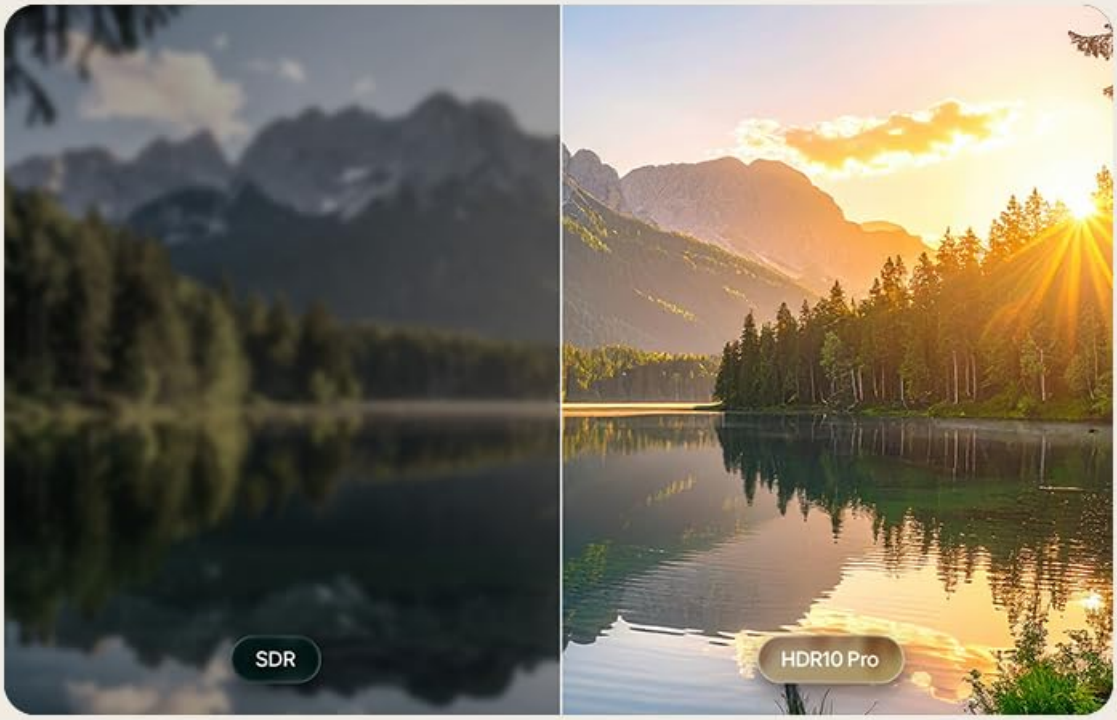


Image: A split-screen comparison demonstrating the visual difference between SDR (Standard Dynamic Range) and HDR10 Pro. The HDR10 Pro side shows significantly more detail, vibrant colors, and better contrast in a landscape scene with mountains and a lake, especially in bright areas like the sky.

- **Resolution Upscaler:** Enhances the quality of lower-resolution content to near-HD levels.
- **AI Sound:** Optimizes audio based on content type and room acoustics for a more immersive sound experience.



Image: A visual representation of AI Sound technology. Sound waves are depicted emanating from the TV and surrounding a person sitting on a sofa, illustrating how AI Sound creates an immersive audio experience tailored to the viewing environment.

- **AI Concierge:** Provides personalized recommendations and assistance.

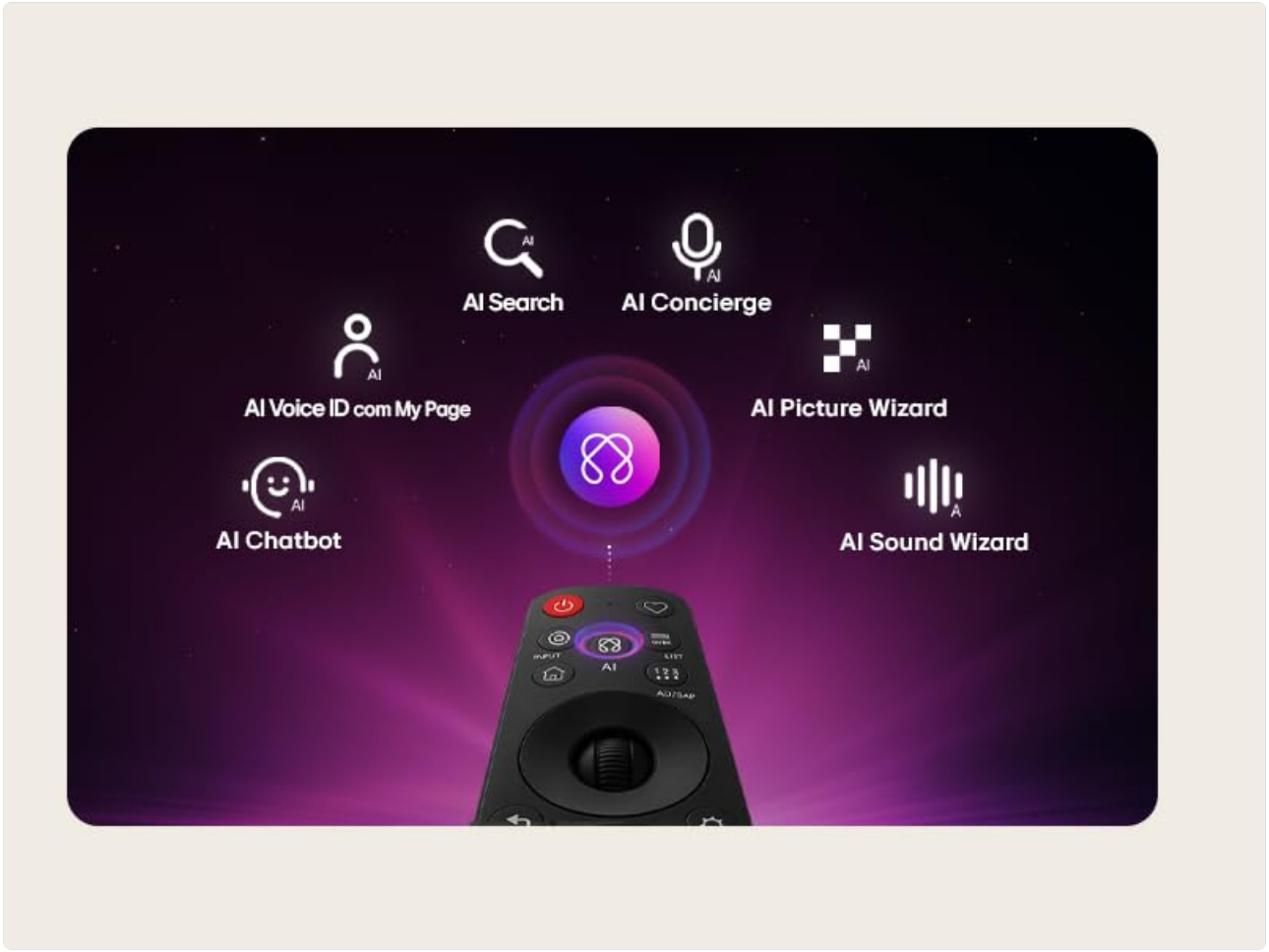


Image: An illustration of the LG Magic Remote surrounded by various AI Concierge features: AI Search, AI Concierge, AI Voice ID with My Page, AI Picture Wizard, AI Chatbot, and AI Sound Wizard. This shows the range of intelligent assistance available through the remote.

6.5 Connectivity

- **HDMI:** Connect up to two HDMI devices for high-quality audio and video.
- **USB:** Play media files (photos, music, videos) from a USB storage device.
- **Bluetooth 5.3:** Connect compatible Bluetooth devices such as soundbars, headphones, or game controllers.
- **Wi-Fi:** Connect to your home wireless network for internet access and Smart TV features.
- **Screen Mirroring (Miracast, SmartShare):** Share content from your compatible smartphone or tablet to the TV screen.

7. Maintenance

- **Cleaning the Screen:** Gently wipe the screen with a soft, dry, lint-free cloth. For stubborn marks, slightly dampen the cloth with water or a specialized screen cleaner (apply to cloth, not directly to screen).
- **Cleaning the Cabinet:** Wipe the TV cabinet with a soft, dry cloth.
- **Do Not Use:** Avoid using abrasive cleaners, waxes, or solvents (alcohol, benzene, thinners) as they can damage the TV's finish.
- **Dusting:** Regularly dust the ventilation openings to prevent overheating.

8. Troubleshooting

Problem	Possible Cause / Solution
No power	Check if the power cord is securely plugged into the TV and the wall outlet. Test the outlet with another device.
No picture, but sound is present	Check the input source. Ensure the connected device is turned on and functioning correctly.
No sound, but picture is present	Check the volume level. Ensure Mute is not activated. Check audio output settings if using external speakers.
Remote control not working	Check battery polarity and replace batteries if necessary. Ensure there are no obstructions between the remote and the TV's IR sensor.
Cannot connect to Wi-Fi	Ensure your Wi-Fi router is on and working. Re-enter the Wi-Fi password. Try restarting the TV and router.
Smart features are slow or unresponsive	Check your internet connection speed. Try restarting the TV. Ensure the TV's software is up to date.

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

9. Specifications

Model Name	Smart TV LG LB650 AI HD 32 polegadas 2026
Model Number	32LB650BPSA
Screen Size	32 Inches
Display Technology	HD LED
Resolution	768p (1366 Pixels)
Refresh Rate	60Hz Native
HDR Support	HDR10 / HLG
Operating System	webOS 26
Processor	α5 AI Processor Gen9
Special Features	AI Search, Google Gemini, Dynamic Tone Mapping, Resolution Upscaler
Connectivity	Wi-Fi, Bluetooth 5.3, 2x HDMI, 1x USB 2.0, Ethernet (LAN)
Audio Output	10 watts (2.0 Channel), AI Sound, Dolby Audio
Power Supply	AC 100-240V, 50/60Hz

Energy Efficiency	A+
Dimensions (W x H x D) without stand	Approx. 71 cm x 43 cm x 7.1 cm
Dimensions (W x H x D) with stand	Approx. 71 cm x 45.6 cm x 18 cm
Weight without stand	3.5 kg
Weight with stand	3.6 kg
VESA Mount Compatible	100 x 100 mm
Languages Supported	Portuguese, English, Spanish

10. Warranty and Support

10.1 Product Warranty

This LG Smart TV LB650 AI 32-inch HD comes with a**1-year manufacturer's warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized repairs, or acts of nature.

10.2 Customer Support

For technical assistance, service requests, or further information, please contact LG Customer Support. You can find contact details on the official LG website for your region or refer to the warranty card included with your product.
Before contacting support, please have your TV model number (32LB650BPSA) and serial number ready.

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