



77 Inch LG OLED AI B6 4K Smart TV
2026

OLED77B6GUA

Key Features

- Perfect Black and Perfect Color ensures deeper contrast and vivid, accurate color in any light.
- Up to 120Hz in 4K with G-SYNC compatibility and FreeSync Premium for smoother, winning gameplay
- Award-winning webOS brings advanced AI experiences—powered by Google Gemini and Microsoft Copilot



Dimensions: mm

All Spec

DIMENSIONS AND WEIGHTS

TV Weight with Stand	Packaging Dimensions (WxHxD)	Packaging Weight (Overseas)	TV Dimensions without Stand (WxHxD)
23.3	1839 x 1130 x 200	33.3	1719 x 989 x 50.9
TV Dimensions with Stand (WxHxD)	TV Stand (WxD)	TV Weight without Stand	VESA Mounting (WxH)
1719 x 1057 x 268	1390 x 268	22.9	300 x 200

ACCESSIBILITY

Gray Scale	High Contrast	Invert Colors
Yes	Yes	Yes

ACCESSORIES INCLUDED

Power Cable	Remote
Yes (Attached)	AI Magic Remote MR26

AUDIO

AI Sound	Adaptive Acoustic Tuning	Audio Codec	Audio Output
α8 AI Sound Pro (Virtual 11.1.2 Up-mix)	Yes	AC4, AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, apt-X (Refer to manual)	20W
Clear Voice Pro	Dolby Atmos	LG Sound Sync	Simultaneous Audio Output
Yes (AI Object Remastering Pro)	Yes	Yes	Yes
Sound Mode Share	Speaker Direction	Speaker System	WOW Orchestra
Yes	Down Firing	2.0 channel	Yes

BASIC INFORMATION

Year of release
Definable Spec Only in LG.COM

BROADCASTING

Analog TV Reception	Digital TV Reception
Yes	ATSC1.0 (Terrestrial), QAM (Cable)

CONNECTIVITY

Bluetooth Support	Ethernet Input	HDMI Audio Return Channel	HDMI Input
Yes (v 5.3)	1ea	eARC (HDMI 2)	4ea (supports 4K 120Hz, eARC, VRR, ALLM, QMS, QFT)

RF Input (Antenna/Cable) 1ea	Simplink (HDMI CEC) Yes	SPDIF (Optical Digital Audio Out) 1ea	USB Input 2ea (v 2.0)
Wi-Fi Yes (Wi-Fi 5)			

GAMING

Game Optimizer Yes (Game Dashboard)	ALLM (Auto Low Latency Mode) Yes	Dolby Vision for Gaming (4K 120Hz) Yes	FreeSync Compatible (AMD) Yes
G-Sync Compatible (Nvidia) Yes	HGIG Mode Yes	Response Time Less than 0.1ms	120Hz Native (VRR 120Hz) 120Hz Native (VRR 120Hz)

PICTURE (DISPLAY)

Display Resolution 4K Ultra HD (3,840 x 2,160)	Display Type 4K OLED	Refresh Rate 120Hz Native (VRR 120Hz)	Wide Color Gamut Perfect Color
--	-------------------------	---	-----------------------------------

PICTURE (PROCESSING)

AI Upscaling α8 AI Super Upscaling 4K	AI Genre Selection Yes (SDR/HDR)	AI HDR Remastering Yes	AI Picture Pro Yes
Auto Brightness Control Yes	Auto Calibration Yes	Dimming Technology Pixel Dimming	Dynamic Tone Mapping Yes (Dynamic Tone Mapping Pro)
FILMMAKER MODE™ Yes	HDR (High Dynamic Range) Dolby Vision / HDR10 / HLG	HFR (High Frame Rate) 4K 120 fps (HDMI)	Motion OLED Motion
Picture Mode 9 modes	Picture Processor α8 AI Processor 4K Gen3	QFT (Quick Frame Transport) Yes	QMS (Quick Media Switching) Yes

POWER

Power Supply (Voltage, Hz) AC 120V, 50/60Hz	Standby Power Consumption Under 0.5W
---	--

SMART TV

AI Chatbot Yes	AI Magic Remote Built-In	AI Voice ID Yes	Always Ready Yes
Full Web Browser Yes	Google Cast Yes	Yes (LG ThinQ) Yes (LG ThinQ)	Intelligent Voice Recognition Yes
LG Channels Yes	LG Shield Yes	Multi View Yes	My Page Yes
Operating System (OS) webOS 26	Smartphone Remote App Yes (LG ThinQ)	USB Camera Compatible Yes	Works with Apple Airplay Yes
Works with Apple Home Yes			