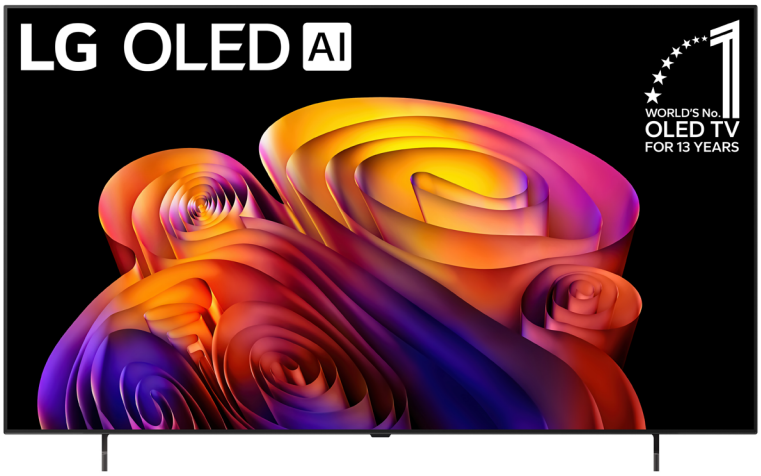
LG OLED AI B6E 4K Smart TV 2026

B6E Series



77" | 65" | 55"

* Class size: See below for details.

Step into LG OLED Picture Quality with Perfect Black and Vivid Color

The unmatched beauty of self-lit OLED pixels in the LG OLED B6E is more than meets the eye. Keep pace with the action with a native 120Hz refresh rate for smoother movement whether you're gaming or watching sports. Entertainment extras like Dolby Vision®,* Dolby Atmos®* and FILMMAKER MODE™ give you the big-picture experience straight from your couch.

*Dolby, Dolby Atmos and the double-D symbol are registered trademarks of Dolby Laboratories.

- Prefect Black & Vivid Color
- α8 AI Processor 4K Gen3
- Dolby Vision®, Dolby Atmos® & FILMMAKER MODE™
- Ultimate Gameplay
- webOS

Key Benefits

PREFECT BLACK & VIVID COLOR

LG's OLED technology creates an incredible watching experience and stellar picture quality with Perfect Black and Vivid Color on over 8.3 million self-lit smart pixels, even in bright rooms.

*Verified by UL Solutions for Perfect Black technology delivering black levels ≤0.24nit up to 500lux

REFINED PICTURE, POWERED BY AI

Enjoy outstanding picture, which uses AI to detect what you're watching and automatically improves the picture and sound quality to your personal preferences.

BRING HOME THE MAGIC OF HOME CINEMA

Experience the magic of the big screen right from your couch. Loaded with Dolby Vision® for extraordinary color, contrast and brightness, plus Dolby Atmos®* for sound you can feel all around you. Land in the center of the action with FILMMAKER MODE™ with Ambient Light Technology , allowing you to see films just as the director intended.

*Dolby, Dolby Vision, Dolby Atmos, and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation. Manufactured under license from Dolby Laboratories. Confidential unpublished works. Copyright © 2012–2026 Dolby Laboratories. All rights reserved.

GAME WITH THE POWER OF LG OLED

This LG OLED evo Series comes with everything you need to win. Experience crisp, smooth imagery from a 0.1ms response time and up to 120Hz refresh rate* to let you game at blinding speed without any blurring or tearing to keep up with the fastest games. All LG OLED TVs have NVIDIA G-Sync, AMD FreeSync Premium and VRR to further improve gaming quality. Whether you game on consoles or on the cloud,** the LG Game Dashboard and Game Optimizer put all the control at your fingertips.

*Subscription and compatible gaming controller are required.

EXPERIENCE LG'S AWARD-WINNING SMART TV PLATFORM POWERED BY AI

Powered by Google Gemini & Microsoft Copilot, LG's Smart TV platform, webOS 26, delivers an AI experience which makes your TV smarter & more personalized. With just your voice, the TV brings up your customized screen, recommends what you'll love next & adjusts picture & sound to match your preferences. It helps solve problems before you ask, generates personalized content, and provides real-time sports stats. Plus, LG Shield helps provide protection against malware, viruses & other threats.*

*Internet connection and subscriptions to streaming services are required; number of LG Channels and movies & shows (on-demand) subject to change. Software update will automatically download for up to 5 years. Consumers who disable "auto-update" will receive a pop-up notification to accept or deny software update. LG account required to access our network-based smart services.

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LG OLED AI B6E 4K Smart TV 2026

B6E Series

Specifications

PICTURE (PANEL)

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

PICTURE (PROCESSING)

Picture Processor	α8 AI Processor 4K Gen3
AI Picture	Yes
AI Upscaling	α8 AI Super Upscaling 4K
AI Genre Selection	Yes (SDR/HDR)
AI Brightness Control	Yes
Dynamic Tone Mapping	Yes (Dynamic Tone Mapping Pro)
HDR (High Dynamic Range)	Dolby Vision / HDR10 / HLG
Dolby Vision	Yes
FILMMAKER MODE™	Yes
Dimming Technology	Pixel Dimming
Motion	OLED Motion

GAMING

Game Optimizer	Yes (Game Dashboard)
G-Sync Compatible (Nvidia)	Yes
FreeSync Compatible (AMD)	Yes
VRR (Variable Refresh Rate)	Yes (Up tp 120Hz)
ALLM (Auto Low Latency Mode)	Yes
HGIG Mode	Yes
Response Time	Less than 0.1ms

SMART TV

Operating System (OS)	webOS 26
ThinQ	Yes
Intelligent Voice Recognition	Yes (with LG ThinQ app.)
Magic Remote Control	Ready (requires AI Magic Remote)
Home Hub	Yes (Google Home, LG ThinQ(Homey)-USA, LG ThinQ-Canada))
Works with Hey Google	Yes
Works with Apple Home	Yes
Works with Apple Airplay	Yes
Google Cast built-in	Yes
App Store	Yes (App)
Full Web Browser	Yes
LG Channels	Yes
Multi View	Yes
Always Ready	Yes
USB Camera Compatible	Yes
Home Office	Yes
Games Service	Yes
Music Service	Yes
Sports	Yes
Matter	Yes
AI Concierge	Yes
AI Chatbot	Yes
AI Voice ID	Yes
Copilot	Yes
Generative AI Image	Yes (US only)
Content Partners	Netflix, HBO Max, Disney+, YouTube, Prime Video, ESPN, Apple TV and more
LG Link	Yes
LG Shield	Yes

AUDIO

Speaker System	2.0 channel
Speaker Direction	Down Firing
Dolby Atmos	Yes
AI Sound	α8 AI Sound Pro (Virtual 11.1.2 Up-mix)
Clear Voice Pro	Yes (AI Object Remastering Pro)
Audio Codec	AC4, AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X (Refer to manual)
LG Sound Sync	Yes
Sound Mode Share	Yes
Bluetooth Surround Ready	Yes (1 Way Playback)
WOW Orchestra	Yes
Simultaneous Audio Output	Yes

CONNECTIVITY

Wi-Fi Standard	Yes (Wi-Fi 5)
Bluetooth Support	Yes (v 5.3)
IP Control	Yes
Simplink (HDMI CEC)	Yes
TV Tuner	ATSC1.0 (Terrestrial), QAM (Cable)
Smartphone Remote App	Yes (LG ThinQ)
HDMI Input	4ea (supports 4K 120Hz, eARC, VRR, ALLM, QMS, QFT)
HDMI Audio Return Channel	eARC (HDMI 2)
USB Input	1ea
RF Input (Antenna/Cable)	1ea
Ethernet Input	1ea
RS-232C Input (Min Jack)	Yes
SPDIF (Optical Digital Audio Out)	1ea

POWER

Power Supply (Voltage, Hz)	AC 120V, 50/60Hz
Standby Power Consumption	Under 0.5W
Power Consumption	77": 160.9 W 65": 122 W 55": 92.8 W
Annual Power Consumption	77": 296 kWh/y 65": 225 kWh/y 55": 172 kWh/y
Energy saving Mode	Yes

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Specifications

OLED77B6EUA.AUS (77.8" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	67.7" x 41.6" x 10.6"
TV Dimensions without Stand (WxHxD)	67.7" x 38.9" x 2.0"
Shipping Dimensions (WxHxD)	72.4" x 44.5" x 7.9"
Stand Width	54.7"
TV Weight with Stand	51.4 lbs
TV Weight without Stand	50.5 lbs
Shipping Weight	73.4 lbs
VESA Mounting (W x H)	300 x 200
UPC	195174141397

OLED65B6EUA.AUS (65.3" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	57.0" x 35.4" x 8.6"
TV Dimensions without Stand (WxHxD)	57.0" x 32.8" x 1.8"
Shipping Dimensions (WxHxD)	63.0" x 37.4" x 6.8"
Stand Width	42.1"
TV Weight with Stand	38.1 lbs
TV Weight without Stand	37.7 lbs
Shipping Weight	53.8 lbs
VESA Mounting (W x H)	300 x 200
UPC	195174141434

OLED55B6EUA.AUS (55.2" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	48.3" x 30.6" x 8.6"
TV Dimensions without Stand (WxHxD)	48.3" x 27.9" x 1.8"
Shipping Dimensions (WxHxD)	53.5" x 31.9" x 6.8"
Stand Width	42.1"
TV Weight with Stand	32.0 lbs
TV Weight without Stand	31.5 lbs
Shipping Weight	43.0 lbs
VESA Mounting (W x H)	300 x 200
UPC	195174140895

ACCESSORIES INCLUDED	
Stand	Yes
Remote	Standard Remote
Remote Control Battery	Yes (AAA x 2EA)
Power Cable	Yes (Attached)
Quick Start Guide	Yes
E-Manual	Yes

OPTIONAL ACCESSORIES (SOLD SEPARATELY)	
Stand	-
Wall Mount	OLW480B
Floor Stand	-

WARRANTY	
Limited Warranty	1 Year Parts & Labor

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