



Key Benefits

WORLD'S NO. 1 OLED TV BRAND

Celebrating 12 years of perfecting award-winning OLED TV technology.*

*Source: Omdia. Unit shipments, 2013-2024. Results are not an endorsement of LG Electronics. Any reliance on these results is at the third-party's own risk. Visit <https://www.omnia.com/> for more details.

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.

PERFECT BLACK & PERFECT COLOR

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

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™, allowing you to see films just as the director intended.

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GAME WITH THE POWER OF LG OLED

Packed with gaming features, this LG OLED 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. Four HDMI 2.1 inputs allow you to plug in all the devices you need. 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

77"

* Class size: See below for details.

Discover the next level of picture quality and technology.

The unmatched beauty of self-lit OLED pixels in the LG OLED B5 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.

- World's No. 1 OLED
- Alpha 8 AI Processor Gen2
- Perfect Black & Perfect Color (8.3 million self-lit pixels)
- Dolby Vision®, Dolby Atmos® & FILMMAKER MODE™
- Ultimate Game Play (120Hz)



Specifications

PICTURE (PANEL)

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

PICTURE (PROCESSING)

Picture Processor	α8 AI Processor 4K Gen2
AI Picture	Yes
AI Upscaling	α8 AI Super Upscaling 4K
AI Genre Selection	Yes (SDR/HDR)
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 to 120Hz)
ALLM (Auto Low Latency Mode)	Yes
HGIG Mode	Yes
Response Time	Less than 0.1ms

SMART TV

Operating System (OS)	webOS 25
ThinQ	Yes
Intelligent Voice Recognition	Yes
Magic Remote Control	Built-In
Home Hub	Yes
Amazon Alexa (Built-in)	Yes (Built-in)
Works with Amazon Alexa	Yes
Works with Hey Google	Yes
Works with Apple Home	Yes
Works with Apple Airplay2	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
Game Service	Yes
Music Service	Yes
Sports	Yes
Matter	Yes

AI Concierge	Yes
AI Search	Yes
AI Chatbot	Yes
Voice ID	Yes
Copilot	Yes
Generative AI	Yes
Content Partners	Netflix, Max, Disney+, YouTube, Prime Video, ESPN, Apple TV, Sling TV and more

AUDIO

Speaker System	2.0 channel
Speaker Direction	Down Firing
Dolby Atmos	Yes
AI Sound	α8 AI Sound Pro (Virtual 9.1.2 Up-mix)
DTS:X (by-pass only)	Yes
Clear Voice Pro	Yes (Auto Volume Leveling)
WISA Ready	Yes (Up to 2.1 Channel)
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 (2 Way Playback)
WOW Orchestra	Yes
Simultaneous Audio Output	Yes

CONNECTIVITY

Wi-Fi Standard	Yes (Wi-Fi 6E)
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 (4 port))
HDMI Audio Return Channel	eARC (HDMI 3)
USB Input	2ea (v 2.0)
RF Input (Antenna/Cable)	1ea
Ethernet Input	1ea
RS-232C Input (Min Jack)	Yes
SPDIF (Optical Digital Audio Out)	1ea
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POWER

Power Supply (Voltage, Hz)	AC 120V, 50/60Hz
Standby Power Consumption	Under 0.5W
Power Consumption	187 W
Annual Power Consumption	344 kWh/y



Specifications

OLED77B5PUA (83.5" DIAGONAL) DIMENSIONS/WEIGHTS/UPC

TV Dimensions with Stand (WxHxD)	67.7" x 41.6" x 12.6"
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	55.2"
TV Weight with Stand	51.8 lbs
TV Weight without Stand	50.5 lbs
Shipping Weight	73.9 lbs
VESA Mounting (W x H)	300 x 200
UPC	195174106143

ACCESSORIES INCLUDED

Remote	Magic Remote MR25
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	OLW480
Floor Stand	-

WARRANTY

Limited Warranty	1 Year Parts & Labor
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