LG OLED AI B6 4K Smart TV 2026



83" | 77" | 65" | 55" | 48"

Stunning OLED Visuals Meets Intelligent Processing Step into the world of Perfect Black and vivid, accurate color with the 2026 LG OLED AI B6 GUA Series. Powered by the next-generation alpha 8 AI Processor 4K Gen3, this display brings your favorite movies and games to life with exceptional clarity and immersive Dolby Atmos audio. Engineered with a lightning-fast 0.1ms response time and up to 144Hz VRR, the B6 is a powerhouse for both high-end gaming and cinematic viewing, all while delivering tailored personalized AI recommendations through LG ThinQ.

- Available Sizes: 48", 55", 65", 77", 83"
- Processor: alpha 8 AI Processor 4K Gen3
- Display Technology: 4K OLED with Perfect Black & Perfect Color (100% Color Volume)
- Gaming Features: Native 120Hz (Up to 144Hz VRR), <0.1ms response time, NVIDIA G-Sync & AMD FreeSync Premium
- Smart UI: webOS 26 with LG ThinQ for personalized AI recommendations
- Audio: 20W 2.0 Channel Speakers with Dolby Atmos & alpha 8 AI Sound Pro

Perfect Black. Perfect Color. Perfect Picture. Elevate your home entertainment with the spectacular visual depth of the 2026 LG OLED AI B6 series. Because LG OLED pixels are self-lit, they can turn off completely to achieve UL-verified Perfect Black and infinite contrast. This means colors pop with incredible vibrancy and 100% Color Fidelity, ensuring every scene looks stunningly realistic, even in bright, sunlit rooms.

Advanced Intelligence: alpha 8 AI Processor 4K Gen3 At the core of the B6 is the powerful alpha 8 AI Processor, which uses deep-learning algorithms to optimize both picture and sound in real-time.

- AI Picture Pro: Analyzes the type of scene being shown and uses AI Super Upscaling 4K and Dynamic Tone Mapping Pro to refine every detail, removing noise and enhancing clarity.
- alpha 8 AI Sound Pro: Fills your room with a virtual 11.1.2 surround sound up-mix. Clear Voice Pro (AI Object Remastering Pro) isolates and enhances dialogue, ensuring you hear every whisper crystal clear alongside immersive Dolby Atmos spatial audio.

The Ultimate Competitive Gaming Edge The LG B6 is engineered to give you a massive advantage in every match. Play at blistering speeds with a native 120Hz refresh rate that pushes up to 144Hz VRR in 4K. Experience absolutely no ghosting with an ultra-low 0.1ms response time, and tear-free action with full compatibility for both NVIDIA G-Sync and AMD FreeSync Premium. It even introduces the world's first TV support for Bluetooth Ultra Low Latency Controllers, reducing input delay to less than 2.5ms for incredibly responsive cloud gaming via NVIDIA GeForce NOW.

webOS 26: Smarter, Faster, More Personalized Finding what to watch has never been easier. The B6 is powered by the award-winning webOS 26 interface, equipped with LG ThinQ to curate personalized AI recommendations tailored exclusively to your viewing habits. Navigate seamlessly with the included AI Magic Remote, control your smart home ecosystem, and enjoy peace of mind with military-grade security.

LG Shield & Quad Protection Your data and hardware are locked down. The TV features LG Quad Protection, shielding the internal components from high voltages, lightning strikes, humidity, and power surges. Meanwhile, LG Shield ensures your personal data, passwords, and viewing habits are protected against cyber threats with real-time scanning and secure cryptographic algorithms.

Technical Specifications:

- Model Series: B6GUA (Available in 48", 55", 65", 77", 83")
- Display Type: 4K OLED (3,840 x 2,160 Resolution)
- Refresh Rate: 120Hz Native (Up to 144Hz VRR)
- Processor: alpha 8 AI Processor 4K Gen3
- HDR Format Support: Dolby Vision, HDR10, HLG, FILMMAKER MODE(TM)
- Audio: 20W, 2.0 Channel Down-Firing Speakers, Dolby Atmos, WOW Orchestra compatible
- Connectivity: 4x HDMI Inputs (supports 4K 120Hz, eARC, VRR, ALLM), 2x USB 2.0, Wi-Fi 5, Bluetooth 5.3
- Smart Platform: webOS 26 with LG ThinQ and LG Shield Security

Technical Specifications

PICTURE (DISPLAY)	
Backlight Type	OLED
Brightness Booster	No
Display Resolution	4K UHD
Display Screen Size	48", 55", 65", 77", 83"
Display Type	OLED
Immersive Design	OLED Slim
Perfect Black	Yes
Refresh Rate	120Hz Native
Stand Type Included	Table Stand
Wide Colour Gamut	Perfect Colour
PICTURE (PROCESSING)	
4K Expression Enhancer	Yes
AI Brightness Control	Yes
AI Genre Selection	Yes (SDR/HDR)
AI Picture Pro	Yes
AI Upscaling	alpha 11 AI Super Upscaling 4K
Auto Calibration	Yes
AV1 (Video Decoder)	4K@60p, 10bit
CPUs	Quad
Dimming Technology	Pixel Dimming

PICTURE (PROCESSING) (cont.)	
Dynamic Tone Mapping	Dynamic Tone Mapping Pro
FILMMAKER MODE	Yes
HDR Expression Enhancer	Yes
HDR (High Dynamic Range)	Dolby Vision, HDR10, HLG
HEVC	4K@120p, 10bit
HFR (High Frame Rate)	4K 120 fps (HDMI, USB)
Motion	OLED Motion
Picture Mode	9 modes (Vivid, Standard, Eco, Cinema, Sports, Game, Filmmaker, ISF Expert Bright Room, ISF Expert Dark Room.)
Picture Processor	alpha 8 AI Processor 4K Gen3
QMS (Quick Media Switching)	Yes
VP9 (Video Decoder)	4K@60p, 10bit
GAMING	
ALLM (Auto Low Latency Mode)	Yes
Dolby Vision for Gaming	Yes
FreeSync Compatible (AMD)	Yes
G-Sync Compatible (Nvidia)	Yes
Game Optimizer	Yes (Game Dashboard)
HGIG Mode	Yes

GAMING (cont.)	
Response Time	Less than 0.1ms
VRR (Variable Refresh Rate)	Up to 165Hz
SMART TV	
AI Agent	Yes
AI Chatbot	Yes
AI Concierge	Yes
AI Recommendation	Yes
Always Ready	Yes
App Store	Yes (App)
Full Web Browser	Yes
Google Home / Hub	Yes
Hands-free Voice Control	No
Home	Yes
Home Hub	Yes (LG ThinQ)
Home Office	Yes
Intelligent Voice Recog.	Yes
LG Channels	Yes
Multi View	Yes
Music Service	Yes
Operating System (OS)	webOS 26

*Product specifications are subject to change without notice. Visit www.lg.com/ca_en for the most current information.

Technical Specifications (cont.)

SMART TV (cont.)	
Smartphone Remote App	Yes (LG ThinQ)
Sports	Yes
Tips	Yes
Usage Care	Yes
USB Camera Compatible	Yes
Works with Apple Airplay	Yes
Works with Apple Home	Yes
Works with Hey Google	Yes
Works with Naver Clova	No

AUDIO	
AI Acoustic Tuning	Yes
AI Sound	alpha 8 AI Sound Pro (Virtual 11.1.2 Up-mix)
Audio Codec	AC4, AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X (Refer to manual)
Audio Output	20W
Bluetooth Surround Ready	Yes (1 Way Playback)
Clear Voice Pro	Yes (AI Object Remastering Pro)
Dolby Atmos	Yes
LG Sound Sync	Yes
Simultaneous Audio Output	Yes
Sound Mode Share	Yes
Speaker Direction	Down Firing
Speaker System	2.0 channel
Woofer / per Channel Output	10W per Channel
WOW Orchestra	Yes
WOWCAST	Yes

BROADCASTING	

BROADCASTING (cont.)	
AD (Audio Description)	Yes
Analog TV Reception	Yes
[ATSC] Closed Caption	Yes
CI + (Common Interface)	No
Data Broadcasting	No
Digital TV Reception	ATSC1.0 (Terrestrial), QAM (Cable)
[DVB] Subtitle	No
EPG (8days)	Yes
Multi Tuner	No
Teletext Page	No
Teletext (Top/Flof/List)	No

CONNECTIVITY	
Bluetooth Support	v 5.3
CI Slot	No
Ethernet Input	1ea
HDMI Audio Return Channel	eARC (HDMI 2)
HDMI Input	HDMI 2.1 - 4ea (supports 4K 120Hz, eARC, VRR, ALLM, QMS, QFT (4 port))
Headphone output	No
IR Blaster	Yes
Line out	No
Optical Digital Audio Out	1ea
RF Input (Antenna/Cable)	1ea
RS-232C Input (Min Jack)	Yes
Simplink (HDMI CEC)	Yes
USB Input	2ea (v 2.0)
Wi-Fi	Wi-Fi 5

ACCESSIBILITY	
Gray Scale	Yes
High Contrast	Yes

POWER	
Energy saving Mode	Yes
Energy Standard	Yes
ENERGY STAR® Qualified	No
Illuminance Green sensor	Yes
Power Supply (Voltage, Hz)	AC 120V, 50/60Hz
Standby Power Consumption	Under 0.5W

ACCESSORIES INCLUDED	
IR Blaster Cable	No
Power Cable	Yes (Attached)
Remote	AI Magic Remote MR26
Remote Control Batteries	Yes (AAA X 2EA)

ADDITIONAL FEATURE	
AI Magic Remote Control	Built-In
Content Partners English	LG Channels, Netflix, Prime Video, Disney+, Crave, TSN, CBC GEM, Apple TV, Paramount+, Youtube, Apple Music, Spotify and more
Content Partners French	LG Channels, Netflix, Prime Video, Disney+, Crave, RDS, ICI TOU.TV, Apple TV, Paramount+, Youtube, Apple Music, Spotify and more
DAFC (Dolby Atmos FlexConnect)	Yes
Digital Recording	No
Gemini	Yes
Hyper Radiant Colour	No
Invert Colours	Yes
OSD Language	4 language (webOS) (/English/Espanol/Français)
QFT (Quick Frame Transport)	Yes
Reflection Free	No
Time Machine (DVR)	No
Time Shift	No
Watch & Record	No

Dimensions (W x H x D), Weights & Power

Size	Packaging WxHxD	w/ Stand WxHxD	w/o Stand WxHxD	Stand WxD	Pkg Wt lbs	w/ Stand lbs	w/o Stand lbs	VESA mm	Typical Power W	Yearly Energy kWh
83"	78.3 x 47.2 x 7.4	72.5 x 45/42.6 x 11.8	72.5 x 41.5 x 2.1	58.1 x 7.4	83.6	61.1	58.9	400 x 400	174.6	321
77"	72.4 x 44.5 x 7.9	67.7 x 41.6 x 10.6	67.7 x 38.9 x 2.0	54.7 x 7.9	73.4	51.4	50.5	300 x 200	160.9	296
65"	63.0 x 37.4 x 6.8	57.0 x 35.4 x 8.6	57.0 x 32.8 x 1.8	42.1 x 6.8	53.8	38.1	37.7	300 x 200	122	225
55"	53.5" x 31.9" x 6.8"	48.3" x 30.6" x 8.6"	48.3" x 27.9" x 1.8"	42.1" x 8.6"	19.5	14.5	14.3	300 x 200	92.8	172
48"	48" x 28.9" x 6.0"	42.1" x 27.1" x 8.6"	42.1" x 24.4" x 1.8"	37.2 x 6.0	32.0	25.8	25.4	300 x 200	92.4	171



