LG OLED evo AI C6H 4K Smart TV 2026



83" 77"

Big-Screen Immersion Meets Unmatched OLED Brightness Experience the pinnacle of large-format home theater with the 2026 LG OLED evo AI C6HUP Series. Designed exclusively for larger sizes, this premium display utilizes an advanced Primary RGB Tandem 2.0 OLED panel featuring Hyper Radiant Colour Tech and Brightness Booster Pro. Powered by the state-of-the-art alpha 11 AI Processor 4K Gen3, it delivers stunning highlights, perfect blacks, and cinematic clarity alongside elite 165Hz gaming performance.

- Available Sizes: 77" and 83"
- Processor: alpha 11 AI Processor 4K Gen3 with Dual AI Engine
- Display Technology: Primary RGB Tandem 2.0 OLED with Brightness Booster Pro
- Gaming Features: Native 120Hz (Up to 165Hz VRR), <0.1ms response time, NVIDIA G-Sync & AMD FreeSync Premium
- Smart UI: webOS 26 with Multi-AI Search (Google Gemini & LG THinQ)

A Cinematic OLED Experience Built for Scale The 2026 LG OLED evo AI C6HUP series isn't just a bigger TV; it is a significantly enhanced large-screen display. Available in expansive 77-inch and 83-inch models, the C6HUP elevates the core OLED experience by integrating LG's most advanced brightness technologies, making it the perfect centerpiece for both dark, dedicated home theaters and bright living rooms.

Hyper Radiant Colour Tech & Brightness Booster Pro At the heart of the C6HUP is a specialized Primary RGB Tandem 2.0 OLED panel. It utilizes Brightness Booster Pro to magnify each of the 8.3 million self-lit pixels, shining up to 3.2x brighter than traditional OLEDs. This powerful illumination, paired with Perfect Black and Perfect Color, ensures that HDR highlights punch through with stunning depth, realism, and vibrancy--exactly as the creator intended.

Powered by the alpha 11 AI Processor 4K Gen3 Driving this massive display is LG's flagship Dual AI Engine processor. It optimizes every frame with incredible speed and precision:

- AI Picture Pro: Utilizes Dynamic Tone Mapping Ultra and AI Super Upscaling 4K to analyze objects and genres, rendering older content with sharp, lifelike 4K clarity.
- alpha 11 AI Sound Pro: Fills your room with a Virtual 11.1.2 up-mix from the built-in 40W 2.2 channel speakers. Clear Voice Pro (AI Object Remastering Ultra) isolates and enhances dialogue, while Dolby Atmos ensures a fully immersive, multi-dimensional audio experience.

Elite 165Hz PC & Console Gaming Gamers gain a massive competitive edge with the C6HUP. The display natively runs at 120Hz, pushing up to a blistering 165Hz VRR in 4K for compatible PC and console setups. Armed with four HDMI 2.1 ports, an ultra-low 0.1ms response time, Auto Low Latency Mode (ALLM), and compatibility with both NVIDIA G-Sync and AMD FreeSync Premium, every high-speed match remains incredibly sharp, fluid, and tear-free. Fine-tune your settings instantly using the on-screen Game Dashboard.

A Smarter TV with webOS 26 Navigating your entertainment has never been easier. The updated webOS 26 features powerful AI recommandations from Google Gemini and LG ThinQ, allowing for highly personalized content recommendations and hands-free voice control. Navigate menus effortlessly with the included AI Magic Remote, manage your smart home ecosystem via the Home Hub, and rest easy knowing your personal data is protected by the robust security of LG Shield.

Technical Specifications:

- Model Series: C6HUP (OLED77C6HUP, OLED83C6HUP)
- Display Type: 4K OLED evo (3,840 x 2,160 Resolution)
- Refresh Rate: 120Hz Native (Up to 165Hz VRR)
- Processor: alpha 11 AI Processor 4K Gen3
- HDR Format Support: Dolby Vision, HDR10, HLG, FILMMAKER MODE(TM)
- Audio: 40W, 2.2 Channel Down-Firing Speakers, Dolby Atmos, WOW Orchestra compatible
- Connectivity: 4x HDMI 2.1 (supports 4K 120Hz, eARC, VRR, ALLM), 2x USB 2.0, Wi-Fi 5, Bluetooth 5.3
- Smart UI: webOS 26 with LG Channels, Multi-AI Search, and AirPlay2 / Google Cast built-in

Technical Specifications

PICTURE (DISPLAY)	
Backlight Type	OLED evo
Brightness Booster	Brightness Booster Pro
Display Resolution	4K UHD
Display Screen Size	77", 83"
Display Type	OLED evo
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
Dynamic Tone Mapping	OLED Dynamic Tone Mapping Ultra

PICTURE (PROCESSING) (cont.)	
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 11 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
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	Yes
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
Smartphone Remote App	Yes (LG ThinQ)
Sports	Yes
Tips	Yes
Usage Care	Yes

*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.)	
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 11 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	40W
Bluetooth Surround Ready	Yes (1 Way Playback)
Clear Voice Pro	Yes (AI Object Remastering Ultra)
Dolby Atmos	Yes
LG Sound Sync	Yes
Simultaneous Audio Output	Yes
Sound Mode Share	Yes
Speaker Direction	Down Firing
Speaker System	2.2 channel
Woofer / per Channel Output	WF : 20W, 10W per Channel
WOW Orchestra	Yes
WOWCAST	Yes
BROADCASTING	
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)

BROADCASTING (cont.)	
[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

POWER (cont.)	
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	Yes
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"	80.7 x 47.2 x 7.9	72.5 x 43.1 (Adjustable = 45) x 11.7	72.5 x 41.5 x 2.1	18.1 x 11.7	98.3	72.8	62.4	400 x 400	190.9	351
77"	74 x 44.5 x 9.0	67.4 x 40.7 x 10.5	67.4 x 38.7 x 1.9	20.5 x 10.5	84.4	59.5	51.8	300 x 200	154	284





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