

55 Inch LG OLED AI B5 4K Smart TV 2025

OLED55B5PSA

Key Features

- 4K picture quality, upscaled visual and surround sound from the alpha 8 AI Processor Gen2
- True black levels in every pixel create stunning contrast, depth, and detail
- 100% Color Fidelity for accurate lifelike colors. 100% Color Volume for richer hues



All Spec

PICTURE (DISPLAY)

Display Type
4K OLED

Refresh Rate
120Hz Native

Display Resolution
4K Ultra HD (3,840 x 2,160)

Wide Color Gamut
OLED Color

PICTURE (PROCESSING)

Picture Processor
α8 AI Processor 4K Gen2

Dynamic Tone Mapping
Yes (Dynamic Tone Mapping Pro)

AI Brightness Control
Yes

FILMMAKER MODE™
Yes

Motion
OLED Motion

HFR (High Frame Rate)
4K 120 fps (HDMI)

Auto Calibration
Yes

AI Upscaling
α8 AI Super Upscaling 4K

AI Genre Selection
Yes (SDR/HDR)

HDR (High Dynamic Range)
Dolby Vision / HDR10 / HLG

Dimming Technology
Pixel Dimming

Picture Mode
10 modes

AI Picture Pro
Yes

QMS (Quick Media Switching)
Yes

GAMING

G-Sync Compatible (Nvidia)

Yes

HGIG Mode

Yes

ALLM (Auto Low Latency Mode)

Yes

Dolby Vision for Gaming (4K 120Hz)

Yes

FreeSync Compatible (AMD)

Yes

Game Optimizer

Yes (Game Dashboard)

VRR (Variable Refresh Rate)

Yes (Up to 120Hz)

Response Time

Less than 0.1ms

ACCESSIBILITY

High Contrast

Yes

Gray Scale

Yes

Invert Colors

Yes

DIMENSIONS AND WEIGHTS

TV Dimensions without Stand (WxHxD, mm)

1228 x 708 x 45.9

TV Dimensions with Stand (WxHxD, mm)

1228 x 772 x 235

Packaging Dimensions (WxHxD, mm)

1360 x 810 x 172

TV Stand (WxD, mm)

1057 x 235

TV Weight without Stand (kg)

14.3

TV Weight with Stand (kg)

14.5

Packaging Weight (kg)

19.5

VESA Mounting (WxH, mm)

300 x 200

AUDIO

Dolby Atmos

Yes

AI Sound

a8 AI Sound Pro (Virtual 9.1.2 Up-mix)

Clear Voice Pro

Yes (Auto Volume Leveling)

WiSA Ready

Yes (Up to 2.1 Channel)

LG Sound Sync

Yes

Sound Mode Share

Yes

Simultaneous Audio Output

Yes

Bluetooth Surround Ready

Yes (2 Way Playback)

Audio Output

AI Acoustic Tuning

20W	Yes
Audio Codec	Speaker Direction
AC4, AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X (Refer to manual)	Down Firing
Speaker System	WOW Orchestra
2.0 channel	Yes

CONNECTIVITY

HDMI Audio Return Channel	Bluetooth Support
eARC (HDMI 3)	Yes (v 5.3)
Ethernet Input	Simplink (HDMI CEC)
1ea	Yes
SPDIF (Optical Digital Audio Out)	HDMI Input
1ea	4ea (supports 4K 120Hz, eARC, VRR, ALLM, QMS (4 port))
RF Input (Antenna/Cable)	USB Input
1ea	2ea (v 2.0)
Wi-Fi	
Yes (Wi-Fi 6)	

SMART TV

Operating System (OS)	USB Camera Compatible
webOS 25	Yes
AI Chatbot	Always Ready
Yes	Yes
Full Web Browser	Google Cast
Yes	Yes
Google Home / Hub	Home Hub
Yes	Yes
Intelligent Voice Recognition	Magic Remote Control
Yes	Built-In
Multi View	Smartphone Remote App
Yes	Yes (LG ThinQ)
Voice ID	Works with Apple Airplay
Yes	Yes
Works with Apple Home	
Yes	

POWER

Power Supply (Voltage, Hz)

AC 100~240V 50-60Hz

Standby Power Consumption

Under 0.5W

ACCESSORIES INCLUDED

Remote

Magic Remote MR25

Power Cable

Yes (Attached)

BROADCASTING

Analog TV Reception

Yes

Digital TV Reception

DVB-T2/T (Terrestrial), DVB-C (Cable) /
ISDB-T (Terrestrial, only Philippines)