

PLATFORM

Operating System (OS)	webOS Smart TV
Number of CPUs	Quad
Main Processor (SoC)	α9 Gen5 AI Processor 4K

DISPLAY

Type	4K OLED
Screen Size	77
Resolution	3840*2160
Color / Wide Color Gamut	Perfect Color
Color display bits / Billion Rich Colors	Yes
Contrast / Perfect Black	Perfect Black
Contrast / Dimming	Pixel Dimming
Refresh Rate	Refresh Rate 120Hz

VIDEO AND PICTURE QUALITY

AI Picture Pro	AI Picture Pro
AI Upscaling	AI Upscaling
AI Genre Selection	Yes (SDR/HDR/Dolby HDR)
AI Brightness Control	Yes
HDR	Cinema HDR
Dolby Vision IQ	-/Yes/Yes/Yes (4K/2K)

HDR10 Pro	Yes/Yes/Yes/Yes (4K/2K)
HLG	Yes/Yes/Yes/Yes (4K/2K)
FILMMAKER MODE™	Yes
Dynamic Tone Mapping / Pro	Dynamic Tone Mapping Pro
4K HFR	Yes / Yes / - / Yes (RF: EU only)
2K HFR	Yes / Yes / - / Yes (RF: EU only)
Motion Pro	OLED Motion
HEVC	4K@120p, 10bit
VP9 (Video Decoder)	4K@60p, 10bit
AV1 (Video Decoder)	4K@60p, 10bit
G-Sync Compatible	Yes
FreeSync Compatible	Yes
Game Optimizer (VRR/ALLM/GameGenre)	Yes / Yes / Yes
Picture Mode	Yes 9 modes (Vivid, Standard, Eco, Cinema, Sports, Game, Filmmaker, (ISF)Expert(Bright Room), (ISF)Expert(Dark Room))
HGIG Mode	Yes

AUDIO AND SOUND QUALITY

Speaker (Sound Output)	40W (WF:20W, 10W per Channel)
Channel	2.2ch
Direction	Down Firing

Simultaneous Audio Output	Yes
AI Sound / Pro	AI Sound Pro (Virtual 7.1.2 Up-mix)
DOLBY ATMOS	Yes
AI Acoustic Tuning	Yes
Clear Voice Pro	Clear Voice Pro
Bluetooth Surround Ready	Yes
WiSA Speakers	Yes
LG Sound Sync	Yes
Sound Share	Yes
Audio Codec	AC4, AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X (Refer to manual)
SoundBar Mode Control	Yes
TV Sound Mode Share	Yes

AI SMART FUNCTION

ThinQ	Yes
Intelligent Voice Recognition	Yes
Speech to Text	Yes
LG Voice Search	Yes
AI Home	Yes
AI Recommendation / AI	Yes
Intelligent Edit	Yes
Home Dashboard	Yes

Apple Homekit	Yes
Screen Share	Yes
ThinQ App	Yes
Airplay2	Yes
Next Picks	Yes (Smart Tips only)
Magic Explorer	Yes
Magic Remote Control	Built-In
Quick Access	Yes
Universal Control	Yes
360° VR Play	Yes
Related Content Search	Yes
Art Gallery	Yes
Apps (LG Store)	Yes
DIAL	Yes
Web Browser	Yes
TV On With Mobile	Yes
Wi-Fi TV On	Yes
Bluetooth Low Energy On	Yes
Network File Browser	Yes
Block access to harmful site	Yes
Live Plus	Yes

(ACR-based Bilateral Service)

Hotel Mode	Yes
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Sports Alert	Yes
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Music Discovery	Yes
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Multi View	Yes
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Room to Room Share	Yes
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Family settings	Yes
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Always Ready	Yes
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USB	Yes
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BROADCASTING

Digital TV Reception(Terrestrial,Cable,Satellite)	Yes
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Terrestrial	DVB-T2/T
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Cable	DVB-C
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Satellite	DVB-S2/S
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Analog TV Reception	Yes
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Data Broadcasting (Country Spec)	Yes
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Teletext Page	Yes(2000 page)
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Teletext (Top/Flof/List)	Yes
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[DVB] Subtitle	Yes
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AD (Audio Description)	Yes
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EPG (8days)	Yes
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CONNECTIVITY

HDMI	4 (Side)
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Version	HDMI 2.1
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Simplink (HDMI CEC)	Yes
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eARC / ARC (Audio Return Channel)	eARC (HDMI 2)
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USB	3 (Side)
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LAN	Yes (Side)
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RF IN	2 (Side)
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SPDIF (Optical Digital Audio Out)	(Side)
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IR Blaster	Yes
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Wifi	Yes (802.11ac)
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Bluetooth	Yes (V5.0)
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POWER & GREEN

Power Supply	AC 100~240V 50-60Hz
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Standby Power Consumption	Under 0.5W
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Energy saving Mode	Yes
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Illuminance Green sensor	Yes
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Energy Standard	Yes
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ENERGY STAR [®] Qualified	Differ by region
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Estimated Annual Operating Cost	Differ by region
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Estimated Annual Electricity Use	Differ by region
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ACCESSORY

Remote	MR22GN (NFC)
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IR Blaster Cable	Yes
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Power Cable	Yes (TV Attached)
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ADDITIONAL FEATURE

Auto Calibration	Yes
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OSD Language	16 language (English, Spanish, French, Portuguese, Russian, Indonesian, Malayan, Vietnamese, Thai, Arabic, Kurdish, Afrikaans, Amharic, Hausa, Swahili, Farsi)
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Time Machine (DVR)	Yes
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Digital Recording	Yes
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Analog DVR	Yes
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Time Shift	Yes
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Slim Bracket Compatible	Yes
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ACCESSIBILITY

High Contrast	Yes
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Gray Scale	Yes
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Invert Colors	Yes
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