

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	55
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
HGIG Mode	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))

AUDIO AND SOUND QUALITY

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

Simultaneous Audio Output	Yes
DOLBY ATMOS	Yes
AI Sound / Pro	AI Sound Pro (Virtual 7.1.2 Up-mix)
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

Screen Share	Yes
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Apple Homekit	Yes
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ThinQ App	Yes
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Airplay2	Yes
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Next Picks	Yes
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Magic Explorer	Yes
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Magic Remote Control	Built-In
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Quick Access	Yes
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Universal Control	Yes
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360° VR Play	Yes
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Related Content Search	Yes
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Art Gallery	Yes
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Apps (LG Store)	Yes
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DIAL	Yes
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Web Browser	Yes
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TV On With Mobile	Yes
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Wi-Fi TV On	Yes
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Bluetooth Low Energy On	Yes
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Network File Browser	Yes
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Block access to harmful site	Yes
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Live Plus (ACR-based Bilateral Service)	Yes
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Hotel Mode	Yes
Sports Alert	Yes
Music Discovery	Yes
Multi View	Yes
Room to Room Share	Yes
Family settings	Yes
Always Ready	Yes
USB	Yes

BROADCASTING

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

CONNECTIVITY

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

POWER & GREEN

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

ACCESSORY

Remote	MR22GN (NFC)
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Battereis	Yes (AA x 2EA)
IR Blaster Cable	Yes
Power Cable	Yes (TV Attached)

ADDITIONAL FEATURE

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

ACCESSIBILITY

High Contrast	Yes
Gray Scale	Yes
Invert Colors	Yes