

## 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	83
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)

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

## AUDIO AND SOUND QUALITY

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

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

## AI SMART FUNCTION

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

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

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## (ACR-based Bilateral Service)

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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 (EPG )
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## CONNECTIVITY

HDMI	2(Bottom) / 2(Side)
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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	2(Bottom) / 1(Side)
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LAN	Yes (Side)
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RF IN	2 (Bottom)
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SPDIF (Optical Digital Audio Out)	(Bottom)
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Headphone out	Yes
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Line out	Yes
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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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## ACCESSORY

Remote	MR22GN (NFC)
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<b>Battereis</b>	Yes (AA x 2EA)
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<b>IR Blaster Cable</b>	Yes
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<b>Power Cable</b>	Yes (TV Attached)
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## **ADDITIONAL FEATURE**

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

<b>High Contrast</b>	Yes
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<b>Gray Scale</b>	Yes
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<b>Invert Colors</b>	Yes
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