

SUPER UHD TV



SM81

Product Sheet

NANO CELL TECHNOLOGY

Super UHD TVs with Nano Cell Technology provide strikingly vivid, eye-catching colour and the UHD/4K resolution enhances everyone's viewing experience, even on the biggest of TV screens.

Quad-core Processor

The Quad-core Processor has been optimised for smart performance to add power and depth to the UHD 4K imaging.

Local Dimming


Local Dimming reduces the backlight behind areas displaying black for improved contrast.

AI ThinQ™ with Google Assistant

LG AI ThinQ™ TV's let you access the enormous power of Google Assistant through your LG TV's Magic Remote or compatible smart device.⁸



Boost your viewing pleasure with the amazing performance of LG Super UHD SM81. Using Nano Cell Technology and Local Dimming, plus 4K Active HDR, the colours and contrast are enhanced for a better viewing experience. All of this is powered by a Quad-core Processor to bring you closer to the action than ever before.

SM81		65", 55", 49" Super UHD TV with LG AI ThinQ			
DISPLAY & PICTURE QUALITY					
Screen Type	LED/LCD				
Screen size	49" (123cm), 55" (139cm), 65" (164cm)				
Resolution	3840 x 2160				
Motion Rate	Tru Motion 100 with backlight scanning				
HDR Format ¹	HDR10, HLG				
Wide Colour Gamut	●				
Nano Cell Technology	●				
Backlight Type	Edge				
Absolute Black	-				
Local Dimming	●				
ULTRA Luminance	●				
Picture Modes	9 (Vivid, Standard, APS, Cinema, Cricket, Game, HDR Effect, ISF Bright Room, ISF Dark Room)				
HDR Picture Modes	6 (Vivid, Standard, Technicolor, Cinema Home, Cinema, Game)				
Dolby Vision™ Picture Modes	-				
Colour Bit Depth	10-bit Processing				
Image Processor	Quad-core				
Tuner	MPEG-2/4 DVB-T2 (Single)				
Resolution Upscaling ²	4K Upscaler				
AI Picture	-				
AI Brightness (HDR content only)	-				
Motion Pro (Black Frame Insertion)	-				
Noise Reduction	●				
CONVENIENCE FEATURES					
Magic Remote	●				
Intelligent Voice Control ³	●				
Electronic Programme Guide (SI - 8 days)	●				
User Guide (Built-in)	●				
Time Machine Compatible ⁴	●				
Time Shift	●				
Universal Remote Feature ⁵	●				
USB Video Playback Formats	ASF/MMV/AVI (Xvid, H.264/AVC)/ MP4/M4v/MOV (H.264, H.265, MPEG-4, HEVC)/ MKV (MPEG-2, MPEG-4, H.264, H.265, VP8, VP9, HEVC) SHVC/TS/TRP/TP/MTS/MPG/3GP/3G2 MPEG/DAT/VOB/HEVC (Up to 4096x2160p@120p)				
USB Music Playback Formats	MP3/WAV/WMA/OGG/FLAC				
USB Photo Playback Formats	JPEG/PNG/BMP				
Gallery	-				
Multi-View	-				
Simplink (HDMI CEC)	●				
Variable Refresh Rate (VRR) ⁶	-				
Auto Low Latency Mode (ALLM) ⁶	●				
SMART TV FEATURES					
AI ThinQ ⁷	●				
Smart TV Operating System	webOS 4.5 Smart TV				
Works with Google Assistant ⁸	●				
Home Dashboard	●				
Wi-Fi	● (802.11ac)				
4K UHD Streaming	●				
Web Browser ⁹	●				
FreeviewPlus (HbbTV) ¹⁰	●				
Netflix ¹¹	●				
Google Home Compatible ¹²	●				
SMART SHARE FEATURES					
Network File Browser	●				
Miracast ¹³	●				
Smartphone Remote App ¹⁴	LG TV Plus				
AUDIO FEATURES					
Audio Output	20W				
Speaker System	Stereo (2 x Full-range)				
Audio Decoder	AC3, HE-AAC, AAC, MP2, MP3, PCM, DTS, DTS-HD, DTS Express, WMA, apt-X, ADPCM, LPCM, MPEG-1, Dolby Digital, Dolby Digital Plus, Dolby AC-4				
Virtual Surround	DTS VirtualX				
Bluetooth Headphone Compatible	● (Bluetooth 5)				
WiSA Speaker 2.0Ch Compatible ¹⁵	-				
Sound Modes	6 (Standard, Cinema, Clear Voice III, Cricket (Sports), Music, Game)				
AI Sound	-				
Phone Bluetooth Connectivity	● (Music)				
Sound Sync Wireless (LG TV) ¹⁶	●				
Audio Return Channel (ARC) ¹⁷	ARC (HDMI 2)				
CONNECTIONS					
HDMI ¹⁸	● (4)				
USB 2.0	● (2)				
RF Antenna Input	● (1)				
Component/Composite Input	● (RCA Type)				
Headphone (3.5mm) Output	-				
Digital (Optical) Audio Output	● (1)				
LAN Port	● (1)				
DIMENSIONS AND REGULATORY					
TV with Stand (WxHxD)	65": 1451mm x 910mm x 324mm 55": 1232mm x 786mm x 263mm 49": 1096mm x 710mm x 263mm				
TV without Stand (WxHxD)	65": 1451mm x 840mm x 64mm 55": 1232mm x 716mm x 64mm 49": 1096mm x 640mm x 64mm				
Net Weight with Stand (kg)	65": 25.8kg 55": 18.7kg 49": 15.5kg				
Net Weight without Stand (kg)	65": 24.1kg 55": 17.2kg 49": 14kg				
Carton (WxHxD)	65": 1600mm x 1035mm x 207mm 55": 1360mm x 880mm x 175mm 49": 1192mm x 810mm x 162mm				
Gross Weight of Carton (kg)	65": 33.3kg 55": 23.7kg 49": 18.4kg				
VESA size	65", 55": 300 x 300* 49": 200 x 200 (LG OLW480B bracket recommended)				
Energy Star Rating	65" : 5 Stars 55" : 5 Stars 49" : 4 Stars				
EAN	65": 8806098412686 55": 8806098412655 49": 8806098412648				
WARRANTY PERIOD					
1 Year Warranty - Parts and Labour					
FURTHER INFORMATION					
1 HDR playback for HDMI, USB and IPTV streaming services. HDR broadcasts currently not available in Australia.					
2 Image quality of upscaled content will vary based on the source resolution.					
3 Voice Control feature is not available in all languages and dialects. Depending on ambient noise, voice clarity and available content or source material, voice commands may not always deliver or respond to the requested command.					
4 Dedicated USB Hard Drive (80GB ~ 2TB) required for recording and live playback function (sold separately).					
5 Some brands not supported, check website for details: www.lgappstv.com/appspc/oss/support.lge					
6 Feature activated when connected to a compatible device					
7 AI ThinQ feature is not available in all languages and dialects. Depending on ambient noise, voice clarity and available content or source material, voice commands may not always deliver or respond to the requested command.					
8 Wi-Fi network and Google Account required. Controlling devices and features requires compatible smart devices. Features and services may be changed without notice. To learn more, visit LG.com. Google is a trademark of Google LLC.					
9 Internet connection required. Internet usage charges and conditions apply. WebOS internet browser supports HTML5, VP9 and HEVC. Content and features will vary from time to time without notice.					
10 FreeviewPlus uses HbbTV technology which combines broadcast and internet streaming. Internet connection is required. Data usage charges and conditions apply.					
11 Subscription membership required. Netflix provides content in SD, HD and 4K Ultra HD. Netflix requires a steady internet connection speed of at least 25Mbps to stream 4K Ultra HD content, otherwise content will be downscaled to either HD or SD quality based on the available bandwidth. Speeds of 25Mbps available in limited locations and may vary depending on time of day. Data usage charges apply.					
12 Google Assistant enabled device required, sold separately.					
13 Miracast compatible Android device required for this feature.					
14 LG TV Plus' on compatible Android devices (Android 4.2+) and iOS devices (iOS 6.1+). Device must be in range, on the same Wi-Fi network as the TV.					
15 WiSA compatible speakers required to use this feature. Sold Separately					
16 Uses Bluetooth® 5 technology to send audio to compatible LG home audio products.					
17 Designed to work with compatible LG Audio only					
18 SM86, SM81, UM76, UM73: HDMI ports support HDCP 2.2 and 60fps @ 2160p. W9 ~ B9, SM94 ~ SM90: HDMI ports support HDCP 2.3 and 120fps @ 2160p. Z9, SM99: HDMI ports support HDCP 2.3 and 60fps @ 4320p					

All product specifications correct at time of printing. Specifications may change without prior notice. Customers are advised to check with your retailer before purchase.