

NANOCELL



NANO86 (55", 65")

Product Sheet

a7 Gen3 AI Processor 4K

The powerful a7 Gen3 Processor delivers spectacular viewing and sound experience by enhancing picture and sound sources. It delivers amazing viewing experiences no matter what the source.

ThinQ AI

TV takes a giant leap forward. Transform your TV into a central hub with intelligent ThinQ AI¹⁶. With natural voice recognition, LG ThinQ AI allows you to command and control your Home IoT ecosystem. With Google Assistant and Amazon Alexa built-in, LG ThinQ AI makes life so much more convenient.

NanoCell

NanoCell delivers incredible picture quality with improved colour purity. Nanoparticles are used as colour purifiers that refine red and green wavelengths to reproduce vivid, accurate colours.

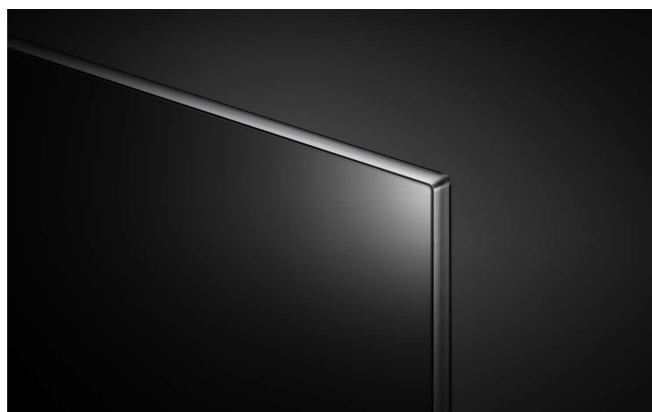
Dolby Vision IQ & Atmos


Enjoy professionally mastered visual and sound at home. Watch Dolby enhanced movies the way they should be - absolutely breathtakingly¹. With Dolby Vision IQ, the screen brightness, colour and contrast are intelligently adjusted for content and lighting conditions. Plus, Dolby Atmos delivers an immersive audio experience, for maximum enjoyment.

A World of Entertainment

Dive into a wide variety of content to choose from with Disney+, the Apple TV app and Netflix²⁰. From the latest movies, TV shows, and documentaries, to live sports and more, find them all in one place. Just sit back and enjoy.

*Apple, the apple logo, and Apple TV are trademarks of Apple Inc, registered in the US and other countries. Apple TV+ is a trademark of Apple Inc.



NANO86 (55", 65")		NanoCell TV with LG AI ThinQ			
DISPLAY & PICTURE QUALITY					
Screen Type		LED/LCD			
Screen size		55" (139cm), 65" (164cm)			
Resolution		3840 x 2160			
Motion Rate		Tru Motion 200 with backlight scanning			
HDR Format ¹		Dolby Vision™, HDR10, HLG			
Dolby Vision IQ™ ¹		●			
HDR10 Pro ¹		●			
Wide Colour Gamut		●			
NanoColour		●			
Backlight Type		Edge			
Perfect Black		-			
NanoBlack (Local Dimming)		●			
ULTRA Luminance		●			
Picture Modes		10 (Vivid, Standard, FILMMAKER MODE™, APS, Cinema, Cricket, Game, HDR Effect, ISF Bright Room, ISF Dark Room)			
HDR Picture Modes		5 (Vivid, Standard, FILMMAKER MODE™, Cinema Home, Cinema)			
Dolby Vision™ Picture Modes		5 (Vivid, Standard, Cinema Home, Cinema, Game)			
Colour Bit Depth		10-bit			
Image Processor		α7 Gen 3 AI Processor 4K			
Tuner		MPEG-2/4 DVB-T2 (Single)			
Resolution Upscaling ²		4K Upscaler			
AI Picture		●			
AI Brightness		● (HDR)			
Auto Genre Selection		● (Dolby Vision content only)			
FILMMAKER MODE™		●			
Motion Pro (Black Frame Insertion)		●			
Noise Reduction		●			
High Frame Rate (HFR) ³		● (HDMI: 4K@120fps)			
CONVENIENCE FEATURES					
Magic Remote		●			
Intelligent Voice Control ⁴		●			
Hands-Free Voice Control ⁵		-			
Electronic Programme Guide (SI - 8 days)		●			
User Guide (Built-in)		●			
Time Machine Compatible ⁶		●			
Time Shift		●			
Universal Remote Feature ⁷		●			
Video Playback Formats		ASF/WMV/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, HEVC) / SHVC/TS/TRP/TP/MTS/MPG/3GP/3G2 / MPEG/DAT/VOB/HEVC (Up to 4096x2160 @ 120p) / VP9 & AV1 (Up to 4096x2160 @ 60p)			
Music Playback Formats		MP3/WAV/WMA/OGG/FLAC			
Photo Playback Formats		JPEG/PNG/BMP			
Gallery		●			
Sports Alert ⁸		●			
SIMPLINK (HDMI CEC)		●			
GAMING FEATURES					
Variable Refresh Rate (VRR) ⁹		●			
Nvidia G-Sync Compatible ¹⁰		-			
AMD FreeSync Premium		●			
HGIG Mode		●			
Auto Low Latency Mode (ALLM) ¹¹		●			
WARRANTY PERIOD					
Warranty Period		1 Year Warranty - Parts and Labour			

AUDIO FEATURES	
Audio Output	20W
Audio Decoder	AC3, HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X, ADPCM, LPCM, MPEG-1, Dolby Digital, Dolby Digital Plus, Dolby AC-4
Virtual Surround	Dolby Atmos
Bluetooth Music Playback	● (Bluetooth 5)
WiSA Speaker 2.0ch Compatible ¹²	●
Sound Modes	6 (Standard, Cinema, Clear Voice III, Cricket (Sports), Music, Game)
AI Sound	●
Headphone Bluetooth Compatible	● (Bluetooth 4.2+)
Bluetooth Surround Compatible ¹³	●
Sound Sync Wireless (LG TV) ¹⁴	●
Audio Return Channel (ARC) ¹⁵	eARC / ARC
SMART TV FEATURES	
AI ThinQ ¹⁶	●
Smart TV Operating System	webOS 5.0 Smart TV
Google Assistant ¹⁷	●
Amazon Alexa ¹⁷	●
Works with Apple Homekit ¹⁷	●
Home Dashboard	●
Wi-Fi	● (802.11ac)
4K UHD Streaming	●
Web Browser ¹⁸	●
FreeviewPlus (HbbTV) ¹⁹	●
Netflix ²⁰	●
Disney+ ²⁰	●
AppleTV ²⁰	●
Google Home Compatible ²¹	●
SMART SHARE FEATURES	
Network File Browser	●
Miracast ²²	●
Smartphone Remote App ²³	LG TV Plus
Works with Apple AirPlay ²⁴	●
CONNECTIONS	
HDMI ²⁵	● (4)
USB 2.0	● (3)
RF Antenna Input	● (1)
Component/Composite Input	● (1)
Headphone (3.5mm) Output	● (1)
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
TV without Stand (WxHxD)	65": 1451mm x 840mm x 64mm 55": 1232mm x 716mm x 64mm
TV Stand (WxD)	65": 831mm x 324mm 55": 841mm x 263mm
Net Weight with Stand (kg)	65": 25.8kg 55": 18.7kg
Net Weight without Stand (kg)	65": 24.1kg 55": 17.2kg
Carton (WxHxD)	65": 1600mm x 1035mm x 207mm 55": 1360mm x 880mm x 175mm
Gross Weight of Carton (kg)	65": 33.3kg 55": 23.7kg
VESA size	300 x 300
Energy Star Rating	65": 5 ½ Stars 55": 5 Stars
EAN	65": 8806098711819 55": 8806098711826

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Web Browser ¹⁸	●
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17 Google Assistant™ and Amazon Alexa™ functionality require an internet connection as well as a Google or Amazon Account (as applicable). Apple AirPlay® requires a Wi-Fi connection. Controlling devices and features requires compatible smart devices. Subscriptions may be required to access certain content. Some features and services may be changed without notice. Depending on language, voice clarity and available content or source material, voice commands may not always deliver or respond to the requested command. Google is a trademark of Google LLC. Amazon, Alexa and all related logos and motions are trademarks of Amazon.com, Inc. or its affiliates. AirPlay is a trademark of Apple Inc. 18 Internet connection required. Internet usage charges and conditions apply. WebOS internet browser supports HTML5, VP9 and HEVC. 19 FreeviewPlus uses HbbTV technology which combines broadcast and internet streaming. Internet connection is required. Data usage charges and conditions apply. 20 Subscription membership required. Content in SD, HD and 4K Ultra HD. 4K Ultra HD requires a steady internet connection speed of at least 25mbps to stream, 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. 21 Google Assistant enabled device required, sold separately. 22 Miracast compatible Android device required for this feature. 23 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 24 Apple AirPlay 2™ and HomeKit™ requires a Wi-Fi connection. Controlling devices and features requires compatible smart devices. Subscriptions may be required to access certain content. Some features and services may be changed without notice. Depending on language, voice clarity and available content or source material, voice commands may not always deliver or respond to the requested command. AirPlay® and HomeKit™ are trademarks of Apple Inc. 25 NANO91, NANO86, 86UN81: HDMI ports 3 & 4 support HDCP 2.3, 120fps @2160p	