

UHD TV

UN81 (86")

Product Sheet



Real 4K

LG UHD TV was made to entertain by taking everything you watch to a new level. Whether it's cinema, sports, or games, it delivers realistic images with vivid colour and fine detail in up to four times the definition of Full HD.

*Native 4K content is required for full 4K resolution effect.

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.

Dolby Vision IQ & Atmos

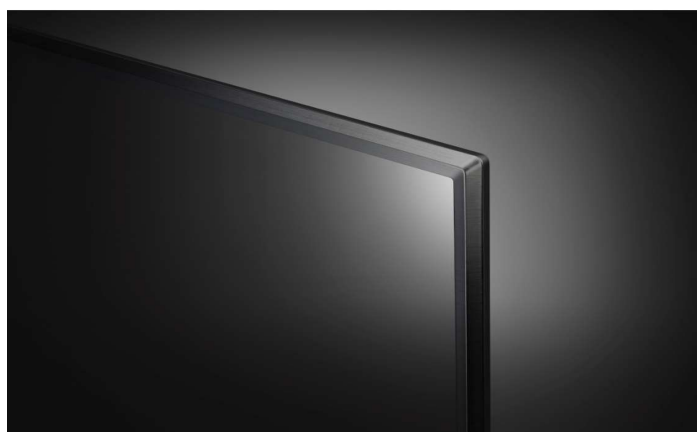
Enjoy professionally mastered visual and sound at home. Watch Dolby enhanced movies the way they should be - absolutely breathtakingly¹. With Dolby Vision IQ, the screen brightness, colour and contrast are intelligently adjusted for content and lighting conditions. Plus, Dolby Atmos delivers an immersive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



UN81 (86")		UHD TV with LG AI ThinQ			
DISPLAY & PICTURE QUALITY					
Screen Type		LED/LCD			
Screen size		86" (217cm)			
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		●			
Nano Cell Technology		-			
Backlight Type		Direct			
Perfect Black		-			
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 Processing			
Image Processor		α7 Gen 3 AI Processor 4K			
Tuner		MPEG-2/4 DVB-T2 (Single)			
Resolution Upscaling ²		4K Upscaler			
AI Picture		●			
AI Brightness		-			
Auto Genre Selection		-			
FILMMAKER MODE™		●			
Motion Pro (Black Frame Insertion)		●			
Noise Reduction		●			
High Frame Rate (HFR) ³		● (HDMI/USB: 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 / 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 ¹⁰		-			
AMD FreeSync		-			
HGIG Mode		●			
Auto Low Latency Mode (ALLM) ¹¹		●			
WARRANTY PERIOD					
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 Feature activated when showing HFR content and connected to a compatible device.

4 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.

5 ThinQ TV control voice commands are supported. Ambient noise, language, dialect and voice clarity restrictions apply.

6 Dedicated USB Hard Drive required for recording and live playback function (sold separately).

7 Some brands not supported, check website for details: www.lgappstv.com/appspcv/oss/support_lge

8 Features and services may change without notice.

9 Feature activated when connected to a compatible device and compatible content.

10 Only RTX 20-series and GTX 16-series GPUs will support G-SYNC Compatible with LG OLED TVs.

11 Feature activated when connected to a compatible device and capable content.

12 WISA compatible speakers required to use this feature. Sold Separately

13 Feature requires two matching compatible Bluetooth Speakers (others (JBL Clip 3, Go 2, Bose Soundlink Micro and Mini 2, UE Wonderboom, Marshall Stockwell II, B&O Beoplay P1, Canton LX-C600, Sony SRS-XB22).

14 Uses Bluetooth® S technology to send audio to compatible LG home audio products.

15 Designed to work with compatible LG Audio only.

16 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.

AUDIO FEATURES	
Audio Output	20W
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, Dolby Atmos
Virtual Surround	Ultra Surround
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	-
Digital (Optical) Audio Output	● (1)
LAN Port	● (1)
DIMENSIONS AND REGULATORY	
TV with Stand (WxHxD)	1943mm x 1198mm x 426mm
TV without Stand (WxHxD)	1943mm x 1118mm x 94mm
TV Stand (WxD)	1196mm x 426mm
Net Weight with Stand (kg)	48.3kg
Net Weight without Stand (kg)	44.6kg
Carton (WxHxD)	2116mm x 1217mm x 325mm
Gross Weight of Carton (kg)	63.1kg
VESA size	600 x 400
Energy Star Rating	4 ½ Stars
EAN	8806098711789

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 NANO80, 75UN81, UN73: HDMI ports support HDCP 2.2, 60fps @ 2160p