

# NANO91



NanoCell TV with LG AI ThinQ

86", 75", 65"



## LG NanoCell TV. Real 4K\*

Supercharge your entertainment. Incredible picture quality, captivating colour and amazing detail, made possible by a beautiful 4K display and the accuracy of Real Colour. Made possible with LG NanoCell TV.

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



## α7 Gen4 AI Processor 4K Powerful to the core

Stunning TV, powered by technology. The α7 Gen4 AI processor at the core of NanoCell uses machine learning algorithms to analyse and optimise your entertainment. With automatic adjustments to picture and sound, whatever you watch can appear spectacular.<sup>2</sup>



## Think you know smart? Think again

LG AI ThinQ is here to maximise your smart TV experience. Use your favourite voice assistant to control your TV, and discover the convenience of an all-new Home screen.<sup>12</sup>



## Darkness brings out the detail

Deep black and excellent contrast. Full Array Dimming technology is designed to more precisely control light levels at the screen, so that each scene displays deep darks, bright whites and vivid colours that pop.



## VRR, ALLM, eARC. Play at a higher standard

Don't let outdated connections cripple your edge. HDMI 2.1<sup>3</sup> brings VRR (Variable Refresh Rate), ALLM (Auto Low Latency Mode) and eARC (Enhanced Audio Return Channel) to enable fast-moving content at high resolutions, and smooth, synchronised audio and graphics.



NANO91	
DISPLAY & PICTURE QUALITY	
Screen Type	LED/LCD
Screen size	65" (164cm), 75" (189cm), 86" (217cm)
Resolution	3840 x 2160
Motion Rate	Tru Motion 200 with backlight scanning
HDR Format <sup>1</sup>	Dolby Vision™, HDR10, HLG
Dolby Vision IQ™ <sup>1</sup>	●
HDR10 Pro <sup>1</sup>	●
Wide Colour Gamut	●
Nano Colour	●
Backlight Type	Slim Direct LED
Local Dimming	● (Full Array Dimming)
ULTRA Luminance	●
Picture Modes	9 (Vivid, Standard, FILMMAKER MODE™, APS, Cinema, Cricket, Game Optimiser, ISF Bright Room, ISF Dark Room)
HDR Picture Modes	6 (Vivid, Standard, FILMMAKER MODE™, Cinema Home, Cinema, Game Optimiser)
Dolby Vision™ Picture Modes	5 (Vivid, Standard, Cinema Home, Cinema, Game Optimiser)
Colour Bit Depth	10-bit Processing
Image Processor	α7 Gen 4 AI Processor 4K
Tuner	MPEG-2/4 DVB-T2 (Single)
Resolution Upscaling <sup>2</sup>	4K Upscaler
AI Picture	●
AI Brightness	● (HDR)
Auto Genre Selection	● (Dolby Vision content only)
FILMMAKER MODE™	●
Motion Pro (Black Frame Insertion)	● (Pro)
Noise Reduction	●
High Frame Rate (HFR) <sup>3</sup>	● (HDMI: 4K@120fps)
CONVENIENCE FEATURES	
Magic Remote	●
Intelligent Voice Control <sup>4</sup>	●
Hands-Free Voice Control <sup>4</sup>	-
Electronic Programme Guide (SI - 8 days)	●
User Guide (Built-in)	●
Time Machine Compatible <sup>5</sup>	●
Time Shift <sup>5</sup>	●
Universal Remote Feature <sup>6</sup>	●
Video Playback Formats	ASF/WMV/AVI (Xvid, H.264/AVC) / MP4/M4v/MOV (H.264, H.265, MPEG-4, HEVC), AV1/ MKV (MPEG-2, MPEG-4, H.264, H.265, VP8, VP9, HEVC, AV1) TS/TRP/TP/MTS/MPG/3GP/3G2/MPEG/DAT/VOB/ HEVC (Up to 3840x2160 @ 120p) / AV1 (Up to 3840x2160 @ 60p)
Music Playback Formats	MP3/WAV/WMA/OGG/FLAC
Photo Playback Formats	JPEG/PNG/BMP
Art Gallery	●
Sports Alert <sup>7</sup>	●
SIMPLINK (HDMI CEC)	●
GAMING FEATURES	
Variable Refresh Rate (VRR) <sup>8</sup>	●
NVIDIA G-SYNC® Compatible <sup>9</sup>	●
AMD FreeSync® Premium <sup>10</sup>	●
HGiG Mode	●
Auto Low Latency Mode (ALLM)	●
Game Optimiser	●
SMART TV FEATURES	
ThinQ <sup>11</sup>	●
Smart TV Operating System	webOS 6.0 Smart TV
Hey Google (Google Assistant) <sup>12</sup>	●
Amazon Alexa Built In <sup>12</sup>	●
Works with Apple Homekit <sup>12</sup>	●
Home Dashboard	●
Wi-Fi	● (802.11ac)
Web Browser <sup>13</sup>	●
FreeviewPlus (HbbTV) <sup>14</sup>	●
Smart Speaker Compatible <sup>16</sup>	●
1 HDR playback for HDMI, USB and IPTV streaming services. HDR broadcasts currently not available in Australia. Compatible Dolby Vision High Dynamic Range content required for full HDR effect. Dolby Atmos source content required for full audio effect. 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. Supports up to 40Gbps bandwidth, allowing up to 4K 120Hz 4:4:4 @ 10-bit per component. 4 Voice Control features may not be available in all languages and dialects. Refer to source material. ThinQ TV control voice commands are supported. 5 Dedicated USB Hard Drive required for recording and live playback function (sold separately). exFAT not supported. 6 Some brands not supported, check website for details: www.lgappstv.com/appspc/oss/support/lge 7 Features and services may change without notice. 8 Feature activated when connected to a compatible device and compatible content. 9 Only RTX 20-series, 30-series and GTX 16-series GPUs will support G-SYNC Compatible with LG OLED TVs. 10 Feature activated when connected to a compatible device and capable content. 11 All 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. 12 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.	
SMART SHARE FEATURES	
Network File Browser	●
Smart Share (Miracast) <sup>18</sup>	● (PIP/Full Screen)
Smartphone Remote App <sup>19</sup>	LG ThinQ
Works with Apple AirPlay <sup>20</sup>	●
AUDIO FEATURES	
Audio Output	40W
Audio Decoder	HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X, LPCM, MPEG-1, AC3 (Dolby Digital), EAC3 (Dolby Digital+) AC-4 (Dolby Atmos)
Virtual Surround	Dolby Atmos
WiSA Speaker 2.1ch Compatible <sup>21</sup>	●
Sound Modes	7 (AI Sound, Standard, Cinema, Clear Voice Pro, Cricket (Sports), Music, Game Optimiser)
AI Sound	●
Bluetooth Surround Compatible <sup>22</sup>	●
LG Sound Sync (LG TV Bluetooth) <sup>23</sup>	●
Enhanced Audio Return Channel <sup>23</sup>	● (eARC)
LG TV Sound Mode Share (LG Soundbar Mode Control) <sup>23</sup>	●
CONNECTIONS	
HDMI <sup>24</sup>	● (4)
USB	● (3)
RF Antenna Input	● (1)
Composite/Component Input	-
Headphone (3.5mm) Output	● (1)
Digital (Optical) Audio Output	● (1)
LAN Port	● (1)
IR Blaster	-
Gallery Stand Compatible (FS21GB - Sold Separately)	-
DIMENSIONS AND REGULATORY	
TV with Stand (WxHxD)	86": 1925mm x 1177mm x 452mm 75": 1673mm x 1035mm x 405mm 65": 1452mm x 903mm x 336mm
TV without Stand (WxHxD)	86": 1925mm x 1105mm x 46mm 75": 1673mm x 963mm x 45mm 65": 1452mm x 839mm x 45mm
TV Stand (WxD)	86": 1196mm x 452mm 75": 895mm x 405mm 65": 831mm x 336mm
Net Weight with Stand (kg)	86": 59.1kg 75": 41.6kg, 65": 30.3kg
Net Weight without Stand (kg)	86": 55.3kg 75": 38.2kg, 65": 28.6kg
Carton (WxHxD)	86": 2116mm x 1217mm x 285mm 75": 1820mm x 1115mm x 253mm 65": 1600mm x 1070mm x 203mm
Gross Weight of Carton (kg)	86": 73.4kg 75": 52.1kg, 65": 37.5kg
VESA size	86": 600 x 400 75": 400 x 400, 65": 400 x 400
Energy Star Rating	86": 4 Stars 75": 4 ½ Stars, 65": 4 Stars
EAN	86": 8806091210456 75": 8806091210463, 65": 8806091210470
WARRANTY PERIOD	
Warranty Period	1 Year Warranty - Parts and Labour
13 Internet usage charges and conditions apply. WebOS internet browser supports AV1, HTML5, VP9 and HEVC, not for video streaming. Content and features will vary from time to time without notice. 14 Freeview uses HbbTV technology which combines broadcast & internet streaming. Data usage charges & conditions apply. 15 Subscription membership and high internet speed (25 mbps) required for content in 4K Ultra HD, otherwise content will be downloaded to either HD or SD quality based on the available bandwidth and time of day. 16 Hey Google, Apple HomeKit or Amazon Alexa enabled device required, sold separately. 17 Home Wi-Fi and LG ThinQ app required. Compatible with Android 7.0 (or later). Magic Tap feature compatible with NFC enabled Android phones. 18 Miracast compatible Android device required for this feature. 19 LG ThinQ App on compatible Android devices (Android 5.0+) and iOS devices (iOS 11+). Device must be in range, on the same Wi-Fi network as the TV. 20 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. 21 WiSA compatible speakers required. (Sold Separately) 22 Feature requires two matching compatible LG Bluetooth Speakers. 23 Designed to work with compatible LG audio devices only. 24 BT1, NANO91, NANO86, 86NANO75, 86UP80: HDMI ports 3 & 4 support HDCP 2.3, 120fps @ 2160p 25 The cable may be visible depending on installation environment. Depending on installation environment, there may be a slight gap between the TV and the wall. All product specifications correct at time of printing. Specifications may change without prior notice. Customers are advised to check with your retailer before purchase.	
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