

## NANOCELL

**NANO91**  
(86",75",65",55")

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 AI<sup>16</sup>. 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 enhanced colour purity. Nanoparticles are used as colour purifiers that refine red and green wavelengths to reproduce vivid, accurate colours.

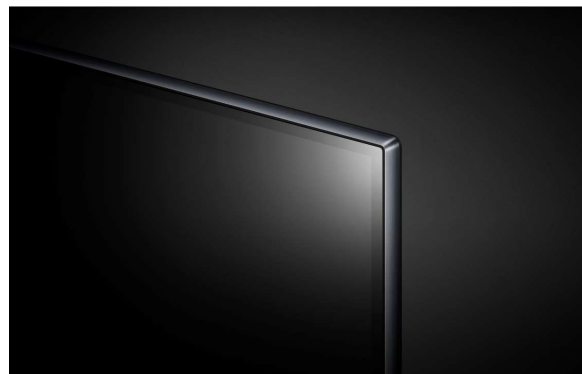
### Dolby Vision IQ & Atmos

Enjoy professionally mastered visual and sound at home. Watch Dolby enhanced movies the way they should be - absolutely breathtakingly<sup>1</sup>. 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 Netflix<sup>20</sup>. 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.



NANO91 (86", 75", 65", 55")		NanoCell TV with LG AI ThinQ		LG Life Good	
<b>DISPLAY &amp; PICTURE QUALITY</b>					
Screen Type	LED/LCD				
Screen size	55" (139cm), 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 Cell Technology	•				
Backlight Type	Direct				
Perfect Black	-				
Local Dimming	• (Full Array 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 <sup>2</sup>	4K Upscaler				
AI Picture	•				
AI Brightness	• (HDR/SDR)				
Auto Genre Selection	• (Dolby Vision content only)				
FILMMAKER MODE™	•				
Motion Pro (Black Frame Insertion)	•				
Noise Reduction	•				
High Frame Rate (HFR) <sup>3</sup>	• (HDMI/USB: 4K@120fps)				
<b>CONVENIENCE FEATURES</b>					
Magic Remote	•				
Intelligent Voice Control <sup>4</sup>	•				
Hands-Free Voice Control <sup>5</sup>	-				
Electronic Programme Guide (SI - 8 days)	•				
User Guide (Built-in)	•				
Time Machine Compatible <sup>6</sup>	•				
Time Shift	•				
Universal Remote Feature <sup>7</sup>	•				
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, VP9, HEVC) / SHVC/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 <sup>8</sup>	•				
SIMPLINK (HDMI CEC)	•				
<b>GAMING FEATURES</b>					
Variable Refresh Rate (VRR) <sup>9</sup>	•				
Nvidia G-Sync <sup>10</sup>	-				
AMD FreeSync	•				
HGiG Mode	•				
Auto Low Latency Mode (ALLM) <sup>11</sup>	•				
<b>WARRANTY PERIOD</b>					
Warranty Period	1 Year Warranty - Parts and Labour				
<b>AUDIO FEATURES</b>					
Audio Output	86", 75": 40W 65", 55": 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				
Virtual Surround	Dolby Atmos				
Bluetooth Music Playback	• (Bluetooth 5)				
WISA Speaker 2.0ch Compatible <sup>12</sup>	•				
Sound Modes	6 (Standard, Cinema, Clear Voice III, Cricket (Sports), Music, Game)				
AI Sound	•				
Headphone Bluetooth Compatible	• (Bluetooth 4.2+)				
Bluetooth Surround Compatible <sup>13</sup>	•				
Sound Sync Wireless (LG TV) <sup>14</sup>	•				
Audio Return Channel (ARC) <sup>15</sup>	eARC / ARC				
<b>SMART TV FEATURES</b>					
AI ThinQ <sup>16</sup>	•				
Smart TV Operating System	webOS 5.0 Smart TV				
Google Assistant <sup>17</sup>	•				
Amazon Alexa <sup>17</sup>	•				
Works with Apple HomeKit <sup>17</sup>	•				
Home Dashboard	•				
Wi-Fi	• (802.11ac)				
8K UHD Streaming	•				
Web Browser <sup>18</sup>	-				
FreeviewPlus (HbbTV) <sup>19</sup>	•				
Netflix <sup>20</sup>	•				
Disney+ <sup>20</sup>	•				
AppleTV <sup>20</sup>	•				
Google Home Compatible <sup>21</sup>	•				
<b>SMART SHARE FEATURES</b>					
Network File Browser	•				
Miracast <sup>22</sup>	•				
Smartphone Remote App <sup>23</sup>	LG TV Plus				
Works with Apple AirPlay <sup>24</sup>	•				
<b>CONNECTIONS</b>					
HDMI <sup>25</sup>	• (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)				
<b>DIMENSIONS AND REGULATORY</b>					
TV with Stand (WxHxD)	86": 1926mm x 1183mm x 432mm 75": 1677mm x 1043mm x 384mm 65": 1456mm x 910mm x 324mm 55": 1237mm x 786mm x 263mm				
TV without Stand (WxHxD)	86": 1926mm x 1106mm x 73mm 75": 1677mm x 966mm x 73mm 65": 1456mm x 840mm x 71mm 55": 1237mm x 716mm x 71mm				
TV Stand (WxD)	86": 1196mm x 432mm 75": 895mm x 384mm 65": 831mm x 324mm 55": 841mm x 263mm				
Net Weight with Stand (kg)	86": 55.4kg 75": 37.9kg 65": 25.7kg 55": 18.6kg				
Net Weight without Stand (kg)	86": 51.9kg 75": 35kg 65": 24kg 55": 17.1kg				
Carton (WxHxD)	86": 2116mm x 1217mm x 285mm 75": 1823mm x 1166mm x 231mm 65": 1600mm x 1070mm x 207mm 55": 1360mm x 880mm x 190mm				
Gross Weight of Carton (kg)	86": 70.3kg 75": 48.4kg 65": 33.4kg 55": 24.1kg				
VESA size	86", 75": 600 x 400 65", 55": 300 x 300				
Energy Star Rating	86": 5 Stars 75": 5 Stars 65": 5 Stars 55": 5 Stars				
EAN	86": 8806098663361 75": 8806098663378 65": 8806098663392 55": 8806098663408				
<b>FURTHER INFORMATION</b>					
<p>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/apps/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&amp;O Beoplay P2, 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.</p>					
<p>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 CX, CX, BX, NANO91: HDMI ports support HDCP 2.3, 120fps @ 2160p.</p>					