LG NanoCell
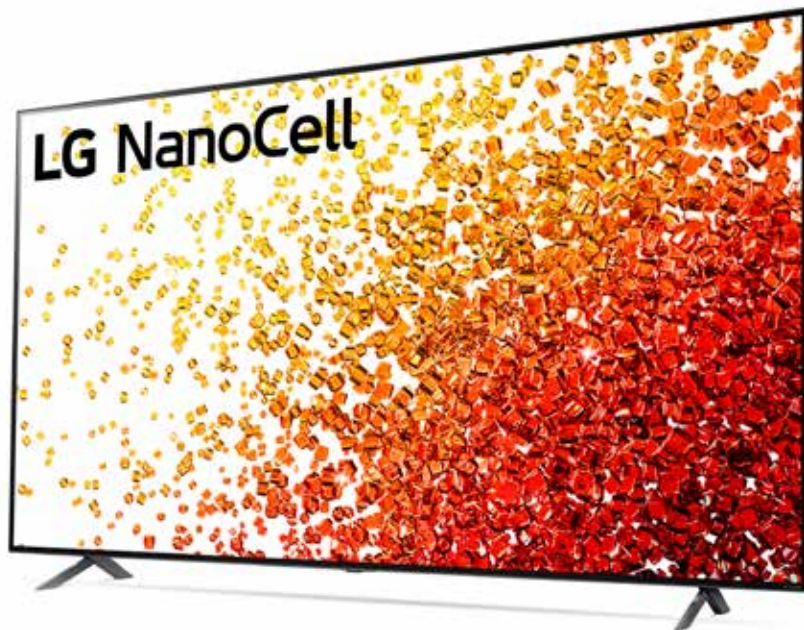
86NANO90UPA

LG NANO90 86" 4K Smart NanoCell TV

- **Real 4K NanoCell Display: Nano Colour, Nano Accuracy, Nano Bezel, Full Array Dimming Pro**
- **α7 Gen 4 Processor 4K with AI Picture & AI Sound**
- **webOS® 6.0 & ThinQ® AI w/ Magic Remote**
- **Cinema HDR w/ Dolby Vision™ IQ and Dolby Atmos®**
- **Gaming: VRR, ALLM, HGiG, Game Optimizer**

DESCRIPTION

LG NanoCell TV Nano90 is our best 4K LED TV

LG NanoCell TV Nano90 unveils a detailed LED picture in 4K resolution. With 8.3+ million pixels, you're immersed in four times the resolution of Full HD. See the natural, lifelike picture of Nano Colour. Enjoy wide viewing with Nano Accuracy. Witness deep black and contrast made possible through the precisely balanced lighting of Full Array Dimming. It's an experience backed by AI Picture and AI Sound, our premium processor, connected home features and cutting-edge gaming tech in LG's best 4K LED TV.

KEY FEATURES

Real 4K NanoCell Display

It's a 4K picture that defines quality. Over 8.3 million active pixels of 4K deliver 4 times the resolution of full HD. See the natural, lifelike colour of Nano Colour, precise colour at wide angles with Nano Accuracy, and deeper black and contrast of precisely balanced lighting. With Full Array Dimming Pro, NanoCell precisely controls individual LED backlight units. This results in deeper blacks* and minimal backlight bleeding for greater contrast and a more detailed picture.

*Compared to previous model

α7 Gen 4 Processor 4K

At the core of LG NanoCell TV is the α7 Gen4 AI Processor 4K, a groundbreaking chip that uses machine learning to analyze and optimize content. Every adjustment to picture and sound is automatic, so everything you watch is spectacular.

webOS® 6.0 & ThinQ® AI w/ Magic Remote

The newly designed home screen shows personalized content suggestions, gives you easier access to favourites, and lets you control connected devices all in one place. The redesigned Magic Remote has an ergonomic design that's easy to hold, and its point and scroll system allows faster searching. Built-in AI provides easy access to services, while hotkeys for major content providers give you shortcuts to all your favourites.

Cinema HDR w/ Dolby Vision™ IQ and Dolby Atmos®

Dolby Vision™ IQ intelligently adjusts picture settings based on content genre and ambient surroundings, while Dolby Atmos® delivers multi-dimensional surround sound — a powerful combination that produces breathtakingly cinematic results*.

*Dolby Vision is a trademark of Dolby Laboratories. Dolby, Dolby Atmos and the double-D symbol are registered trademarks of Dolby Laboratories.

Gaming: VRR, ALLM, HGiG, Game Optimizer

LG NanoCell TV gives you a gaming advantage. AI-powered picture quality transports you to the moment. Game Optimizer menu lets you adjust picture settings, optimize graphics and visibility, to deliver a better gaming experience no matter what type of game you're playing.

SPECIFICATIONS

PICTURE (PANEL)

Display Type	4K NanoCell
Display Resolution	3840 x 2160
NanoCell Display	Yes
Dimming Technology	Full Array Dimming Pro
Backlight Type	Slim Direct

PICTURE (PROCESSING)

Picture Processor	α7 Gen4 Processor 4K
Refresh Rate	TruMotion 240 (Native 120Hz)
HDR (High Dynamic Range)	Cinema HDR (Dolby Vision™, HDR10, HLG) HDR Dynamic Tone Mapping Dolby Vision™ IQ
Contrast	Face Enhancing Ultra Luminance
Clarity	Double Step Noise Reduction Sharpness Enhancer
Colour	Billion Rich Colours Advanced Colour Enhancer True Colour Accuracy
Resolution Upscaler	AI Upscaler
Motion	Motion Pro
Filmmaker Mode™	Yes

GAMING

FreeSync™	Yes
VRR (Variable Refresh Rate)	Yes
ALLM (Auto Low Latency Mode)	Yes
HGiG	Yes

AI TV (ARTIFICIAL INTELLIGENCE)

LG ThinQ® AI	Yes
Google Home Compatibility	Yes (Google Home device sold separately)
Amazon Alexa Compatibility	Yes (Amazon Alexa device sold separately)
Google Assistant Built-in	Yes
Amazon Alexa Built-in	Yes
Apple AirPlay 2 / HomeKit Compatibility	Yes
Intelligent Voice Recognition	Yes
Home Dashboard	Yes
AI Picture Pro / AI Picture	AI Picture
Auto Genre Selection	Yes (Dolby HDR)

SMART TV

Operating System	webOS® 6.0
LG Channels	Yes
LG Content Store (App Store)	Yes
Full Web Browser	Yes
Gallery Mode	Yes
Sports Alert	Yes

AUDIO

Speaker System	2.2 ch
Output Power	40W (WF:20W, 10W per Channel)
Speaker Direction	Down Firing
AI Sound Pro / AI Sound	AI Sound
Dolby Atmos®	Yes
WiSA Ready	Yes (5.1ch) (Separate dongle purchase required)
Audio Codec	AC4, AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X
Bluetooth Surround Ready	Yes
LG Sound Sync	Yes

CONNECTIVITY

Wi-Fi® Standard	Wi-Fi Certified 802.11ac
Bluetooth® Support	Version 5.0
HDMI-CEC (Simplink)	Yes
TV Tuner	ATSC, Clear QAM
Mobile Connectivity	Yes

INPUTS & OUTPUTS

HDMI Input	4 (Side)
HDMI Audio Return Channel (ARC)	eARC (HDMI 3)
USB Ports (v 2.0)	1 (Rear) / 2 (Side)
Composite Input (AV)	No
Ethernet Input	Yes
RS-232C Input (Mini Jack)	Yes
Digital Audio Output (Optical)	Yes

POWER

Power Supply (Voltage, Hz)	AC 120 V~ 50/60 Hz
Standby Power Consumption	Under 0.5W

DIMENSIONS/WEIGHTS/UPC

TV Dimenions with Stand (WxHxD)	1925 x 1165 x 359 mm / 75.79" x 45.87" x 14.13"
TV Dimenions without Stand (WxHxD)	1925 x 1105 x 46.1 mm / 75.79" x 43.5" x 1.81"
Packaging Dimensions (WxHxD)	2115 x 1215 x 228 mm / 83.27" x 47.83" x 8.98"
Stand Dimension (WxD)	1532 x 359 mm / 60.31" x 14.13"
TV Weight with Stand	55.5 kg / 122.36 lbs
TV Weight without Stand	54.5 kg / 120.15 lbs
Packaging Weight	68.2 kg / 150.36 lbs
VESA Mounting (W x H)	600 x 400
UPC	195174007433

ACCESSORIES INCLUDED

Magic Remote Control	Included in box
Remote Control Battery	Yes
Power Cable	Yes
Quick Start Guide	Yes
E-Manual	Yes

WARRANTY

Limited Warranty	1 Year Parts & Labour
Model Year	2021