

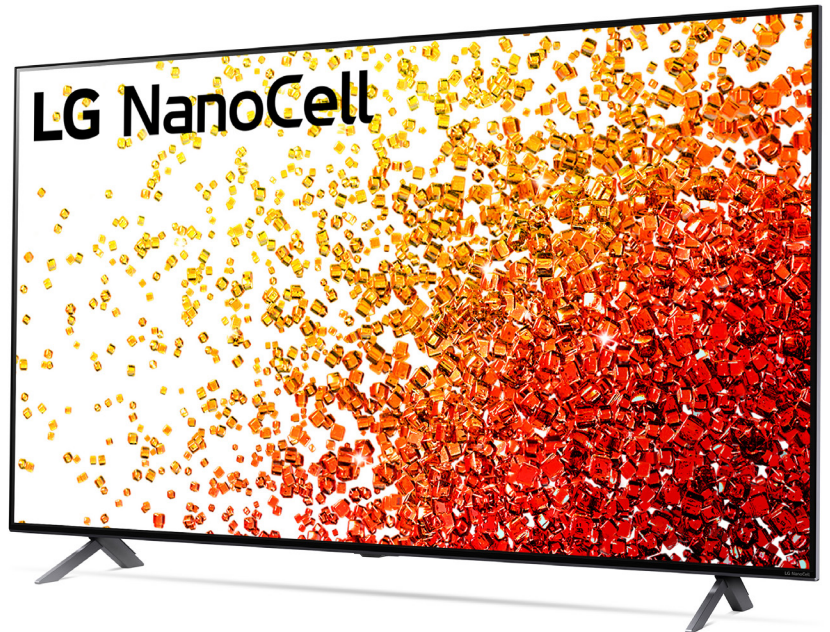
# NANO90UPA Series

LG NanoCell TV Nano90

86" 75" 65" 55"

\* Class size: See below for details.

- **Real 4K NanoCell Display w/ Full Array Dimming**
- **α7 Gen 4 AI Processor 4K w/ AI Picture + AI Sound**
- **Home Cinema Experience:**  
**Dolby Vision IQ, Dolby Atmos, Filmmaker Mode,**  
**Netflix, Prime Video, Apple TV+, Disney+, LG Channels**
- **Ultimate Gameplay:**  
**Game Optimizer,, ALLM, eARC, HGiG**



## DESCRIPTION

### Eye-opening LED.

Experience detailed LED picture in 4K resolution. With Full Array Dimming, you'll witness deep blacks and contrast with precisely balanced lighting that reduces halo effect and light bleed. See the natural, lifelike picture of Nano Color and fast action of a 120Hz refresh rate. It's an experience backed by AI Picture and AI Sound, our premium processor, connected home features and gaming tech.

## KEY FEATURES

### Real 4K NanoCell Display w/ Full Array Dimming

Explore a new world of color. Bring your favorite shows to life with a billion rich colors.\* Get deep blacks and enhanced contrast for a more detailed picture with Full Array Dimming.

\*Achieved through 10 bit dithering.

### α7 Gen 4 AI Processor 4K

Crystal-clear images driven by a powerful processor. Catch every detail with the smooth, crisp picture brought to you by our α7 Gen 4 AI Processor 4K. It adjusts your viewing and audio settings automatically with AI Picture and AI Sound, while AI 4K Upscaling authentically calibrates every scene.

\*Image quality of upscaled content will vary based on the source resolution.

### Home Cinema Experience

#### Bring cinema home.

Get breathtaking picture and audio that makes you feel like you're in the action with Cinema HDR, Dolby Vision IQ & Dolby Atmos. See movies exactly how directors intended with Filmmaker Mode. And with built-in access to Netflix, Prime Video, Apple TV+, Disney+ and LG channels, your favorite content is at your fingertips.

## Ultimate Gameplay

### Ultimate Gameplay is here.

Stay a step ahead, where milliseconds make all the difference. FreeSync Premium Compatible for real-time action and virtually no tearing coupled with fluid 120Hz refresh rate. Game Optimizer gives you easier access to all your game settings, while the latest HDMI delivers a fast connection. Plus, you'll get low input lag and fast response times with Auto Low-Latency Mode and HGiG.

## ThinQ AI

### TV with and IQ.

Control your LG smart products and other smart devices right from your TV with Home Dashboard or with the Magic Remote voice control. ThinQ AI plus Google Assistant and Alexa built-in let you control your entire connected home.

## SPECIFICATIONS

PICTURE (PANEL)	
Display Type	Real 4K NanoCell Display
Display Resolution	4K Ultra HD (3,840 x 2,160)
Wide Viewing Angle	Yes (IPS Technology)
Backlight Type	Slim Direct
Backlight Dimming Technology	Full Array Dimming Pro: 86", Full Array Dimming: 75", 65", 55"
Nano Color	Yes
Billion Rich Colors	Yes*
100% Color Consistency	Yes
PICTURE (PROCESSING)	
Picture Processor	α7 Gen 4 AI Processor 4K
AI Picture	Yes
Auto Genre Selection	Yes (Dolby HDR Only)
Upscaling	AI 4K Upscaling
Refresh Rate	TruMotion 240 (120Hz Native)
Motion	NanoCell Motion
SOUND (PROCESSING)	
AI Sound	Yes
TV Sound Mode Share	Yes
Bluetooth Surround Ready	Yes
HOME CINEMA	
HDR	Cinema HDR (Dolby Vision, HDR10, HLG)
Dolby Vision IQ	Yes
Filmmaker Mode	Yes
Magic Explorer	Yes
Next Picks	Yes
GAMING	
Game Optimizer	Yes
G-SYNC Compatible	-
FreeSync Premium™	Yes
VRR (Variable Refresh Rate)	Yes
ALLM (Auto Low Latency Mode)	Yes
HGiG	Yes
SMART TV	
Operating System	webOS
Content Partners	Netflix, Prime Video, Disney+, Apple TV, Hulu, Paramount+, Peacock, Youtube TV, Spotify, iHeartRadio and more
LG Content Store (App Store)	Yes
Full Web Browser	Yes
LG Channels	Yes
Sports Alert	Yes
Gallery Mode	Yes
Who.Where.What?	Yes
Home Dashboard	Yes
"Works With"	Hey Google, Alexa, Apple Airplay2 and Homekit (Separate device purchase necessary)
AI TV (ARTIFICIAL INTELLIGENCE)	
LG ThinQ® AI	Yes
Hands-free Voice Control	-
Magic Remote Control	Yes (Point, Click, Scroll, Voice)
Universal Remote Control	Yes (Auto Device Detection)
Voice Assistants	Google Assistant Built-in and Alexa Built-in (No separate device purchase necessary)
Intelligent Voice Recognition	Yes
AUDIO	
Speaker System	2.2 Channel
Output Power	40W
Speaker Direction	Down Firing
Dolby Atmos	Yes
WiSA Ready	Yes (Separate Dongle Purchase Required) *Up to 2.1 Channel
Audio Codec	AC4, AC3(Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X (Refer to manual)
LG Sound Sync	Yes
CONNECTIVITY	
NEXTGEN TV (ATSC 3.0)	-
Wi-Fi® Standard	Wi-Fi Certified 802.11ac
Bluetooth® Support	Version 5.0
IP Control	Yes
HDMI-CEC (Simplink)	Yes
TV Tuner	ATSC, Clear QAM
Smart Phone Connectivity	Yes

INPUTS & OUTPUTS	
HDMI Input (HDCP 2.2)	4(Side)
Latest HDMI (4K @ 120Hz)	HDMI 3,4
HDMI Audio Return Channel (ARC)	eARC (HDMI 3)
USB Ports (v 2.0)	2 (Rear) / 1 (Side)
RF Connection Input (Antenna/Cable)	1 (Rear, RF)
AV Input	-
Ethernet Input	1 (Rear)
RS-232C Input (Mini Jack)	1 (Rear)
Digital Audio Output (Optical)	1 (Side)

POWER	
Power Supply (Voltage, Hz)	AC 100-240V 50-60Hz
Standby Power Consumption	Under 0.5W
Typical Power Consumption	86": 198.2W 75": 137.8W 65": 115.6W 55": 86.6W
Annual Power Consumption	86": 36 kWh/y 75": 25.4 kWh/y 65": 21.4 kWh/y 55": 16.1 kWh/y

86NANO90UPA (85.6" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	75.8" x 45.9" x 14.1"
TV Dimensions without Stand (WxHxD)	75.8" x 43.5" x 1.8"
Packaging Dimensions (WxHxD)	83.3" x 47.8" x 9"
Stand Width	60.3"
TV Weight with Stand	122.4 lbs
TV Weight without Stand	120.2 lbs
Packaging Weight	150.4 lbs
VESA Mounting (W x H)	600 x 400
UPC	195174007433

75NANO90UPA (74.5" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	65.9" x 40.5" x 14.1"
TV Dimensions without Stand (WxHxD)	65.9" x 37.9" x 1.8"
Packaging Dimensions (WxHxD)	71.7" x 43.9" x 7.9"
Stand Width	Normal: 53" Hybrid: 20"
TV Weight with Stand	86 lbs
TV Weight without Stand	83.8 lbs
Packaging Weight	106.7 lbs
VESA Mounting (W x H)	400 x 400
UPC	195174005972

65NANO90UPA (64.5" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	57.2" x 35.6" x 11.6"
TV Dimensions without Stand (WxHxD)	57.2" x 33" x 1.8"
Packaging Dimensions (WxHxD)	65.7" x 42.1" x 8"
Stand Width	Normal: 45.8" Hybrid: 16.7"
TV Weight with Stand	63.1 lbs
TV Weight without Stand	62.2 lbs
Packaging Weight	85.1 lbs
VESA Mounting (W x H)	400 x 400
UPC	195174005934

55NANO90UPA (54.6" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	48.5" x 30.7" x 10.1"
TV Dimensions without Stand (WxHxD)	48.5" x 28.2" x 1.8"
Packaging Dimensions (WxHxD)	55.9" x 32.9" x 7.4"
Stand Width	43.5"
TV Weight with Stand	40.6 lbs
TV Weight without Stand	39.7 lbs
Packaging Weight	49.8 lbs
VESA Mounting (W x H)	300 x 300
UPC	195174005866

ACCESSORIES INCLUDED	
Remote	Magic Remote
Remote Control Battery	Yes (AA)
Power Cable	Yes
Quick Start Guide	Yes
E-Manual	Yes

WARRANTY	
Limited Warranty	1 Year Parts & Labor

\*Billion Rich Colors achieved via Dithering