

NANO90UNA Series

LG NanoCell TV Nano90



86"

75"

65"

55"

* Class size: See below for details.

- **Real 4K NanoCell Display:**
Nano Color, Nano Accuracy, Nano Bezel,
Full Array Dimming
- **α7 Gen 3 Processor 4K**
with AI Picture & AI Sound
- **webOS & ThinQ AI w/ Magic Remote**
- **Cinema HDR w/ Dolby Vision™ IQ | Dolby Atmos®**
- **Gaming:**
FreeSync, Variable Refresh Rate, ALLM, HGiG
- **TruMotion 240 (Native 120Hz)**



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 Color. Enjoy wide viewing with Nano Accuracy. Witness deeper 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

See LG NanoCell TV bring 4K to life.

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 color of Nano Color, precise color at wide angles with Nano Accuracy, and deeper black and contrast of precisely balanced lighting.

Full Array Dimming

See deeper black and greater contrast.

See mind-blowing moments in your movies, sports, and games. Full Array Local Dimming is a precise level of backlighting control — balancing light for deeper black and enhanced contrast from edge to edge.

webOS + Magic Remote

Entertainment at your command.

LG's fan-favorite webOS platform makes it surprisingly fast and easy to stream movies and shows with your favorite apps and find new obsessions based on what you like. While our Magic Remote lives up to its name with voice and motion control — just speak or simply point, scroll and click.

α7 Gen 3 Processor 4K

Our processor empowers better picture and sound.

Your picture is made better, clearer, and smoother. Our α7 Gen 3 Processor 4K powers the performance. You don't have to do a thing to enjoy great picture and sound. Our advanced processor does it for you with AI Picture, AI Sound and 4K Upscaling*.

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

Dolby Vision™ IQ | Dolby Atmos®

The leading name in cinematic sight and sound.

Dolby ups the action, driving their best-in-class HDR format to new cinematic heights. Dolby Vision IQ* automatically adjusts picture settings depending on ambient lighting conditions and content genres. Dolby Atmos® puts you in the middle of the action with multi-dimensional surround sound that seems to flow all around you.

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

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

PICTURE (PROCESSING)	
Picture Processor	α7 Gen 3 Processor 4K
Refresh Rate	TruMotion 240 (Native 120Hz)
HDR (High Dynamic Range)	Cinema HDR (Dolby Vision®, HDR10, HLG) Dolby Vision IQ HDR Dynamic Tone Mapping
Contrast	Ultra Luminance
Clarity	Double Step Noise Reduction Sharpness Enhancer
Color	Nano Color Billion Rich Colors* Advanced Color Enhancer True Color Accuracy
Resolution Upscaler	4K Upscaler

GAMING	
FreeSync™	Yes (May not be available at the time of purchase of this product)
VRR (Variable Refresh Rate)	Yes
ALLM (Auto Low Latency Mode)	Yes
HGiG	Yes

AI TV (ARTIFICIAL INTELLIGENCE)	
LG ThinQ® AI	Yes
Google	Google Assistant Built-In "Works with" Google Assistant
Alexa	Alexa Built-In "Works with" Alexa
Apple	Apple Airplay2, Apple Homekit
Intelligent Voice Recognition	Yes
Home Dashboard	Yes
AI Picture Pro / AI Picture	AI Picture
Auto Genre Selection	Yes (Dolby HDR only)

SMART TV	
Operating System	webOS
Magic Remote Control	Yes (Point, Click, Scroll, Voice)
Universal Remote Control	Yes (Auto Device Detection)
LG Channels	Yes
LG Content Store (App Store)	Yes
Full Web Browser	Yes
Gallery Mode	Yes
Sports Alert	Yes

AUDIO	
Speaker System	2.2 Channel : 86", 75" 2.0 Channel : 65", 55"
Output Power	40W (20W Woofer) : 86", 75" 20W : 65", 55"
Speaker Direction	Down Firing
AI Sound Pro / AI Sound	AI Sound
Dolby Atmos	Yes
WISA Ready	Yes (Separate Dongle Purchase Required)
Surround Mode	Ultra Surround
Audio Codec	AC4, AC3 (Dolby Digital), EAC3, HE-AAC, AAC, MP2, MP3, PCM, WMA, apt-X (Refer to manual)
Bluetooth Sound Ready	Yes
LG Sound Sync	Yes

CONNECTIVITY	
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)
HDMI Audio Return Channel (ARC)	eARC (HDMI 3)
USB Ports (v 2.0)	1 (rear) / 2 (side)
RF Connection Input (Antenna/Cable)	1 (rear)
Composite Input (AV)	1 (rear, Gender)
Ethernet Input	1 (rear)
RS-232C Input (Mini Jack)	1 (rear)
Digital Audio Output (Optical)	1 (rear)

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

86NANO90UNA (85.6" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	75.8" x 45.9" x 14.2"
TV Dimensions without Stand (WxHxD)	75.8" x 43.5" x 2.9"
Packaging Dimensions (WxHxD)	83.3" x 47.9" x 10"
Stand Width	64.2"
TV Weight with Stand	116.2 lbs
TV Weight without Stand	114.6 lbs
Packaging Weight	145.5 lbs
VESA Mounting (W x H)	600 x 400
UPC	719192636774

75NANO90UNA (74.5" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	66" x 40.4" x 14.2"
TV Dimensions without Stand (WxHxD)	66" x 38" x 2.9"
Packaging Dimensions (WxHxD)	71.8" x 45.9" x 9.1"
Stand Width	56.9"
TV Weight with Stand	78.5 lbs
TV Weight without Stand	76.9 lbs
Packaging Weight	101.9 lbs
VESA Mounting (W x H)	600 x 400
UPC	719192636767

65NANO90UNA (64.5" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	57.3" x 35.5" x 10.7"
TV Dimensions without Stand (WxHxD)	57.3" x 33.1" x 2.8"
Packaging Dimensions (WxHxD)	65.4" x 38.2" x 6.9"
Stand Width	48.1"
TV Weight with Stand	54 lbs
TV Weight without Stand	53.4 lbs
Packaging Weight	71 lbs
VESA Mounting (W x H)	300 x 300
UPC	719192636743

55NANO90UNA (54.6" DIAGONAL) DIMENSIONS/WEIGHTS/UPC	
TV Dimensions with Stand (WxHxD)	48.7" x 30.4" x 9.1"
TV Dimensions without Stand (WxHxD)	48.7" x 28.2" x 2.8"
Packaging Dimensions (WxHxD)	55.9" x 32.9" x 6.9"
Stand Width	40.8"
TV Weight with Stand	38.6 lbs
TV Weight without Stand	38.1 lbs
Packaging Weight	49.8 lbs
VESA Mounting (W x H)	300 x 300
UPC	719192636736

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

WARRANTY	
Limited Warranty	1 Year Parts & Labor

*Billion Rich Colors is achieved through 10 bit dithering.