

# QN90D Samsung Neo QLED 4K TV



## PRODUCT HIGHLIGHTS

- Quantum Matrix with Mini LEDs
- Neo Quantum HDR+
- Dolby Atmos® and Object Tracking Sound+
- Motion Xcelerator Turbo
- Real Depth Enhancer Pro

## SIZE CLASS

98"

98QN90D



This elite TV features crisp resolution, clear motion and high contrast. It has a brilliant and smooth picture made possible by ultra-fine lighting and brightness.

## KEY FEATURES

### Picture

- Neo Quantum HDR+
- 4K AI Upscaling<sup>1</sup>
- NQ4 AI Gen2 Processor
- Wide Viewing Angle
- 100% Color Volume with Quantum Dot<sup>2</sup>
- Ultimate UHD Dimming
- Quantum Matrix with Mini LEDs
- Motion Xcelerator Turbo
- Auto HDR Remastering
- EyeComfort Mode
- Real Depth Enhancer Pro
- Supersize Picture Enhancer<sup>1</sup>
- HDR Brightness Optimizer
- Customized Picture Mode
- Expert Calibration
- Auto Game Mode (ALLM)
- Super Ultra Wide Game View & Game Bar<sup>3</sup>
- Mini Map Zoom
- Anti-Reflection

### Design

- Neo Slim
- Titan Black Sharp Neck Hexagon Stand

### Smart Features<sup>5</sup>

- Samsung Tizen OS
- Universal Guide
- Ambient Mode+
- Built-In Voice Assistant<sup>11</sup>
- Multi View
- Samsung TV Plus
- SmartThings Compatible<sup>6</sup>
- Samsung Health<sup>7</sup>
- ConnectTime
- Samsung Gaming Hub<sup>4</sup>

### Connections

- 4 HDMI 2.1 Ports<sup>8</sup>
- HDMI 2.1 Features Supported:
  - Auto Low Latency Mode (ALLM), supported on all ports
  - Fixed Rate Link (FRL) 4K@144Hz supported on all ports
  - Variable Refresh Rate (VRR), supported on all ports
  - Enhanced Audio Return Channel (eARC), supported on one port
- 2 USB-A Connections
- LAN Port

- Wi-Fi 5 built-in Wi-Fi
- Bluetooth®5.2
- RS232 Control (Ex-Link)
- IP Control Support<sup>19</sup>
- Optical Audio Output Port

### Audio

- Dolby Atmos® and Object Tracking Sound+
- Q-Symphony<sup>110</sup>
- Active Voice Amplifier Pro
- Adaptive Sound Pro
- Dual Audio Support (Bluetooth)
- 360 Audio
- 60 Watt 4.2.2 Channel

### Included Accessories

- SolarCell Remote® (TM-2360E)

### Industry Certifications

- Filmmaker Mode<sup>12</sup>

<sup>1</sup> Utilizes AI-Based formulas

<sup>2</sup> QLED televisions can produce 100% Color Volume in the DCI-P3 color space, the format for most cinema screens and HDR movies for television.

<sup>3</sup> Super Ultra Wide Game View is supported for PC games only. Super Ultra Wide Game View is only available for ultra wide supported games. Some game titles may not support the function or be limited to use this feature. Screen resolution change from external device may be required.

<sup>4</sup> High speed internet connection, additional gaming service subscriptions and compatible controller required.

<sup>5</sup> Samsung Account required for network-based smart services, including streaming apps and other smart features. Separate [connected] computer, mobile or other device may be necessary to create/log in to Samsung Account (free to download and create). Without Account log in, only external device connections (e.g., via HDMI) and terrestrial/over-the-air TV (only for TVs with tuners) available.<sup>7</sup>

<sup>6</sup> SmartThings compatible devices only. SmartThings app download may be required.

<sup>7</sup> Subscriptions may be required for some services. Smart Trainer support devices may vary by country.

<sup>8</sup> HDMI—CEC (Consumer Electronics Control) facilitates convenient control functions with compatible devices.

<sup>9</sup> Requires third-party control system installation. See [www.samsung.com/us/business/custominstall](http://www.samsung.com/us/business/custominstall).

<sup>10</sup> Q-Symphony requires compatible 2020-2024 Samsung TV and either a Q-series or S-series soundbar.

<sup>11</sup> Alexa is built-in.

<sup>12</sup> FILMMAKER MODE™ logo is a trademark of UHD Alliance, Inc.

**SAMSUNG**

SEE BACK FOR DETAILS

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## TOP 10 KEY FEATURES

### PICTURE

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#### Quantum Matrix with Mini LEDs

Catch every detail in dark to bright scenes. Precise lighting from Mini LEDs boost brightness so you don't miss a thing. It all works to make your picture that much more intense.

#### Neo Quantum HDR+

See sensational contrast, stellar brightness and vivid color—just as the director intended. No exaggeration: the things on screen look true enough to touch. You'll get to absorb all the nuances of the latest Hollywood movies and the shows you love made for High Dynamic Range.

#### Dolby Atmos™ and Object Tracking Sound+

Put yourself in the middle of the action with built-in Dolby Atmos®. When cars are speeding across the screen, 3D sound moves right along with them thanks to Object Tracking Sound.

#### Motion Xcelerator Turbo

Play games and content with smooth motion and virtually no lag or blur. Get uninterrupted action with crisp visuals rendered at top speeds, so you always have a seamless, non-stop picture.

#### Real Depth Enhancer Pro

Experience depth and dimension on screen just like you do in real life. Real Depth Enhancer Pro finds the focal point in each frame and adjusts for a fully dimensional picture.

#### Supersize Picture Enhancer<sup>1</sup>

AI-enhanced picture quality optimized for a super large screen. The Supersize Picture Enhancer reduces noise and increases sharpness, even at its biggest size.

#### 4K AI Upscaling<sup>1</sup>

Content instantly transformed to incredibly sharp up to 4K resolution. Whether you're streaming an HD movie, watching live sports, or looking back at home videos, experience it all transformed into sharp 4K resolution.

#### NQ4 AI Gen2 Processor

The power behind the 4K picture that actively improves the quality. The NQ4 AI Gen2 Processor keeps everything running, using 20 specialized networks to drive the intuitive Smart TV Hub, Dolby Atmos™ sound, and expertly upscaled 4K resolution.

#### Auto HDR Remastering<sup>1</sup>

Elevate your viewing experience with our best 4K color and contrast. AI-based algorithms help create brighter highlights and details.

#### HDR Brightness Optimizer

Dark scenes become detailed so that everything is more visible. The tone of the image adjusts in real time so you can see the screen in any lighting. Plus with improved brightness, you get a rich picture with more to see.

#### Samsung Tizen OS<sup>2</sup>

Stream your favorite shows. Play games. Work out with a trainer. Do all you enjoy with Smart TV Powered by Tizen. Discover your must-have apps and streaming services all just a few clicks away.

<sup>1</sup>Utilizes AI-Based formulas

<sup>2</sup>Samsung Account required for network-based smart services, including streaming apps and other smart features. Separate [connected] computer, mobile or other device may be necessary to create/log in to Samsung Account (free to download and create). Without Account log in, only external device connections (e.g., via HDMI) and terrestrial/over-the-air TV (only for TVs with tuners) available.

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## MODELS

**MODEL:** QN98QN90D  
**ORDER CODE:** QN98QN90DAFXZA

**SCREEN SIZE CLASS:** 98"

**SCREEN DIAGONAL MEASUREMENT:** 97.5"

**UPC CODE:** 887276816869

**COUNTRY OF ORIGIN:** Mexico

**DIMENSIONS (INCHES W x H x D):**

- **TV WITHOUT STAND:** 86 x 49.2 x 1.2
- **TV WITH STAND:** 86 x 51.4 x 14.4
- **SHIPPING:** 93.3 x 55.9 x 10.8
- **STAND FOOTPRINT:** 18.9 x 11.2 x 14.4

**WEIGHT (LB):**

- **TV WITHOUT STAND:** 135.4
- **TV WITH STAND:** 155.6
- **SHIPPING:** 204.4

**VESA SUPPORT:** Yes (600 x 400)

**ACCESSORIES INCLUDED IN BOX:**

- **REMOTE MODEL:** TM2360E
- **POWER CABLE**
- **USER MANUAL**