



PRODUCT HIGHLIGHTS

- Quantum Matrix with Mini LEDs
- Neo Quantum HDR+¹⁶
- Dolby Atmos® and Object Tracking Sound+
- Motion Xcelerator Turbo 144Hz³
- Real Depth Enhancer Pro

SIZE CLASS

- | | | |
|----------------|----------------|----------------|
| 85"
85QN90D | 75"
75QN90D | 65"
65QN90D |
| 55"
55QN90D | 50"
50QN90D | 43"
43QN90D |



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+¹⁶
- 4K AI Upscaling¹
- Ultra Viewing Angle (85", 75", 65", 55")²
- NQ4 AI Gen2 Processor
- 100% Color Volume with Quantum Dot⁴
- Ultimate UHD Dimming
- Quantum Matrix with Mini LEDs
- Motion Xcelerator 144Hz³
- Auto HDR Remastering
- EyeComfort Mode
- Real Depth Enhancer Pro
- HDR Brightness Optimizer
- Customized Picture Mode
- Expert Calibration
- Auto Game Mode (ALLM)
- Super Ultra Wide Game View & Game Bar¹⁵
- Mini Map Zoom
- Anti-Reflection

Design

- Neo Slim
- Titan Black Sharp Neck Hexagon Stand

Smart Features⁶

- Samsung Tizen OS
- Universal Guide
- Ambient Mode+
- Built-In Voice Assistant¹³
- Multi View
- Samsung TV Plus
- SmartThings Compatible⁷
- Samsung Health⁸
- ConnectTime
- Samsung Gaming Hub⁵

Connections

- 4 HDMI 2.1 Ports⁹
- 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 Support¹⁰
- Optical Audio Output Port

Audio

- Dolby Atmos® and Object Tracking Sound+¹⁷
- Q-Symphony¹¹
- Active Voice Amplifier Pro
- Adaptive Sound Pro
- Dual Audio Support (Bluetooth)
- 360 Audio
- 60 Watt 4.2.2 Channel¹²

Included Accessories

- SolarCell Remote® (TM-2360E)

Industry Certifications

- Filmmaker Mode¹⁴

¹ Utilizes AI-Based formulas

² 98", 50", 43" Supports Wide Viewing Angle

³ 144Hz requires compatible content connection from compatible PCs. Motion Xcelerator 144Hz is sometimes called Motion Xcelerator Turbo+.

⁴ QLED televisions can produce 100% Color Volume in the DCI-P3 color space, the format for most cinema screens and HDR movies for television.

⁵ High speed Internet connection, additional gaming service subscriptions and compatible controller required.

⁶ 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.

⁷ SmartThings compatible devices only. SmartThings app download may be required.

⁸ Subscriptions may be required for some services. Smart Trainer support devices may vary by country.

⁹ HDMI—CEC (Consumer Electronics Control) facilitates convenient control functions with compatible devices.

¹⁰ Requires third-party control system installation. See www.samsung.com/us/business/custominstall.

¹¹ Q-Symphony requires compatible 2020-2024 Samsung TV and either a Q-series or S-series soundbar.

¹² 60 Watt 4.2.2CH on 98", 85", 75", 65". 40 Watt 2.2CH on 50". 20 Watt 2CH on 43".

¹³ Alexa is built-in.

¹⁴ FILMMAKER MODE™ logo is a trademark of UHD Alliance, Inc.

¹⁵ 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.

¹⁶ QN90D 50" and 43" have Neo Quantum HDR.

¹⁷ QN90D 50" and 43" have Object Tracking Sound Lite.

TOP 10 KEY FEATURES

PICTURE

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+⁴

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+⁵

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 144Hz²

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.

4K AI Upscaling¹

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 Remastering¹

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 OS³

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.

¹Utilizes AI-Based formulas

²144Hz requires compatible content connection from compatible PCs. Motion Xcelerator 144Hz is sometimes called Motion Xcelerator Turbo+.

³Samsung 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.

⁴QN90D 50" and 43" have Neo Quantum HDR.

⁵QN90D 50" and 43" have Object Tracking Sound Lite.

MODELS

MODEL: QN85QN90D
ORDER CODE: QN85QN90DAFXZA

SCREEN SIZE CLASS: 85"

SCREEN DIAGONAL MEASUREMENT: 84.5"

UPC CODE: 887276816852

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):

- **TV WITHOUT STAND:** 74.5 x 42.6 x 1.1
- **TV WITH STAND:** 74.5 x 45 x 12.6
- **SHIPPING:** 84.3 x 49 x 9.1
- **STAND FOOTPRINT:** 16.4 x 10.5 x 12.6

WEIGHT (LB):

- **TV WITHOUT STAND:** 95.9
- **TV WITH STAND:** 110
- **SHIPPING:** 139.6

VESA SUPPORT: Yes (600 x 400)

ACCESSORIES INCLUDED IN BOX:

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

MODEL: QN75QN90D
ORDER CODE: QN75QN90DAFXZA

SCREEN SIZE CLASS: 75"

SCREEN DIAGONAL MEASUREMENT: 74.5"

UPC CODE: 887276816845

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):

- **TV WITHOUT STAND:** 65.7 x 37.7 x 1.1
- **TV WITH STAND:** 65.7 x 40 x 11.9
- **SHIPPING:** 74.2 x 44 x 7.5
- **STAND FOOTPRINT:** 16.4 x 10.4 x 11.9

WEIGHT (LB):

- **TV WITHOUT STAND:** 75.2
- **TV WITH STAND:** 87.5
- **SHIPPING:** 110.7

VESA SUPPORT: Yes (400 x 400)

ACCESSORIES INCLUDED IN BOX:

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



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MODELS

MODEL: QN65QN90D
ORDER CODE: QN65QN90DAFXZA

SCREEN SIZE CLASS: 65"

SCREEN DIAGONAL MEASUREMENT: 64.5"

UPC CODE: 887276816838

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):

- **TV WITHOUT STAND:** 56.9 x 32.6 x 1.1
- **TV WITH STAND:** 56.9 x 35.1 x 10.7
- **SHIPPING:** 63.9 x 36.8 x 7.3
- **STAND FOOTPRINT:** 15.4 x 9.3 x 10.7

WEIGHT (LB):

- **TV WITHOUT STAND:** 53.4
- **TV WITH STAND:** 60.6
- **SHIPPING:** 78

VESA SUPPORT: Yes (400 x 300)

ACCESSORIES INCLUDED IN BOX:

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

MODEL: QN55QN90D
ORDER CODE: QN55QN90DAFXZA

SCREEN SIZE CLASS: 55"

SCREEN DIAGONAL MEASUREMENT: 54.6

UPC CODE: 887276816821

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):

- **TV WITHOUT STAND:** 48.3 x 27.8 x 1.1
- **TV WITH STAND:** 48.3 x 30.2 x 9.3
- **SHIPPING:** 57 x 32.5 x 6.7
- **STAND FOOTPRINT:** 15.3 x 8.5 x 9.3

WEIGHT (LB):

- **TV WITHOUT STAND:** 39
- **TV WITH STAND:** 45.4
- **SHIPPING:** 57.8

VESA SUPPORT: Yes (200x 200)

ACCESSORIES INCLUDED IN BOX:

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



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MODELS

MODEL: QN50QN90D
ORDER CODE: QN50QN90DAFXZA

SCREEN SIZE CLASS: 50"

SCREEN DIAGONAL MEASUREMENT: 49.5"

UPC CODE: 887276816814

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):

- **TV WITHOUT STAND:** 43.8 x 25.4 x 1.1
- **TV WITH STAND:** 43.8 x 27.8 x 8.7
- **SHIPPING:** 51.9 x 30.2 x 5.5
- **STAND FOOTPRINT:** 20.4 x 8.6 x 8.7

WEIGHT (LB):

- **TV WITHOUT STAND:** 29.8
- **TV WITH STAND:** 38.8
- **SHIPPING:** 49.6

VESA SUPPORT: Yes (200 x 200)

ACCESSORIES INCLUDED IN BOX:

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

MODEL: QN43QN90D
ORDER CODE: QN43QN90DAFXZA

SCREEN SIZE CLASS: 43"

SCREEN DIAGONAL MEASUREMENT: 42.5"

UPC CODE: 887276816807

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):

- **TV WITHOUT STAND:** 37.8 x 22 x 1.1
- **TV WITH STAND:** 37.8 x 24.4 x 8.7
- **SHIPPING:** 45.8 x 26.3 x 5.5
- **STAND FOOTPRINT:** 20.4 x 8.6 x 8.7

WEIGHT (LB):

- **TV WITHOUT STAND:** 20.7
- **TV WITH STAND:** 29.5
- **SHIPPING:** 38.6

VESA SUPPORT: Yes (200 x 200)

ACCESSORIES INCLUDED IN BOX:

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



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