

QN90BD TV



PRODUCT HIGHLIGHTS

- Quantum Matrix with Mini LEDs
- Quantum HDR 32x¹⁴
- Neo Quantum Processor with 4K Upscaling
- Ultra Viewing Angle with Anti-Reflection¹⁷
- Dolby Atmos and Object Tracking Sound+¹⁶

SIZE CLASS

- 85" 85QN90BD
- 75" 75QN90BD
- 65" 65QN90BD
- 55" 55QN90BD
- 50" 50QN90BD
- 43" 43QN90BD



Enjoy life-like 4K brilliance and almost no glare with premium Samsung Neo QLED. See how Quantum HDR 32X makes a billion colors burst off the screen, all from a matrix of precision Mini LEDs—while the Neo Quantum Processor expertly upscales what you watch to 4K, and refines your Smart TV Hub and sound.

KEY FEATURES

Picture

- Quantum Matrix with Mini LEDs
- 4K Resolution
- 4K AI Upscaling
- Quantum HDR 32x¹⁴
- Neo Quantum Processor 4K
- 100% Color Volume with Quantum Dot¹
- Ultimate UHD Dimming
- Motion Xcelerator Turbo+ (85", 75", 65", 55")
- Motion Xcelerator Turbo Pro (50", 43")
- Ultra Viewing Angle¹⁵
- Real Depth Enhancer
- Anti-Reflection¹⁷
- Optimized Eye Comfort Mode
- Expert Calibration
- FreeSync Premium Pro
- Auto Game Mode (ALLM)
- Super Ultrawide GameView & Game Bar²

Design

- Neo Slim
- Sand Black Bending Plate Stand

Smart Features

- Smart TV Powered by Tizen
- Universal Guide
- Ambient Mode+³
- Multiple Voice Assistants⁴
- Samsung TV Plus
- Multi View⁵
- SolarCell Remote™⁶
- SmartThings Compatible⁷
- Samsung Health⁸
- Google Duo
- Music Wall

Connections

- 4 HDMI Ports¹⁰
- HDMI 2.1 Features Supported:
 - Auto Low Latency Mode (ALLM), supported on all ports
 - Fixed Rate Link (FRL) 4K@120Hz¹⁸ supported on all ports
 - Variable Refresh Rate (VRR), supported on all ports
 - Enhanced Audio Return Channel (eARC), supported on one port
- 2 USB 2.0 Connections
- LAN Port

- Wi-Fi 5 built-in Wi-Fi
- Bluetooth®
- RS232 Control (Ex-Link)
- IP Control Support¹¹
- Optical Audio Output Port

Audio

- Dolby Atmos and Object Tracking Sound+¹⁶
- Q-Symphony¹²
- Active Voice Amplifier
- 70 Watt 4.2.2 Channel⁹

Included Accessories

- SolarCell Remote™ (TM-2280E)

Industry Certifications

- NextGen TV¹³
- Filmmaker Mode
- 4K UHD Connected

¹QLED televisions can produce 100% Color Volume in the DCI-P3 color space, the format for most cinema screens and HDR movies for television.

²Best experience with PC games supporting UltraWide GameView.

³Background feature accuracy may vary based on TV location and is dependent on wall designs, patterns and/or colors. SmartThings app on a mobile device (Android, iOS) is required for some functionality. App features may be limited at launch; please continue to check for updates.

⁴Amazon, Alexa, and all related logos are trademarks of Amazon.com, Inc. or its affiliates. Google and YouTube are trademarks of Google LLC. This service may not yet be available at the time of purchase of this product. Apple and related marks and logos are trademarks of Apple Inc. This Samsung TV supports AirPlay 2 and requires iOS 12.3 or later or macOS 10.14.5 or later.

⁵Feature availability will vary by mobile device.

⁶Remote color and design may vary by model.

⁷SmartThings compatible devices only. SmartThings app download may be required. Compatible with Zigbee Dongle's SKU is VG-STDB10A/ZA.

⁸Subscriptions may be required for some services.

⁹50" has 40W 2CH

¹⁰HDMI-CEC (Consumer Electronics Control) facilitates convenient control functions with compatible devices.

¹¹Requires third-party control system installation. See www.samsung.com/us/business/custominstall.

¹²Samsung Q-Symphony is compatible with 2020-2022 Samsung QLED. For a complete list of compatible models, please refer to samsung.com for more information.

¹³The NextGen TV logo is an unregistered trademark of the Consumer Technology Association and is used by permission.

¹⁴50" and 43" have Quantum HDR 24x

¹⁵50" and 43" have Wide Viewing Angle

¹⁶50" and 43" have OTS Lite

¹⁷50" and 43" do not have Anti-Reflection

¹⁸50" and 43" supports up to 4K@144Hz

SAMSUNG

SEE BACK FOR DETAILS

KEY FEATURES (page 1 of 2)

PICTURE

Quantum Matrix with Mini LEDs

Brilliant details shine even in daylight with Quantum Matrix Technology. Powered by a huge grid of Samsung's ultra-precise Quantum Mini LEDs, it takes exact control of the individual zones of light in your picture for breathtaking color and contrast.

4K Resolution with AI Upscaling

See everything you watch instantly transformed to incredibly sharp 4K resolution.

Quantum HDR 32x²⁷

Every detail bursts to life with the realistic contrast and brilliance the director intended.

Neo Quantum Processor 4K

See all you enjoy upscaled to spectacular 4K with the AI-based processor.

100% Color Volume with Quantum Dot¹⁹

Get a billion brilliant colors that stay true even in bright scenes.

Anti-Reflection²⁹

Virtually reflection-free to enjoy shows without distractions.

Motion Xcelerator Turbo+³⁰

Action movies, sports and games look smooth and fluid up to 4K at 120Hz.

Ultra Viewing Angle²⁸

You've got the best view from every seat, no matter where you sit down.

Eye Comfort Mode

Enjoy an optimized display without lifting a finger. Its lighting system evaluates the brightness of your space to tailor your screen contrast.

FreeSync Premium Pro

Take down game lag and stuttering—with your TV and console teaming up.

Auto Game Mode (ALLM)

Ultra-low latency means less lag, less drag and more time to win.

Super Ultrawide GameView & Game Bar²⁰

Expand your game view and optimize how you play with these winning features.

Ultimate UHD Dimming Pro

Details get intense with the incredible contrast from precision Quantum Mini LEDs.

Expert Calibration

Expertly mastered, your picture delivers high-fidelity color on delivery.

Real Depth Enhancer

Experience depth and dimension on screen just like you do in real life.

DESIGN

Neo Slim Design

Beautiful from all angles, this TV was made to blend into any room of your home.

SMART FEATURES

Smart Hub

Spend less time searching and more time streaming what you enjoy with Smart Hub.

Smart TV Powered by Tizen

Spend less time searching and more time streaming what you enjoy with Smart Hub.

Universal Guide

Get tailored recommendations for streaming and live TV all in one place with a simple on-screen guide.

Ambient Mode+²¹

Transform your blank screen into the ultimate centerpiece with Ambient Mode+.

Multiple Voice Assistants²²

Just speak up—your favorite Voice Assistant is built in and ready to help.

Samsung TV Plus

Turn on and tune into free live TV with just your WiFi connection. No subscription necessary.

Multi View²³

Watch up to two things at once on your TV, including what's on your mobile device.

SolarCell Remote²⁴

The rechargeable SolarCell Remote makes it easy to access and control all of your compatible connected devices with one simple remote. Includes RF harvesting to charge the remote using signals like wifi

SmartThings Compatible²⁵

Take control of your connected devices with SmartThings on your screen.

Samsung Health²⁶

Discover how a healthy and balanced lifestyle is within view—Samsung Health tools can help.

Music Wall

Create a mesmerizing mood that matches your music, no matter your playlist. When the TV's off, turn on a captivating visual experience that moves to the beat of your music.

¹⁹QLED televisions can produce 100% Color Volume in the DCI-P3 color space, the format for most cinema screens and HDR movies for television.

²⁰Best experience with PC games supporting UltraWide GameView.

²¹Background feature accuracy may vary based on TV location and is dependent on wall designs, patterns and/or colors. SmartThings app on a mobile device (Android, iOS) is required for some functionality. App features may be limited at launch; please continue to check for updates.

²²Amazon, Alexa, and all related logos are trademarks of Amazon.com, Inc. or its affiliates. Google and YouTube are trademarks of Google LLC. This service may not yet be available at the time of purchase of this product. Apple and related marks and logos are trademarks of Apple Inc. This Samsung TV supports AirPlay 2 and requires iOS 12.3 or later or macOS 10.14.5 or later.

²³Feature availability will vary by mobile device.

²⁴Remote color and design may vary by model.

²⁵SmartThings compatible devices only. SmartThings app download may be required. Compatible with Zigbee Dongle's SKU is VG-STDB10A/ZA.

²⁶Subscription may be required.

²⁷50" and 43" have Quantum HDR 24x

²⁸50" and 43" have Wide Viewing Angle

²⁹50" and 43" do not have Anti-Reflection

³⁰50" and 43" supports up to 4K @ 144hz

KEY FEATURES (page 2 of 2)

CONNECTIONS

HDMI³²

Connect up to 4 devices with HDMI.

Wi-Fi

Enjoy your favorite on-demand content seamlessly through your existing network with built-in Wi-Fi (Wi-Fi 5).

AUDIO

Object Tracking Sound +³¹

Experience vividly realistic 3D sound that puts you in the middle of the action.

Q-Symphony³³

Surround yourself with the sound of your TV and soundbar working in harmony.

Active Voice Amplifier

Made to cut down outside noise, it compares the volume of the sound on screen with your environment so you can catch the words loud and clear.

Dolby Atmos

Be enveloped by the spectacular cinematic surround sound of Dolby Atmos built right into the TV.

INCLUDED ACCESSORIES

SolarCell Remote™ TM-2280E

Power Cable

User Manual / E-Manual

INDUSTRY CERTIFICATIONS

NextGen TV³⁴

CTA's NextGen TV logo is for devices meeting ATSC 3.0 interoperability test specifications. NextGen TV unlocks new features, additional content—and more control—for broadcast viewers.

4K UHD Connected

All Samsung 2021 4K UHD and QLED televisions comply with the CTA 4K Ultra High-Definition Connected definition requirements. The trade organization known as the Consumer Technology Association (CTA™) is considered an industry authority on engineering standards for consumer electronics in the United States. Visit www.cta.tech for more information.

Filmmaker Mode

Watch your movies and TV shows the way the filmmakers intended. This new picture mode preserves the director's creative intent and provides a cinematic experience.

³¹50" and 43" have OTS Lite

³²HDMI—CEC (Consumer Electronics Control) facilitates convenient control functions with compatible devices.

³³Q-Symphony is available only with compatible soundbar. Check for Q-Symphony compatibility on soundbar product specifications.

³⁴The NextGen TV logo is an unregistered trademark of the Consumer Technology Association and is used by permission

QN90BD TV

MODELS

MODEL: QN85QN90BD
ORDER CODE: QN85QN90BDFXZA

SCREEN SIZE CLASS: 85"

SCREEN DIAGONAL MEASUREMENT: 84.5"

UPC CODE: 887276638317

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 45.1 x 14.4
- **SHIPPING:** 82.2 x 49.9 x 8.8
- **STAND FOOTPRINT:** 16.9 x 10.5 x 14.4

WEIGHT (LB):

- **TV WITHOUT STAND:** 98.1
- **TV WITH STAND:** 125
- **SHIPPING:** 154.3

VESA SUPPORT: Yes (600 x 400)

ACCESSORIES INCLUDED IN BOX:

- **REMOTE MODEL:** TM-2280E
- **POWER CABLE**
- **USER MANUAL / E MANUAL**

MODEL: QN75QN90BD
ORDER CODE: QN75QN90BDFXZA

SCREEN SIZE CLASS: 75"

SCREEN DIAGONAL MEASUREMENT: 74.5"

UPC CODE: 887276638300

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 40.2 x 12.5
- **SHIPPING:** 72.5 x 44.4 x 7.8
- **STAND FOOTPRINT:** 15.4 x 10.5 x 12.5

WEIGHT (LB):

- **TV WITHOUT STAND:** 77.2
- **TV WITH STAND:** 98.8
- **SHIPPING:** 121.3

VESA SUPPORT: Yes (400 x 400)

ACCESSORIES INCLUDED IN BOX:

- **REMOTE MODEL:** TM-2280E
- **POWER CABLE**
- **USER MANUAL / E MANUAL**

QN90BD TV

MODEL

MODEL: QN65QN90BD
ORDER CODE: QN65QN90BDFXZA

SCREEN SIZE CLASS: 65"

SCREEN DIAGONAL MEASUREMENT: 64.5"

UPC CODE: 887276638294

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):

- **TV WITHOUT STAND:** 56.9 x 32.6 x 1
- **TV WITH STAND:** 56.9 x 35.1 x 11.2
- **SHIPPING:** 63.8 x 37.3 x 7.3
- **STAND FOOTPRINT:** 13.4 x 9.3 x 11.2

WEIGHT (LB):

- **TV WITHOUT STAND:** 53.8
- **TV WITH STAND:** 69.2
- **SHIPPING:** 86.9

VESA SUPPORT: Yes (400 x 300)

ACCESSORIES INCLUDED IN BOX:

- **REMOTE MODEL:** TM-2280E
- **POWER CABLE**
- **USER MANUAL**

MODEL: QN55QN90BD
ORDER CODE: QN55QN90BDFXZA

SCREEN SIZE CLASS: 55"

SCREEN DIAGONAL MEASUREMENT: 54.6"

UPC CODE: 887276638270

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):

- **TV WITHOUT STAND:** 48.3 x 27.8 x 1
- **TV WITH STAND:** 48.3 x 30.2 x 9.3
- **SHIPPING:** 55.5 x 33.2 x 7
- **STAND FOOTPRINT:** 11.8 x 8.5 x 9.3

WEIGHT (LB):

- **TV WITHOUT STAND:** 39
- **TV WITH STAND:** 48.3
- **SHIPPING:** 61.7

VESA SUPPORT: Yes (200 x 200)

ACCESSORIES INCLUDED IN BOX:

- **REMOTE MODEL:** TM-2280E
- **POWER CABLE**
- **USER MANUAL**

QN90BD TV

MODEL

MODEL: QN50QN90BD
ORDER CODE: QN50QN90BDFXZA

SCREEN SIZE CLASS: 50"

SCREEN DIAGONAL MEASUREMENT: 49.5"

UPC CODE: 887276638263

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 27.9 x 8.8
- **SHIPPING:** 49.6 x 30.4 x 5.7
- **STAND FOOTPRINT:** 18.3 x 8.7 x 8.8

WEIGHT (LB):

- **TV WITHOUT STAND:** 30.9
- **TV WITH STAND:** 41
- **SHIPPING:** 48.5

VESA SUPPORT: Yes (200 x 200)

ACCESSORIES INCLUDED IN BOX:

- **REMOTE MODEL:** TM-2280E
- **POWER CABLE**
- **USER MANUAL**

MODEL: QN43QN90BD
ORDER CODE: QN43QN90BDFXZA

SCREEN SIZE CLASS: 50"

SCREEN DIAGONAL MEASUREMENT: 49.5"

UPC CODE: 887276638256

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 24.5 x 8.8
- **SHIPPING:** 43.5 x 27 x 5.7
- **STAND FOOTPRINT:** 18.3 x 8.7 x 8.8

WEIGHT (LB):

- **TV WITHOUT STAND:** 20.3
- **TV WITH STAND:** 30.4
- **SHIPPING:** 38.8

VESA SUPPORT: Yes (200 x 200)

ACCESSORIES INCLUDED IN BOX:

- **REMOTE MODEL:** TM-2280E
- **POWER CABLE**
- **USER MANUAL**