

# QN90BD TV



## PRODUCT HIGHLIGHTS

- Quantum Matrix with Mini LEDs
- Quantum HDR 32x<sup>14</sup>
- Neo Quantum Processor with 4K Upscaling
- Ultra Viewing Angle with Anti-Reflection<sup>17</sup>
- Dolby Atmos and Object Tracking Sound+<sup>16</sup>

## 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 32x<sup>14</sup>
- Neo Quantum Processor 4K
- 100% Color Volume with Quantum Dot<sup>1</sup>
- Ultimate UHD Dimming
- Motion Xcelerator Turbo+ (85", 75", 65", 55")
- Motion Xcelerator Turbo Pro (50", 43")
- Ultra Viewing Angle<sup>15</sup>
- Real Depth Enhancer
- Anti-Reflection<sup>17</sup>
- Optimized Eye Comfort Mode
- Expert Calibration
- FreeSync Premium Pro
- Auto Game Mode (ALLM)
- Super Ultrawide GameView & Game Bar<sup>2</sup>

### Design

- Neo Slim
- Sand Black Bending Plate Stand

### Smart Features

- Smart TV Powered by Tizen
- Universal Guide
- Ambient Mode+<sup>3</sup>
- Multiple Voice Assistants<sup>4</sup>
- Samsung TV Plus
- Multi View<sup>5</sup>
- SolarCell Remote™<sup>6</sup>
- SmartThings Compatible<sup>7</sup>
- Samsung Health<sup>8</sup>
- Google Duo
- Music Wall

### Connections

- 4 HDMI Ports<sup>10</sup>
- HDMI 2.1 Features Supported:
  - Auto Low Latency Mode (ALLM), supported on all ports
  - Fixed Rate Link (FRL) 4K@120Hz<sup>18</sup> 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 Support<sup>11</sup>
- Optical Audio Output Port

### Audio

- Dolby Atmos and Object Tracking Sound+<sup>16</sup>
- Q-Symphony<sup>12</sup>
- Active Voice Amplifier
- 70 Watt 4.2.2 Channel<sup>9</sup>

### Included Accessories

- SolarCell Remote™ (TM-2280E)

### Industry Certifications

- NextGen TV<sup>13</sup>
- Filmmaker Mode
- 4K UHD Connected

<sup>1</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>2</sup>Best experience with PC games supporting UltraWide GameView.

<sup>3</sup>Background 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.

<sup>4</sup>Amazon, 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.

<sup>5</sup>Feature availability will vary by mobile device.

<sup>6</sup>Remote color and design may vary by model.

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

<sup>8</sup>Subscriptions may be required for some services.

<sup>9</sup>50" has 40W 2CH

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

<sup>11</sup>Requires third-party control system installation. See [www.samsung.com/us/business/custominstall](http://www.samsung.com/us/business/custominstall).

<sup>12</sup>Samsung Q-Symphony is compatible with 2020-2022 Samsung QLED. For a complete list of compatible models, please refer to [samsung.com](http://samsung.com) for more information.

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

<sup>14</sup>50" and 43" have Quantum HDR 24k

<sup>15</sup>50" and 43" have Wide Viewing Angle

<sup>16</sup>50" and 43" have OTS Lite

<sup>17</sup>50" and 43" do not have Anti-Reflection

<sup>18</sup>50" 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 32x<sup>27</sup>

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 Dot<sup>19</sup>

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

#### Anti-Reflection<sup>29</sup>

Virtually reflection-free to enjoy shows without distractions.

#### Motion Xcelerator Turbo+<sup>30</sup>

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

#### Ultra Viewing Angle<sup>28</sup>

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 Bar<sup>20</sup>

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+<sup>21</sup>

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

#### Multiple Voice Assistants<sup>22</sup>

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 View<sup>23</sup>

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

#### SolarCell Remote<sup>24</sup>

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 Compatible<sup>25</sup>

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

#### Samsung Health<sup>26</sup>

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.

<sup>19</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>20</sup>Best experience with PC games supporting UltraWide GameView.

<sup>21</sup>Background 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.

<sup>22</sup>Amazon, 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.

<sup>23</sup>Feature availability will vary by mobile device.

<sup>24</sup>Remote color and design may vary by model.

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

<sup>26</sup>Subscription may be required.

<sup>27</sup>50" and 43" have Quantum HDR 24x

<sup>28</sup>50" and 43" have Wide Viewing Angle

<sup>29</sup>50" and 43" do not have Anti-Reflection

<sup>30</sup>50" and 43" supports up to 4K @ 144hz

## KEY FEATURES (page 2 of 2)

### CONNECTIONS

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#### HDMI<sup>32</sup>

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

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#### Object Tracking Sound +<sup>31</sup>

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

#### Q-Symphony<sup>33</sup>

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

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#### SolarCell Remote™ TM-2280E

#### Power Cable

#### User Manual / E-Manual

### INDUSTRY CERTIFICATIONS

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#### NextGen TV<sup>34</sup>

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](http://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.

<sup>31</sup>50" and 43" have OTS Lite

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

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

<sup>34</sup>The 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**