

# QN90A TV



## PRODUCT HIGHLIGHTS

- Quantum Matrix Technology
- Samsung Neo Quantum Processor 4K
- Quantum HDR 32X<sup>1</sup>
- Object Tracking Sound+<sup>2</sup>
- Motion Xcelerator Turbo+<sup>21</sup>

## SIZE CLASS

- 85" 85QN90A
- 75" 75QN90A
- 65" 65QN90A
- 55" 55QN90A
- 50" 50QN90A
- 43" 43QN90A



Our best 4K picture offers lush visuals and crisp detail that create an unmatched cinematic experience.

## KEY FEATURES

### Picture

- Quantum Matrix Technology
- 4K UHD
- 4K AI Upscaling<sup>3</sup>
- Quantum HDR 32X<sup>1</sup>
- Samsung Neo Quantum Processor 4K
- Anti-Reflection
- 100% Color Volume with Quantum Dot<sup>4</sup>
- Ultimate UHD Dimming
- Motion Xcelerator Turbo+<sup>21</sup>
- Expert Calibration
- Ultra Viewing Angle<sup>5</sup>
- Adaptive Picture™
- FreeSync Premium Pro<sup>20</sup>
- Auto Game Mode (ALLM)
- Super Ultrawide GameView & Game Bar<sup>6</sup>

### Design

- NeoSlim Design
- Sand Black Bending Plate Stand

### Smart Features

- Smart TV Powered by Tizen
- Universal Guide
- Ambient Mode+<sup>7</sup>
- Multiple Voice Assistants<sup>8</sup>
- TV Plus
- Multi View<sup>9</sup>
- SolarCell Remote™<sup>10</sup>
- SmartThings Compatible<sup>11</sup>
- Samsung Health<sup>12</sup>
- PC on TV<sup>13</sup>

### Connections

- 4 HDMI Ports<sup>14</sup>
- HDMI 2.1 Features Supported:
  - Auto Low Latency Mode (ALLM), supported on all ports
  - Fixed Rate Link (FRL) 4K@120Hz/4K@60Hz, supported on port number 4<sup>22</sup>
  - Variable Refresh Rate (VRR), supported on all ports<sup>23</sup>
  - Enhanced Audio Return Channel (eARC), supported on port number 3
- 2 USB Connections
- LAN Port

- 802.11AC built-in Wi-Fi
- Bluetooth®
- RS232 Control (Ex-Link)
- IP Control Support<sup>15</sup>
- Optical Audio Output Port

### Audio

- Object Tracking Sound™<sup>16</sup>
- Q-Symphony<sup>17</sup>
- SpaceFit Sound
- Active Voice Amplifier
- Dolby® Digital Plus
- 60 Watt 2.2.2 Channel<sup>18</sup>

### Included Accessories

- SolarCell Remote™ (TM-2180E)

### Industry Certifications

- NextGen TV<sup>19</sup>
- CTA 4K UHD Connected
- Filmmaker Mode

<sup>1</sup>Quantum HDR 24X on 50" & 43" models. <sup>2</sup>Not available on 50" & 43" model. <sup>3</sup>Upscales to 4K Resolution. Resulting picture may vary based on source content. Utilizes AI-based formulas. <sup>4</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>5</sup>50" & 43" model has wide viewing angle. Not available on the 43" model. <sup>6</sup>Best experience with games supporting UltraWide GameView. <sup>7</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>8</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>9</sup>Feature availability will vary by mobile device. <sup>10</sup>Remote color and design may vary by model. <sup>11</sup>SmartThings compatible devices only. SmartThings app download may be required. <sup>12</sup>Subscriptions may be required for some services. <sup>13</sup>Compatible with certain PC and mobile devices. For a complete list of compatible devices, please refer to [samsung.com](http://samsung.com) for more information. <sup>14</sup>HDMI—CEC (Consumer Electronics Control) facilitates convenient control functions with compatible devices. <sup>15</sup>Requires third-party control system installation. See [www.samsung.com/us/business/custominstall](http://www.samsung.com/us/business/custominstall). <sup>16</sup>Not available on 50" or 43" model. <sup>17</sup>Samsung Symphony is compatible with 2020 and 2021 Samsung QLED. For a complete list of compatible models, please refer to [samsung.com](http://samsung.com) for more information. <sup>18</sup>40 Watt 2.2 Channel on 50" model. <sup>20</sup>Watt 2 Channel on 43" model. <sup>19</sup>The NextGen TV logo is an unregistered trademark of the Consumer Technology Association and is used by permission. <sup>20</sup>Not available on the 43" model. <sup>21</sup>43" has Motion Xcelerator. <sup>22</sup>4K@120 FPS not supported on 43" model. <sup>23</sup>VRR not supported on 43" model.

**SAMSUNG**

SEE BACK FOR DETAILS

## KEY FEATURES (page 1 of 2)

### PICTURE

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#### Quantum Matrix Technology

Ultra-precise contrast with game-changing mesh light control.

#### 4K UHD

See what you've been missing on a crisp, clear picture that's 4X the resolution of Full HD.

#### 4K AI Upscaling

Instantly transforms everything you watch to 4K.

#### Quantum HDR 32X

Brilliant color combined with ultra-dark details delivers a mesmerizing, realistic picture with spectacular clarity.

#### Samsung Neo Quantum Processor 4K

Upgrade every picture to 4K quality with powerfully intelligent multi-layered neural networks.

#### Anti-Reflection

Never miss a beat with minimized glare that reduces distractions.

#### 100% Color Volume with Quantum Dot

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

#### Supreme UHD Dimming

Precisely scans an incredible amount of zones across the entire image and adjusts brightness to deliver deeper darks and brighter whites.

#### Motion Xcelerator Turbo+

Action-packed movies, sports and games are smooth and crisp with minimized motion blur.

#### Expert Calibration

Get an accurate picture with professional-grade picture calibration that delivers true color.

#### Ultra Viewing Angle

No matter where you sit, every seat is the best seat with a clear, vibrant picture.

#### Adaptive Picture™

Get an optimized picture effortlessly with a lighting system that automatically senses, reacts, and adjusts to the brightness of the space you're in.

#### FreeSync Premium Pro

Dominate the game with less lag, tearing, and stuttering provided by seamless cooperation between your TV and console.

#### Auto Game Mode (ALLM)

Game faster with an optimized screen that gives you more control with dramatically less lag.

#### Super Ultrawide GameView & Game Bar

Built-in compatibility with multiple aspect ratios helps you level up your PC gaming and more.

### DESIGN

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#### NeoSlim Design

Beautiful lines and a gradually curved back panel make this TV the perfect compliment to any room.

### SMART FEATURES

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#### Smart TV Powered by Tizen

Go beyond Smart TV with next-gen apps, streaming services, advanced controls, and more.

#### Universal Guide

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

#### Ambient Mode+

Turn the blank screen into a display for captivating photos that play to your aesthetic.

#### Multiple Voice Assistants

Go beyond Smart TV with next-gen apps, streaming services, advanced controls, voice assistances, and more.

#### TV Plus

Enjoy subscription-free TV, movies, sports with 150 channels and growing.

#### Multi View

Stream your favorite TV show and mirror your compatible phone all on one screen, with multiple sound and layout options.

#### SolarCell Remote™

The rechargeable SolarCell Remote makes it easy to access and control all of your compatible connected devices with one simple remote.

#### SmartThings Compatible

Seamlessness is simple with SmartThings that automatically detects, instantly connects to, and intuitively presents all your compatible devices around your TV.

#### Samsung Health

Master your wellness routine with content from fitness partners and daily stats from the Samsung Health app.

#### PC on TV

Easily access your compatible PC, laptop, and mobile content seamlessly on your TV.

## KEY FEATURES (page 2 of 2)

### CONNECTIONS

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#### HDMI

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 (802.11AC).

### AUDIO

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#### Object Tracking Sound™

Dynamic built-in speakers adjust the sound to follow the action.

#### Q-Symphony

Relive the cinema experience with rich, synchronized sound that flows from your TV and sound bar in perfect harmony.

#### SpaceFit Sound

Get a tailored sound experience with sensors that optimize it based on the acoustics of your space.

#### Active Voice Amplifier

Catch every word with the unique Active Voice Amplifier, which detects noise disruptions and automatically boosts the dialogue.

#### Dolby® Digital Plus

Enjoy the ultimate digital sound quality on all of your favorite movies, TV shows and streaming content. Dolby Digital Plus optimizes your entertainment experience with enhanced sound richness and clarity.

### INCLUDED ACCESSORIES

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SolarCell Remote™ TM-2180E

### INDUSTRY CERTIFICATIONS

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#### NextGen TV

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.

#### CTA 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.

## MODELS

**MODEL:** QN85QN90A  
**ORDER CODE:** QN85QN90AAFXZA

**SCREEN SIZE CLASS:** 85"

**SCREEN DIAGONAL MEASUREMENT:** 84.5"

**UPC CODE:** 887276520889

**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 45.2 x 14.4
- **SHIPPING:** 82.2 x 49.9 x 8.8
- **STAND FOOTPRINT:** 16.9 x 10.6 x 14.4

**WEIGHT (LB):**

- **TV WITHOUT STAND:** 98.1
- **TV WITH STAND:** 123.9
- **SHIPPING:** 154.3

**VESA SUPPORT:** Yes (400 x 300)

**ACCESSORIES INCLUDED IN BOX:**

- **REMOTE MODEL:** TM-2180E

**MODEL:** QN75QN90A  
**ORDER CODE:** QN75QN90AAFXZA

**SCREEN SIZE CLASS:** 75"

**SCREEN DIAGONAL MEASUREMENT:** 74.5"

**UPC CODE:** 887276520841

**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 10.2 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-2180E

# QN90A TV

## MODEL

**MODEL:** QN65QN90A  
**ORDER CODE:** QN65QN90AAFXZA

**SCREEN SIZE CLASS:** 65"

**SCREEN DIAGONAL MEASUREMENT:** 64.5"

**UPC CODE:** 887276520803

**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 35.2 x 11.2
- **SHIPPING:** 63.8 x 37.3 x 7.3
- **STAND FOOTPRINT:** 13.4 x 9.4 x 11.2

**WEIGHT (LB):**

- **TV WITHOUT STAND:** 53.8
- **TV WITH STAND:** 69.2
- **SHIPPING:** 80

**VESA SUPPORT:** Yes (400 x 300)

**ACCESSORIES INCLUDED IN BOX:**

- **REMOTE MODEL:** TM-2180E

**MODEL:** QN55QN90A  
**ORDER CODE:** QN55QN90AAFXZA

**SCREEN SIZE CLASS:** 55"

**SCREEN DIAGONAL MEASUREMENT:** 54.6"

**UPC CODE:** 887276520780

**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 30.3 x 9.3
- **SHIPPING:** 55.5 x 33.2 x 7
- **STAND FOOTPRINT:** 11.8 x 8.6 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-2180E

# QN90A TV

## MODEL

**MODEL:** QN50QN90A  
**ORDER CODE:** QN50QN90AAFZXA

**SCREEN SIZE CLASS:** 50"

**SCREEN DIAGONAL MEASUREMENT:** 49.5"

**UPC CODE:** 887276520704

**COUNTRY OF ORIGIN:** Mexico

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

- **TV WITHOUT STAND:** 43.9 x 25.4 x 1.1
- **TV WITH STAND:** 43.9 x 27.8 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-2180E

**MODEL:** QN43QN90A  
**ORDER CODE:** QN43QN90AAFZXA

**SCREEN SIZE CLASS:** 43"

**SCREEN DIAGONAL MEASUREMENT:** 42.5"

**UPC CODE:** 887276574875

**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-2180E