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
- Quantum HDR 32X
- Quantum HDR 24X (50")
- Neo Quantum Processor 4K
- 100% Color Volume with Quantum Dot
- Ultimate UHD Dimming
- Motion Xcelerator Turbo+
- Expert Calibration
- UltraViewing Angle

**Smart Features**
- Smart TV Powered by Tizen
- Universal Guide
- Ambient Mode+
- Multiple Voice Assistants
- TV Plus
- Multi View
- SolarCell Remote
- SmartThings Compatible
- Samsung Health
- PC on TV

**Audio**
- Object Tracking Sound+™
- Q-Symphony
- SpaceFit Sound
- Active Voice Amplifier
- Dolby Digital Plus
- 60 Watt 4.2.2 Channel

**Design**
- NeoSlim Design
- Sand Black Bending Plate Stand

**Smart TV Powered by Tizen**

**Connections**
- 4 HDMI Connections
- eARC
- 2 USB Connections
- LAN Port
- B02.11AC built-in Wi-Fi
- Bluetooth
- RS232 Control (Ex-Link)
- IP Control Support
- Optical Audio Output Port

**Included Accessories**
- SolarCell Remote

**Industry Certifications**
- NextGen TV
- CTA 4K UHD Connected
- Filmmaker Mode

---

1Quantum HDR 24X on 50" model. Not available on 65" model. Applicable to 65" QN90A. Baseline JPEG may vary based on source content. Utilizes AI-based formulas. 
2QLED TVs produce 100% color volume in the DCI-P3 color space. The format for many cinema screens and HDR movies because of 50% model has wide viewing angle. Best experience with games supporting UltraWide GameView.
3Super Ultrawide GameView & Game Bar
4Auto Game Mode (ALLM)
5Adaptive Picture™
6Smart TV Powered by Tizen

---

*Quantum TV supports AirPlay 2 and requires iOS 12.3 or later or macOS 10.14.5 or later. Feature availability will vary by mobile device. *SmartThings app on a mobile device requires Android OS 6.0 or higher, Apple iOS 12.0 or later, or a Samsung Galaxy device with Wi-Fi 802.11ac. *Applicable only to connected devices. Some services may require a Samsung account. *Support for some services may require an additional subscription. *For more information, visit www.samsung.com/global/notice/app-download. *Pre-agreed use of certain features. *Auto Game Mode (ALLM) available on certain 2020 and 2021 Samsung QLED TV models. *For more information, visit www.samsung.com/global/notice/app-download. *SmartThings app on a mobile device requires Android OS 6.0 or higher, Apple iOS 12.3 or later, or a Samsung Galaxy device with Wi-Fi 802.11ac. *Support for some features may require an additional subscription. *For more information, visit www.samsung.com/global/notice/app-download. *Available on selected 2020 and 2021 Samsung QLED TV models. *For more information, visit www.samsung.com/global/notice/app-download. *Applicable only to connected devices.
QN90A TV

KEY FEATURES (page 1 of 2)

PICTURE

Quantum Matrix Technology
Enjoy a brilliantly intense, hyper-focused picture powered by tiny light cells using exclusive Mini LED designed technology.

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.

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

100% Color Volume with Quantum Dot
Get a billion brilliant colors that stay true even in bright scenes.

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

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

SMART FEATURES

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.

SAMSUNG

Samsung TV • Tracy Locke
017183 Studio# 017104
TV Spec Sheets

Sell Sheet • QN90A
TS017183_mch_sls_SpecSheets_QN90A.indd
Print Code: • Contact: Denise Thomas • Studio Artist: JRS
Build At: 100% • Print Scale: None
4-Color Process: Cyan, Magenta, Black
Placed Images: None
Document Fonts: SamsungOne (800, 400)
QN90A TV

KEY FEATURES (page 2 of 2)

CONNECTIONS

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

Object Tracking Sound+™
Experience vividly realistic 3D sound that puts you in the middle of 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

SolarCell Remote™ TM-2180E

INDUSTRY CERTIFICATIONS

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 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.
## QN90A TV

### MODELS

<table>
<thead>
<tr>
<th>MODEL: QN85QN90A</th>
<th>ORDER CODE: QN85QN90AAFXZA</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCREEN SIZE CLASS: 85&quot;</td>
<td></td>
</tr>
<tr>
<td>SCREEN DIAGONAL MEASUREMENT: 84.5&quot;</td>
<td></td>
</tr>
<tr>
<td>UPC CODE: 887276520889</td>
<td></td>
</tr>
<tr>
<td>COUNTRY OF ORIGIN: Mexico</td>
<td></td>
</tr>
<tr>
<td>DIMENSIONS (INCHES W x H x D):</td>
<td></td>
</tr>
<tr>
<td>• TV WITHOUT STAND: 74.5 x 42.6 x 1.1</td>
<td></td>
</tr>
<tr>
<td>• TV WITH STAND: 74.5 x 45.2 x 14.4</td>
<td></td>
</tr>
<tr>
<td>• SHIPPING: 82.2 x 49.9 x 8.8</td>
<td></td>
</tr>
<tr>
<td>• STAND FOOTPRINT: 16.9 x 10.6 x 14.4</td>
<td></td>
</tr>
<tr>
<td>WEIGHT (LB):</td>
<td></td>
</tr>
<tr>
<td>• TV WITHOUT STAND: 98.1</td>
<td></td>
</tr>
<tr>
<td>• TV WITH STAND: 123.9</td>
<td></td>
</tr>
<tr>
<td>• SHIPPING: 154.3</td>
<td></td>
</tr>
<tr>
<td>VESA SUPPORT: Yes (400 x 300)</td>
<td></td>
</tr>
<tr>
<td>ACCESSORIES INCLUDED IN BOX:</td>
<td></td>
</tr>
<tr>
<td>• REMOTE MODEL: TM-2180E</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL: QN75QN90A</th>
<th>ORDER CODE: QN75QN90AAFXZA</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCREEN SIZE CLASS: 75&quot;</td>
<td></td>
</tr>
<tr>
<td>SCREEN DIAGONAL MEASUREMENT: 74.5&quot;</td>
<td></td>
</tr>
<tr>
<td>UPC CODE: 887276520841</td>
<td></td>
</tr>
<tr>
<td>COUNTRY OF ORIGIN: Mexico</td>
<td></td>
</tr>
<tr>
<td>DIMENSIONS (INCHES W x H x D):</td>
<td></td>
</tr>
<tr>
<td>• TV WITHOUT STAND: 65.7 x 37.7 x 1.1</td>
<td></td>
</tr>
<tr>
<td>• TV WITH STAND: 65.7 x 40.2 x 12.5</td>
<td></td>
</tr>
<tr>
<td>• SHIPPING: 72.5 x 44.4 x 7.8</td>
<td></td>
</tr>
<tr>
<td>• STAND FOOTPRINT: 15.4 x 10.2 x 12.5</td>
<td></td>
</tr>
<tr>
<td>WEIGHT (LB):</td>
<td></td>
</tr>
<tr>
<td>• TV WITHOUT STAND: 77.2</td>
<td></td>
</tr>
<tr>
<td>• TV WITH STAND: 98.8</td>
<td></td>
</tr>
<tr>
<td>• SHIPPING: 121.3</td>
<td></td>
</tr>
<tr>
<td>VESA SUPPORT: Yes (400 x 400)</td>
<td></td>
</tr>
<tr>
<td>ACCESSORIES INCLUDED IN BOX:</td>
<td></td>
</tr>
<tr>
<td>• REMOTE MODEL: TM-2180E</td>
<td></td>
</tr>
</tbody>
</table>
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: 15.4 x 9.4 x 11.2
WEIGHT (LB):
  - TV WITHOUT STAND: 53.8
  - TV WITH STAND: 69.2
  - SHIPPING: 80
VESLA 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 30.3 x 9.3
  - 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
VESLA SUPPORT: Yes (200 x 200)
ACCESSORIES INCLUDED IN BOX:
  - REMOTE MODEL: TM-2180E
QN90A TV

MODEL

MODEL: QN50QN90A
ORDER CODE: QN50QN90AAFXZA

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: 45.9 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

VESAL SUPPORT: Yes (200 x 200)

ACCESSORIES INCLUDED IN BOX:
- REMOTE MODEL: TM-2180E