Samsung Neo QLED QN90C TV

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PRODUCT HIGHLIGHTS

- Quantum Matrix with Mini LEDs
- Neo Quantum HDR+[14]
- Neural Quantum Processor with 4K Upscaling
- Anti-glare with Ultra Viewing Angle[17]
- Dolby Atmos and Object Tracking Sound+[16]

SIZE CLASS

85"	75"	65"	55"	50"	43"
85QN90C	75QN90C	65QN90C	55QN90C	50QN90C	43QN90C

Graduate to a more brilliant 4K experience—powered by Quantum Matrix Technology and presented with NeoSlim refinement. Precise contrast, pristine color and premium design reward every glance, whether the TV is on or off. While you're watching, each scene is optimized to bring you stellar brightness and incredible details. And with AI-processing, it's all upscaled to 4K while your Smart Hub and sound are fine-tuned.

KEY FEATURES

Picture

- Quantum Matrix with Mini LEDs
- 4K Resolution
- 4K AI Upscaling
- Neo Quantum HDR+[14]
- Neural Quantum Processor 4K
- 100% Color Volume with Quantum Dot[1]
- Ultimate UHD Dimming
- Motion Xcelerator Turbo+ (85", 75", 65", 55")
- Motion Xcelerator Turbo Pro (50", 43")
- Ultra Viewing Angle[15]
- Real Depth Enhancer
- Anti-glare
- Eye Comfort Mode
- Expert Calibration
- FreeSync Premium Pro
- Auto Game Mode (ALLM)
- Super Ultrawide GameView & Game Bar[2]

Design

- Neo Slim
- Titan Black, Sharp Neck Hexagon Stand

Smart Features

- Smart TV Powered by Tizen
- Universal Guide
- Ambient Mode+[3]
- Multiple Voice Assistants[4]
- Samsung Gaming Hub[18]
- Samsung TV Plus
- Multi View[5]
- SolarCell Remote™[6]
- SmartThings Compatible[7]
- Samsung Health[8]
- Google Meet
- Music Wall

Connections

- 4 HDMI Ports[10]
- HDMI 2.1 Features Supported:
  - Auto Low Latency Mode (ALLM), supported on all ports
  - Fixed Rate Link (FRL) 4K@120Hz[17] 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®5.2
- RS232 Control (Ex-Link)
- IP Control Support[11]
- Optical Audio Output Port

Audio

- Dolby Atmos and Object Tracking Sound+[16]
- Q-Symphony 3.0[12]
- Active Voice Amplifier
- 60 Watt 4.2.2 Channel[9]

Included Accessories

- SolarCell Remote™ (TM-2280E)

Industry Certifications

- NextGen TV[13]
- Filmmaker Mode
- 4K UHD Connected

[1]QLED televisions can produce 100% Color Volume in the DCI-P3 color space, the format for most cinema screens and HDR movies for television.
[2]Best experience with PC games supporting UltraWide GameView.
[3]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.
[4]Amazon, Alexa, and all related logos are trademarks of Amazon.com, Inc. or its affiliates. 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.
[5]Feature availability will vary by mobile device.
[6]Remote color and design may vary by model.
[7]SmartThings compatible devices only. SmartThings app download may be required. Compatible with Zigbee Dongle's SKU is VG-STDB10A/ZA.
[8]Subscriptions may be required for some services.
[9]50" has 40W 2CH, 43" has 20W 2.0CH
[10]HDMI—CEC (Consumer Electronics Control) facilitates convenient control functions with compatible devices.
[11]Requires third-party control system installation. See www.samsung.com/us/business/custominstall.
[12]Samsung Q-Symphony 3.0 is compatible with Q-series and S-series soundbars, please refer to samsung.com for more information.
[13]The NextGen TV logo is an unregistered trademark of the Consumer Technology Association and is used by permission.
[14]50", 43" has Neo Quantum HDR
[15]50" has Wide Viewing Angle
[16]50", 43" has OTS Lite
[17]50" and 43" supports up to 4K@144hz
[18]High speed internet connection, additional gaming service subscriptions, and compatible controller required.

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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.

Neo Quantum HDR+
Every detail bursts to life with the realistic contrast and brilliance the director intended.

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

100% Color Volume with Quantum Dot[1]
Take in a billion shades of unwavering color and enjoy vivid, life-life color at any brightness level as Mini LEDs and Quantum Dot technology work together to create every shade you see on screen.

Anti-glare
Virtually reflection-free to enjoy shows without distractions.

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

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

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

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

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

Samsung Gaming Hub
Stream your favorite games, no console required.

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

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

SolarCell Remote™
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
Take control of your connected devices with SmartThings on your screen.

Samsung Health
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.

Telemed
Meet primary care physicians from the comfort of your own home using your Samsung TV.[18]

ConnecTime
Make video calls to and from your screens, no matter where you are, and spend time with your loved ones on a bigger screen. [19]

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Email: rzohn@valueelectronics.com

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[18]
[19]

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 (Wi-Fi 5).

AUDIO

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

Q-Symphony 3.0
Surround yourself with the sound of your TV and soundbar working in harmony.

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

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.

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.

INCLUDED ACCESSORIES

SolarCell Remote™ TM2360E

Power Cable

User Manual / E-Manual

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MODELS

MODEL: QN85QN90C
ORDER CODE: QN85QN90CAFXZA

SCREEN SIZE CLASS: 85"

SCREEN DIAGONAL MEASUREMENT: 84.5"

UPC CODE: 887276740898

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 45x 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 / E MANUAL**

MODEL: QN75QN90C
ORDER CODE: QN75QN90CAFXZA

SCREEN SIZE CLASS: 75"

SCREEN DIAGONAL MEASUREMENT: 74.5"

UPC CODE: 887276740867

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):
- **TV WITHOUT STAND:** 65.7 x 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 / E MANUAL**

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MODEL

MODEL: QN65QN90C
ORDER CODE: QN65QN90CAFXZA

SCREEN SIZE CLASS: 65"

SCREEN DIAGONAL MEASUREMENT: 64.5"

UPC CODE: 887276740836

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 11.2
- **SHIPPING:** 63.8 x 37.3 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: QN55QN90C
ORDER CODE: QN55QN90CAFXZA

SCREEN SIZE CLASS: 55"

SCREEN DIAGONAL MEASUREMENT: 54.6"

UPC CODE: 887276740805

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):
- **TV WITHOUT STAND:** 48.3 x x 27.8 x 1
- **TV WITH STAND:** 48.3 x 30.2 x 9.3
- **SHIPPING:** 57 x 32.5 x 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 (200 x 200)

ACCESSORIES INCLUDED IN BOX:
- **REMOTE MODEL:** TM2360E
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MODEL

MODEL: QN50QN90C
ORDER CODE: QN50QN90CAFXZA

SCREEN SIZE CLASS: 50"

SCREEN DIAGONAL MEASUREMENT: 49.5"

UPC CODE: 887276740799

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):
- **TV WITHOUT STAND:**43.8 x 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: QN43QN90C
ORDER CODE: QN43QN90CAFXZA

SCREEN SIZE CLASS: 43"

SCREEN DIAGONAL MEASUREMENT: 42.5"

UPC CODE: 887276740782

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):
- **TV WITHOUT STAND:**37.8 x 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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