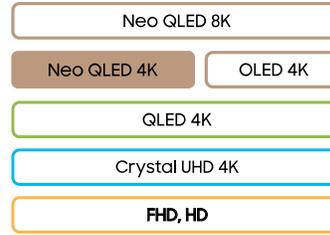




CLASS HIERARCHY



SIZE CLASS

85"	QN85QN90F
75"	QN75QN90F
65"	QN65QN90F
55"	QN55QN90F
50"	QN50QN90F
43"	QN43QN90F



Our best 4K AI processor powers Samsung Vision AI¹ for enhanced picture, sound, and breakthrough TV experiences. Quantum Matrix Mini LEDs unlock bright detail on a glare-free screen, for distraction-free viewing in the bright rooms. Top speakers² provide multi-dimensional AI-enhanced³ sound that tracks to on-screen motion.

TOP 10 KEY FEATURES

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. NQ4 AI Gen3 Processor⁴ 2. 4K AI Upscaling Pro⁴ 3. Glare Free 4. Neo Quantum HDR+⁵ 5. Motion Xcelerator 165Hz⁶ | <ol style="list-style-type: none"> 6. AI Motion Enhancer Pro³ 7. Auto HDR Remastering Pro 8. Dolby Atmos 9. Endless Free Content⁷ 10. Object Tracking Sound+ |
|--|---|

PICTURE (PANEL)

- Display Type: Neo QLED 4K
- Refresh Rate: 120Hz (Up to 165Hz)
- Lighting Technology: Quantum Matrix Technology Plus
- Display Resolution: 4K (3,840 x 2,160)
- Anti Reflection: Glare Free
- Viewing Angle: Wide Viewing Angle
- Dimming Technology: Ultimate UHD Dimming

PICTURE (PROCESSING)

- Processor: NQ4 AI Gen3 Processor⁴
- Upscaling: 4K AI Upscaling Pro⁴
- Variable Refresh Rate (VRR): Yes
- Motion Handling: Motion Xcelerator 165Hz⁶
- Contrast Enhancer: Real Depth Enhancer Pro
- Object Motion Enhancing: AI Motion Enhancer Pro
- Color: Color Booster Pro
- EyeComfort Pro: Yes
- HDR (High Dynamic Range):
 - 85"-55": Neo Quantum HDR+⁵
 - 50"-43": Neo Quantum HDR
- HDR10+: Yes (Adaptive/Gaming)
- Auto HDR Remastering: Pro
- Adaptive Picture: AI Optimized/AI Customization
- Supersize Picture Enhancer: 85"

AUDIO

- Speaker Type:

85"-55": 4.2.2CH	50": 2.2CH	43": 2CH
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- Output Power:

85"-55": 60W	50": 40W	43": 20W
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- Dolby Atmos: Yes
- Object Tracking Sound (OTS):

85"-55": OTS+	50"-43": OTS Lite
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- Q-Symphony: Yes
- Active Voice Amplifier (AVA): AVA Pro
- Adaptive Sound: Pro
- Bluetooth Audio: Yes
- 360 Audio: Yes

DESIGN

- TV Design: NeoSlim
- Bezel Type:

85"-55": 4 Bezel-less
50"-43": 3 Bezel-less
- Front Color: Titan Black
- Stand Type: Sharp Neck Hexagon
- Stand Color: Titan Black
- Adjustable Stand: N/A

CONNECTIVITY

- Wi-Fi: Yes (Wi-Fi 5)
- Bluetooth: Yes (BT5.3)
- One Connect Box: N/A
- HDMI Input: 4 Ports
- HDMI Maximum Input Rate: 4K 165Hz (for HDMI 1/2/3/4)
- HDMI Audio Return Channel: eARC
- HDMI-CEC: Yes
- USB Ports: 2 x USB-A
- Ethernet (LAN): 1
- Digital Audio Out (Optical): 1
- RF Connection: 1
- RS-232C Input: 1

SAMSUNG VISION AI¹

- Live Translate: Yes⁸
- Click to Search: Yes⁹
- Generative Wallpaper: Yes
- Pet & Family Care: Yes
- Home Insight: Yes
- Universal Gesture/Quick Control: Yes

TV ART FEATURES

- Art Mode: N/A
- Art Store: Yes¹⁰

SMART TV FEATURES⁶

- Operating System: One UI Tizen¹¹
- AI TV: Samsung Vision AI¹
- Free Ad Supported TV: Samsung TV Plus
- Smart Home Connectivity: SmartThings, Matter, IoT-Sensor Functionality¹²
- Smart Assistants (Built-In): Bixby, Alexa
- Smart Assistants (Works with): Google Assistant
- Far-Field Voice Interactions: Yes
- Web Browser: Yes
- SmartThings Hub/Quick Remote/Matter Hub/ IoT-Sensor Functionality: Yes
- Samsung Health: Yes¹³
- Multi Device Experience: TV to Mobile, Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On, Tap View
- Multi-View: Up to 2 Videos
- Ambient Mode: N/A
- Buds Auto Switch: Yes
- Works with Apple Airplay: Yes
- Works with Google Cast: Yes
- Daily+: Yes
- Daily Board: Voice/User Detection
- Workout Tracker: Yes
- Karaoke Mic: Yes
- Multi-Control: Yes
- ConneCTime: Yes
- Screen Vitals: Yes
- Storage Share: Yes

GAMING

- Gaming Hub: Yes¹⁴
- Cloud Gaming: Yes - Xbox, NVIDIA GeForce Now, Luna, Blacknut, Antstream, Boosteroid, Utomik
- Auto Game Mode: AI Auto Game Mode
- ALLM (Auto Low Latency Mode): Yes
- Game Motion Plus: Yes
- Super Ultra Wide Game View: Yes¹⁵
- Game Bar: Yes
- Mini Map Zoom: Yes
- VRR Standard: FreeSync Premium™ Pro
- HGiG: Yes
- Hue Sync: Yes

SECURITY

- Knox Vault: N/A
- Knox Security: Yes

POWER

- Power Supply (V): AC110-120V~ 50/60Hz
- Standby Power Consumption (W): 0.5W
- Typical Power Consumption (W):

85": 207W	55": 116W
75": 163W	50": 85W
65": 140W	43": 72W
- Max Power Consumption (W):

85": 385W	55": 215W
75": 295W	50": 145W
65": 250W	43": 125W

INCLUDED ACCESSORIES

- Remote Control: SolarCell™ Remote TM2560E
- Power Cable: Yes
- Slim Fit Wall-mount Support: N/A

MODELS

MODEL: QN85QN90F
ORDER CODE: QN85QN90FAFXZA

SCREEN SIZE CLASS: 85"

SCREEN DIAGONAL MEASUREMENT: 84.5"

UPC CODE: 887276934563

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 (LOWEST): 74.5 X 45 X 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
- STAND WEIGHT: 14.1

VESA SUPPORT: YES (600 X 400)

ACCESSORIES INCLUDED IN BOX:

- REMOTE MODEL: SOLARCELL™ REMOTE TM2560E
- POWER CABLE
- USER MANUAL

WARRANTY: [CLICK HERE](#)

MODEL: QN65QN90F
ORDER CODE: QN65QN90FAFXZA

SCREEN SIZE CLASS: 65"

SCREEN DIAGONAL MEASUREMENT: 64.5

UPC CODE: 887276934556

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 (LOWEST): 56.9 X 35.1 X 10.7
- SHIPPING: 63.9 X 36.8 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: 76.3
- STAND WEIGHT: 7.3

VESA SUPPORT: YES (400 x 300)

ACCESSORIES INCLUDED IN BOX:

- REMOTE MODEL: SOLARCELL™ REMOTE TM2560E
- POWER CABLE
- USER MANUAL

WARRANTY: [CLICK HERE](#)

MODEL: QN75QN90F
ORDER CODE: QN75QN90FAFXZA

SCREEN SIZE CLASS: 75"

SCREEN DIAGONAL MEASUREMENT: 74.5"

UPC CODE: 887276934525

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 (LOWEST): 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
- STAND WEIGHT: 12.3

VESA SUPPORT: Yes (400 x 400)

ACCESSORIES INCLUDED IN BOX:

- REMOTE MODEL: SOLARCELL™ REMOTE TM2560E
- POWER CABLE
- USER MANUAL

WARRANTY: [CLICK HERE](#)

MODEL: QN55QN90F
ORDER CODE: QN55QN90FAFXZA

SCREEN SIZE CLASS: 55"

SCREEN DIAGONAL MEASUREMENT: 54.6"

UPC CODE: 887276934549

COUNTRY OF ORIGIN: MEXICO

DIMENSIONS (INCHES W X H X D):

- TV WITHOUT STAND: 48.3 X 27.8 X 1.1
- TV WITH STAND (LOWEST): 48.3 X 30.2 X 9.3
- SHIPPING: 57 X 32.5 X 6.7
- STAND FOOTPRINT: 15.3 X 8.5 X 9.3

WEIGHT (LB):

- TV WITHOUT STAND: 39
- TV WITH STAND: 45.4
- SHIPPING: 57.8
- STAND WEIGHT: 6.4

VESA SUPPORT: YES (200 X 200)

ACCESSORIES INCLUDED IN BOX:

- REMOTE MODEL: SOLARCELL™ REMOTE TM2560E
- POWER CABLE
- USER MANUAL

WARRANTY: [CLICK HERE](#)

*Samsung Vision AI features vary by model; see individual model for more info.

¹QN90F 50" and 43" have 2.2 and 2 channel speakers respectively.

²Utilizes AI-Based formulas.

³Utilizes AI-Based formulas to upscale to 4K resolution. Resulting picture may vary based on source content.

⁴QN90F 50" and 43" have Neo Quantum HDR.

⁵4K 165Hz is only available with PC connected games that support such specifications (PC graphic card required). Performance may vary.

⁶Samsung Account required for network-based smart services, including streaming apps and other smart features. Computer, mobile or other device may be necessary to create/log in to Samsung Account (free to download and create). Without Account log in, only external device connections (e.g., via HDMI) and terrestrial/over-the-air TV (only for TVs with tuners) is available. Channels may vary by location and are subject to change. UI is subject to change without prior notice.

⁷Works with antenna broadcast only. Available languages vary and may require download. Translation accuracy not guaranteed.

⁸Click to Search Who's On feature only works with terrestrial, cable TV and Samsung TV Plus. Click to Search Watch Next feature utilizes AI based algorithms.

⁹Fees apply to subscription service. Art pieces in the Art Store are subject to change without prior notice.

¹⁰One UI Tizen OS updates are available for up to 7 years from the product release year starting in 2025. Availability, features, contents, apps and services are subject to change without notice and may vary by product and model. OS updates does not cover hardware-related performance, features or durability.

¹¹SmartThings require compatible devices only. SmartThings app download may be required.

¹²Subscriptions may be required for some services. Smart Trainer support devices may vary by country.

¹³High speed internet connection, additional gaming service subscriptions and compatible controller required.

¹⁴Super Ultrawide Game View is supported for PC games only. This is feature is only available for ultra wide supported games. Some game titles may not support this function or may be limited to use this feature. Screen resolution change from external device may be required.

MODELS

MODEL: QN50QN90F
ORDER CODE: QN50QN90FAFXZA

SCREEN SIZE CLASS: 50"

SCREEN DIAGONAL MEASUREMENT: 49.5"

UPC CODE: 887276934532

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 (LOWEST): 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
- STAND WEIGHT: 9

VESA SUPPORT: YES (200 X 200)

ACCESSORIES INCLUDED IN BOX:

- REMOTE MODEL: SOLARCELL™ REMOTE TM2560E
- POWER CABLE
- USER MANUAL

WARRANTY: [CLICK HERE](#)

MODEL: QN43QN90F
ORDER CODE: QN43QN90FAFXZA

SCREEN SIZE CLASS: 43"

SCREEN DIAGONAL MEASUREMENT: 42.5"

UPC CODE: 887276934501

COUNTRY OF ORIGIN: Mexico

DIMENSIONS (INCHES W x H x D):

- TV WITHOUT STAND: 37.8 X 22 X 1.1
- TV WITH STAND (LOWEST): 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: 37.3
- STAND WEIGHT: 8.8

VESA SUPPORT: Yes (200 x 200)

ACCESSORIES INCLUDED IN BOX:

- REMOTE MODEL: SOLARCELL™ REMOTE TM2560E
- POWER CABLE
- USER MANUAL

WARRANTY: [CLICK HERE](#)

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