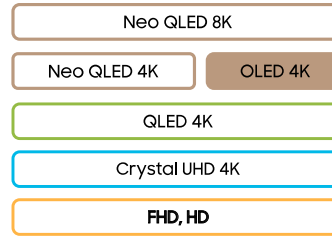




CLASS HIERARCHY



SIZE CLASS

83"	QN83S90FD
77"	QN77S90FD
65"	QN65S90FD
55"	QN55S90FD
48"	QN48S90FD
42"	QN42S90FD



Our fastest 4K processor powers Samsung Vision AI^{1,2} to upscale your content³, while powerful brightness and deep contrast deliver a phenomenal Pantone® Validated picture. Whether you're streaming or gaming, motion enhancement delivers ultra-smooth action with virtually no lagging or blur.

TOP 10 KEY FEATURES

1. NQ4 AI Gen3 Processor³
2. 4K AI Upscaling Pro³
3. OLED HDR+⁴
4. Motion Xcelerator 144Hz⁵
5. Auto HDR Remastering Pro
6. AI Motion Enhancer Pro⁶
7. Dolby Atmos and Object Tracking Sound Lite
8. Active Voice Amplifier Pro and Adaptive Sound Pro
9. Endless Free Content / One UI Tizen⁷
10. AI Customization Mode⁶

PICTURE (PANEL)

- Display Type: OLED
- Refresh Rate: 120Hz (Up to 4K 144Hz)
- Lighting Technology: Self-illuminating pixels
- Display Resolution: 4K (3,840 x 2,160)
- Anti Reflection: Yes
- Viewing Angle: Ultra Viewing Angle
- Dimming Technology: N/A

PICTURE (PROCESSING)

- Processor: NQ4 AI Gen3 Processor³
- Upscaling: 4K AI Upscaling Pro³
- Variable Refresh Rate (VRR): Yes
- Motion Handling: Motion Xcelerator 144Hz⁵
- Contrast Enhancer: Real Depth Enhancer
- Object Motion Enhancing: AI Motion Enhancer Pro
- Color: Color Booster Pro
- EyeComfort: Yes
- HDR (High Dynamic Range):
 - 83"-55": OLED HDR+⁴
 - 48"-42": OLED HDR⁴
- HDR10+: Yes (Adaptive/Gaming)
- Auto HDR Remastering: Pro
- Adaptive Picture: Optimized / AI Customization
- Supersize Picture Enhancer: N/A

AUDIO

- Speaker Type: 83"-48": 2.1CH
42": 2CH
- Output Power: 83"-48": 40W
42": 20W
- Dolby Atmos: Yes
- Object Tracking Sound (OTS): OTS Lite
- Q-Symphony: Yes
- Active Voice Amplifier (AVA): AVA Pro
- Adaptive Sound: Pro
- Bluetooth Audio: Yes
- 360 Audio: Yes

DESIGN

- TV Design: LaserSlim
- Bezel Type: 4 Bezel-less
- Front Color: Graphite Black
- Stand Type: 83"-48": Simple Plus Blade
42": Simple Blade
- Stand Color: 83"-48": Space Titan
42": Black
- Adjustable Stand: N/A

CONNECTIVITY

- Wi-Fi: Yes (Wi-Fi 6E)
- Bluetooth: Yes (BT5.3)
- One Connect Box: N/A
- HDMI Input: 4 Ports
- HDMI Maximum Input Rate: 4K 144Hz (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 AI^{1,2}

- Live Translate: Yes
- Generative Wallpaper: N/A
- Pet & Family Care: Yes
- Home Insight: Yes
- Universal Gestures/Quick Control: Yes

TV ART FEATURES

- Art Mode: N/A
- Art Store: N/A

SMART TV FEATURES⁷

- Operating System: One UI Tizen⁷
- AI TV: Samsung Vision AI^{1,2}
- Free Ad Supported TV: Samsung TV Plus
- Smart Home Connectivity: SmartThings, Matter, IoT- Sensor Functionality⁸
- 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: Yes⁹
- 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: Yes
- 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: Yes¹⁰
- Cloud Gaming: Yes - Xbox, NVIDIA GeForce Now, Luna, Blacknut, Antstream, Boosteroid, Utomik
- AI Auto Game Mode: Yes
- ALLM (Auto Low Latency Mode): Yes
- Game Motion Plus: Yes
- Super Ultra Wide Game View: Yes¹¹
- Game Bar: Yes
- Mini Map Zoom: Yes
- VRR Standard:
 - 83"-55": Freesync Premium™ Pro
 - 48"-42": Freesync Premium™
- 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):

83": 237W	55": 110W
77": 182W	48": 95W
65": 149W	42": 80W
- Max Power Consumption (W):

83": 770W	55": 290W
77": 540W	48": 205W
65": 405W	42": 175W

INCLUDED ACCESSORIES

- Remote Control: SolarCell™ Remote TM2560E
- Power Cable: Yes

MODELS

MODEL: QN83S90FD
ORDER CODE: QN83S90FDEXZA

SCREEN SIZE CLASS: 83"

SCREEN DIAGONAL MEASUREMENT: 82.5"

UPC CODE: 887276947235

COUNTRY OF ORIGIN: MEXICO

DIMENSIONS (INCHES W X H X D):

- TV WITHOUT STAND: 72.9 X 41.8 X 1.8
- TV WITH STAND (LOWEST): 72.9 X 44.6 X 14.1
- SHIPPING: 79.7 X 48.6 X 7.4
- STAND FOOTPRINT: 14.4 X 12.8 X 14.1
- DISTANCE BETWEEN STANDS (STANDARD): 14.4"

WEIGHT (LB):

- TV WITHOUT STAND: 82.9
- TV WITH STAND: 86.9
- SHIPPING: 114.9

VESA SUPPORT: YES (400 X 300)

ACCESSORIES INCLUDED IN BOX:

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

WARRANTY: [CLICK HERE](#)

MODEL: QN65S90FD
ORDER CODE: QN65S90FDFXZA

SCREEN SIZE CLASS: 65"

SCREEN DIAGONAL MEASUREMENT: 64.5"

UPC CODE: 887276947211

COUNTRY OF ORIGIN: MEXICO

DIMENSIONS (INCHES W X H X D):

- TV WITHOUT STAND: 56.9 X 32.7 X 1.6
- TV WITH STAND (LOWEST): 56.9 X 35.3 X 10.4
- SHIPPING: 63.7 X 37.4 X 6.3
- STAND FOOTPRINT: 14.4 X 11.8 X 10.4
- DISTANCE BETWEEN STANDS (STANDARD): 14.4"

WEIGHT (LB):

- TV WITHOUT STAND: 46.7
- TV WITH STAND: 49.6
- SHIPPING: 65.9

VESA SUPPORT: YES (300 X 200)

ACCESSORIES INCLUDED IN BOX:

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

WARRANTY: [CLICK HERE](#)

MODEL: QN77S90FD
ORDER CODE: QN77S90FDFXZA

SCREEN SIZE CLASS: 77"

SCREEN DIAGONAL MEASUREMENT: 76.8"

UPC CODE: 887276947228

COUNTRY OF ORIGIN: MEXICO

DIMENSIONS (INCHES W X H X D):

- TV WITHOUT STAND: 67.7 X 38.9 X 1.8
- TV WITH STAND (LOWEST): 67.7 X 41.7 X 14.1
- SHIPPING: 74.2 X 45.4 X 7.1
- STAND FOOTPRINT: 14.4 X 12.8 X 14.1
- DISTANCE BETWEEN STANDS (STANDARD): 14.4"

WEIGHT (LB):

- TV WITHOUT STAND: 76.7
- TV WITH STAND: 80.7
- SHIPPING: 103.2

VESA SUPPORT: YES (400 X 300)

ACCESSORIES INCLUDED IN BOX:

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

WARRANTY: [CLICK HERE](#)

MODEL: QN55S90FD
ORDER CODE: QN55S90FDFXZA

SCREEN SIZE CLASS: 55"

SCREEN DIAGONAL MEASUREMENT: 54.6"

UPC CODE: 887276947204

COUNTRY OF ORIGIN: MEXICO

DIMENSIONS (INCHES W X H X D):

- TV WITHOUT STAND: 48.2 X 27.9 X 1.6
- TV WITH STAND (LOWEST): 48.2 X 30.5 X 10.4
- SHIPPING: 54.5 X 32.8 X 6
- STAND FOOTPRINT: 14.4 X 11.8 X 10.4
- DISTANCE BETWEEN STANDS (STANDARD): 14.4"

WEIGHT (LB):

- TV WITHOUT STAND: 35.3
- TV WITH STAND: 38.1
- SHIPPING: 50.5

VESA SUPPORT: YES (300 X 200)

ACCESSORIES INCLUDED IN BOX:

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

WARRANTY: [CLICK HERE](#)

¹Samsung Vision AI features vary by model; see product specifications on Samsung.com for more info.

²Samsung Vision AI is only available on 2025 Neo QLED 8K, Neo QLED, QLED, and QLED TV models. Excludes Crystal UHD, FHD, and HD TV models. Samsung Vision AI features may also vary by model. Utilizes AI-Based formulas.

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

⁴48" and 42" S90FD has OLED HDR.

⁵4K 144Hz is only available with PC connected games that support such specifications (PC graphic card required). Performance may vary.

⁶Utilizes AI-Based formulas.

⁷Samsung 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) available. Channels may vary by location and are subject to change. UI is subject to change without prior notice.

⁸SmartThings require compatible devices only. SmartThings app download may be required.

⁹Subscriptions may be required for some services. Smart Trainer support devices may vary by country.

¹⁰High speed internet connection, additional gaming service subscriptions and compatible controller required.

¹¹Super Ultra-wide 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: QN48S90FD
ORDER CODE: QN48S90FDEXZA

SCREEN SIZE CLASS: 48"

SCREEN DIAGONAL MEASUREMENT: 47.5"

UPC CODE: 887276947198

COUNTRY OF ORIGIN: MEXICO

DIMENSIONS (INCHES W X H X D):

- TV WITHOUT STAND: 42.1 X 24.4 X 1.6
- TV WITH STAND (LOWEST): 42.1 X 27 X 10.4
- SHIPPING: 47.3 X 29.4 X 5.6
- STAND FOOTPRINT: 14.4 X 11.8 X 10.4
- DISTANCE BETWEEN STANDS (STANDARD): 14.4"

WEIGHT (LB):

- TV WITHOUT STAND: 23.4
- TV WITH STAND: 26.2
- SHIPPING: 36.4

VESA SUPPORT: YES (300 X 200)

ACCESSORIES INCLUDED IN BOX:

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

WARRANTY: [CLICK HERE](#)

MODEL: QN42S90FD
ORDER CODE: QN42S90FDEXZA

SCREEN SIZE CLASS: 42"

SCREEN DIAGONAL MEASUREMENT: 41.5"

UPC CODE: 887276954639

COUNTRY OF ORIGIN: MEXICO

DIMENSIONS (INCHES W X H X D):

- TV WITHOUT STAND: 36.8 X 21.4 X 1.6
- TV WITH STAND (LOWEST): 36.8 X 23.9 X 8.1
- SHIPPING: 41.4 X 25.9 X 5.2
- STAND FOOTPRINT: 1.3 X 7.7 X 8.1
- DISTANCE BETWEEN STANDS (STANDARD): 24.4"

WEIGHT (LB):

- TV WITHOUT STAND: 18.3
- TV WITH STAND: 19.2
- SHIPPING: 26.7

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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