



CLASS HIERARCHY

Neo QLED 8K	
Neo QLED 4K	OLED 4K
QLED 4K	
Crystal UHD 4K	
FHD, HD	

SIZE CLASS

83"	QN83S90F
77"	QN77S90F
65"	QN65S90F
55"	QN55S90F
48"	QN48S90F
42"	QN42S90F



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 Processor ³	6. Auto HDR Remastering
2. 4K AI Upscaling Pro ³	7. Dolby Atmos and Object Tracking Sound Lite
3. OLED HDR ⁴	8. Active Voice Amplifier Pro and Adaptive Sound Pro
4. Motion Xcelerator 144Hz ⁵	9. Endless Free Content / One UI Tizen ⁷
5. AI Motion Enhancer Pro ⁶	10. AI Customization Mode ⁶

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 Processor ³
Upscaling: 4K AI Upscaling Pro ³
Variable Refresh Rate (VRR): Yes
Motion Handling: Motion Xcelerator 144Hz ⁵
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 HDR ⁴
HDR10+: Yes (Adaptive/Gaming)
Auto HDR Remastering: Yes
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 5)
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 Tizen ⁷
AI TV: Samsung Vision AI ^{1,2}
Free Ad Supported TV: Samsung TV Plus
Smart Home Connectivity: SmartThings, Matter, IoT- Sensor Functionality ⁸
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: Yes ⁹
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: Yes ¹⁰
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: Yes ¹¹
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 77": 182W 65": 149W 55": 110W 48": 95W 42": 80W
Max Power Consumption (W): 83": 770W 77": 540W 65": 405W 55": 290W 48": 205W 42": 175W

INCLUDED ACCESSORIES

Remote Control: SolarCell™ Remote TM2560E
Power Cable: Yes

MODELS

MODEL: QN83S90F ORDER CODE: QN83S90FAEXZA
SCREEN SIZE CLASS: 83"
SCREEN DIAGONAL MEASUREMENT: 82.5"
UPC CODE: 887276946092
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: QN65S90F ORDER CODE: QN65S90FAFXZA
SCREEN SIZE CLASS: 65"
SCREEN DIAGONAL MEASUREMENT: 64.5"
UPC CODE: 887276946085
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: QN77S90F ORDER CODE: QN77S90FAFXZA
SCREEN SIZE CLASS: 77"
SCREEN DIAGONAL MEASUREMENT: 76.8"
UPC CODE: 887276946054
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: QN55S90F ORDER CODE: QN55S90FAFXZA
SCREEN SIZE CLASS: 55"
SCREEN DIAGONAL MEASUREMENT: 54.6"
UPC CODE: 887276945255
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" S90F has QLED 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 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: QN48S90F ORDER CODE: QN48S90FAEXZA
SCREEN SIZE CLASS: 48"
SCREEN DIAGONAL MEASUREMENT: 47.5"
UPC CODE: 887276946078
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: QN42S90F ORDER CODE: QN42S90FAEXZA
SCREEN SIZE CLASS: 42"
SCREEN DIAGONAL MEASUREMENT: 41.5"
UPC CODE: 887276946061
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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