



CLASS HIERARCHY

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

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 Processor ³	6. AI Motion Enhancer Pro ⁶
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 Xcelerator144Hz ⁵	9. Endless Free Content / One UI Tizen ⁷
5. Auto HDR Remastering Pro	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: 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 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	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: 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: 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: 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 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: 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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