



CLASS HIERARCHY

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

SIZE CLASS

115"	QN115QN90F
98"	QN98QN90F
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

1. NQ4 AI Gen3 Processor ⁴	6. AI Motion Enhancer Pro ³
2. 4K AI Upscaling Pro ⁴	7. Auto HDR Remastering Pro
3. Glare Free	8. Dolby Atmos
4. Neo Quantum HDR+	9. Endless Free Content / One UI Tizen ⁶
5. Motion Xcelerator 165Hz ⁵	10. Object Tracking Sound+

PICTURE (PANEL)

Display Type: Neo QLED 4K	
Refresh Rate:	115": 120Hz (Up to 144Hz) 98"-43": 120Hz (Up to 165Hz)
Lighting Technology: Quantum Matrix Technology Plus	
Display Resolution: 4K (3,840 x 2,160)	
Anti Reflection:	115": Yes 98"-43": Glare Free
Viewing Angle: Wide Viewing Angle	
Dimming Technology: Ultimate UHD Dimming	

PICTURE (PROCESSING)

Processor ⁴ : NQ4 AI Gen3 Processor	
Upscaling ⁴ : 4K AI Upscaling Pro	
Variable Refresh Rate (VRR): Yes	
Motion Handling ⁵ :	
	115": Motion Xcelerator 144Hz 98"-43": Motion Xcelerator 165Hz
Contrast Enhancer: Real Depth Enhancer Pro	
Object Motion Enhancing: AI Motion Enhancer Pro	
Color: Color Booster Pro	
EyeComfort Pro: Yes	
HDR (High Dynamic Range):	
	115"-55": Neo Quantum HDR+ 50"-43": Neo Quantum HDR
HDR10+: Yes (Adaptive/Gaming)	
Auto HDR Remastering: Pro	
Adaptive Picture: AI Optimized/AI Customization	
Supersize Picture Enhancer: 115", 98", 85" only	

AUDIO

Speaker Type:		
115"-55": 4.2.2CH	50": 2.2CH	43": 2CH
Output Power:		
115"-55": 60W	50": 40W	43": 20W
Dolby Atmos: Yes		
Object Tracking Sound (OTS):		
	115"-55": OTS+	50"-43": OTS Lite

Q-Symphony ⁷ : Yes	
Active Voice Amplifier (AVA): AVA Pro	
Adaptive Sound: Pro	
Bluetooth Audio: Yes	
360 Audio: Yes	

DESIGN

TV Design: NeoSlim	
Bezel Type:	115"-98": 3 Bezel-less 85": 4 Bezel-less 50": 3 Bezel-less
Front Color: Titan Black	
Stand Type:	
	115": Metal Linear 98"-43": 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:	
	115": 4K 144Hz (for HDMI 1/2/3/4) 98": 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: Yes	
Generative Wallpaper: Yes	
Pet & Family Care: Yes	

Home Insight: Yes	
Universal Gesture/Quick Control: Yes	

TV ART FEATURES

Art Mode: N/A	
Art Store ⁸ : Yes	

SMART TV FEATURES⁹

Operating System ⁶ : One UI Tizen	
AI TV: Samsung Vision AI ¹	
Free Ad Supported TV: Samsung TV Plus	
Smart Home Connectivity ¹⁰ : SmartThings, Matter, IoT-Sensor Functionality	
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 ¹¹ : Yes	
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:	115": Ambient Mode+ 98": 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 ¹² : Yes	
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 ¹³ : Yes	
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	115": TBD	
Supply (V):	98"-43": AC110-120V~ 50/60Hz	
Standby Power	115": TBD	
Consumption (W):	98"-43": 0.5W	
Typical Power Consumption (W):		
	115": TBD	65": 140W
	98": 227W	55": 116W
	85": 207W	50": 85W
	75": 163W	43": 72W
Max Power Consumption (W):		
	115": TBD	65": 250W
	98": 455W	55": 215W
	85": 385W	50": 145W
	75": 295W	43": 125W

INCLUDED ACCESSORIES

Remote Control: SolarCell™ Remote TM2560E	
Power Cable: Yes	
Slim Fit Wall-mount Support: 115": Included	

MODELS

MODEL: QN115QN90F ORDER CODE: QN115QN90FFXZA
SCREEN SIZE CLASS: 115"
SCREEN DIAGONAL MEASUREMENT: TBD
UPC CODE: 887276993065
COUNTRY OF ORIGIN: Vietnam
DIMENSIONS (INCHES W x H x D): - TV WITHOUT STAND: TBD - TV WITH STAND (LOWEST): TBD - SHIPPING: TBD - STAND FOOTPRINT: TBD
WEIGHT (LB): - TV WITHOUT STAND: TBD - TV WITH STAND: TBD - SHIPPING: TBD - STAND WEIGHT: TBD
VESA SUPPORT: TBD
ACCESSORIES INCLUDED IN BOX: - REMOTE MODEL: SOLARCELL™ REMOTE TM2560E - POWER CABLE - USER MANUAL
WARRANTY: CLICK HERE

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 8.9 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: QN98QN90F ORDER CODE: QN98QN90FAFXZA
SCREEN SIZE CLASS: 98"
SCREEN DIAGONAL MEASUREMENT: 97.5"
UPC CODE: 887276934518
COUNTRY OF ORIGIN: Mexico
DIMENSIONS (INCHES W x H x D): - TV WITHOUT STAND: 86 X 49.2 X 1.2 - TV WITH STAND (LOWEST): 86 X 51.4 X 14.4 - SHIPPING: 93.3 X 55.9 X 10.8 - STAND FOOTPRINT: 18.9 X 11.2 X 14.4
WEIGHT (LB): - TV WITHOUT STAND: 135.4 - TV WITH STAND: 155.6 - SHIPPING: 204.4 - STAND WEIGHT: 20.3
VESA SUPPORT: Yes (600 x 400)
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 25.9 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

¹Samsung Vision AI features vary by model, see individual model for more info.
²QN90F 50", 43" have 2.2 and 2 channel speakers respectively.
³Utilizes AI-Based formulas.
⁴Utilizes AI-Based formulas to upscale to 4K resolution. Resulting picture may vary based on source content.
⁵14K 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) available. Channels may vary by location and are subject to change. UI is subject to change without prior notice.
⁷Q-Symphony requires a compatible 2020-2025 Samsung TV. Please refer to samsung.com for more information.
⁸Fees apply to subscription service. Art pieces in the Art Store are subject to change without prior notice.
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¹⁰SmartThings require compatible devices only. SmartThings app download may be required.
¹¹Subscriptions may be required for some services. Smart Trainer support devices may vary by country.
¹²High speed internet connection, additional gaming service subscriptions and compatible controller required.
¹³Super 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: 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: 78 - 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: 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: 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

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: 38.6 - STAND WEIGHT: 8.8
VESA SUPPORT: Yes (200 x 200)
ACCESSORIES INCLUDED IN BOX: - REMOTE MODEL: SOLARCELL™ REMOTE TM2560E - POWER CABLE - USER MANUAL
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