



CLASS HIERARCHY

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

SIZE CLASS

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



Our best 4K AI processor powers Samsung Vision AI<sup>1</sup> 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 speakers<sup>2</sup> provide multi-dimensional AI-enhanced<sup>3</sup> sound that tracks to on-screen motion.

TOP 10 KEY FEATURES

1. NQ4 AI Gen3 Processor <sup>4</sup>	6. AI Motion Enhancer Pro <sup>3</sup>
2. 4K AI Upscaling Pro <sup>4</sup>	7. Auto HDR Remastering Pro
3. Glare Free	8. Dolby Atmos
4. Neo Quantum HDR+ <sup>5</sup>	9. Endless Free Content <sup>7</sup>
5. Motion Xcelerator 165Hz <sup>6</sup>	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 Processor <sup>4</sup>
Upscaling:	4K AI Upscaling Pro <sup>4</sup>
Variable Refresh Rate (VRR):	Yes
Motion Handling:	Motion Xcelerator 165Hz <sup>6</sup>
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+ <sup>5</sup> 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
Output Power:	85"-55": 60W	50": 40W	43": 20W
Dolby Atmos:	Yes		
Object Tracking Sound (OTS):	85"-55": OTS+	50"-43": OTS Lite	

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 AI<sup>1</sup>

Live Translate:	Yes <sup>8</sup>
Click to Search:	Yes <sup>9</sup>
Generative Wallpaper:	Yes
Pet & Family Care:	Yes
Home Insight:	Yes
Universal Gesture/Quick Control:	Yes

TV ART FEATURES

Art Mode:	N/A
Art Store:	Yes <sup>10</sup>

SMART TV FEATURES<sup>6</sup>

Operating System:	One UI Tizen <sup>11</sup>
AI TV:	Samsung Vision AI <sup>1</sup>
Free Ad Supported TV:	Samsung TV Plus
Smart Home Connectivity:	SmartThings, Matter, IoT-Sensor Functionality <sup>12</sup>
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 <sup>13</sup>
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:	Yes <sup>14</sup>
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:	Yes <sup>15</sup>
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): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 74.5 X 42.6 X 1.1</li><li>TV WITH STAND (LOWEST): 74.5 X 45 X 12.6</li><li>SHIPPING: 84.3 X 49 X 9.1</li><li>STAND FOOTPRINT: 16.4 X 10.5 X 12.6</li></ul>
WEIGHT (LB): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 95.9</li><li>TV WITH STAND: 110</li><li>SHIPPING: 139.6</li><li>STAND WEIGHT: 14.1</li></ul>
VESA SUPPORT: YES (600 X 400)
ACCESSORIES INCLUDED IN BOX: <ul style="list-style-type: none"><li>REMOTE MODEL: SOLARCELL™ REMOTE TM2560E</li><li>POWER CABLE</li><li>USER MANUAL</li></ul>
WARRANTY: <a href="#">CLICK HERE</a>

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): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 56.9 X 32.6 X 1.1</li><li>TV WITH STAND (LOWEST): 56.9 X 35.1 X 10.7</li><li>SHIPPING: 63.9 X 36.8 X 7.3</li><li>STAND FOOTPRINT: 15.4 X 9.3 X 10.7</li></ul>
WEIGHT (LB): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 53.4</li><li>TV WITH STAND: 60.6</li><li>SHIPPING: 76.3</li><li>STAND WEIGHT: 7.3</li></ul>
VESA SUPPORT: YES (400 x 300)
ACCESSORIES INCLUDED IN BOX: <ul style="list-style-type: none"><li>REMOTE MODEL: SOLARCELL™ REMOTE TM2560E</li><li>POWER CABLE</li><li>USER MANUAL</li></ul>
WARRANTY: <a href="#">CLICK HERE</a>

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): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 65.7 X 37.7 X 1.1</li><li>TV WITH STAND (LOWEST): 65.7 X 40 X 11.9</li><li>SHIPPING: 74.2 X 44 X 7.5</li><li>STAND FOOTPRINT: 16.4 X 10.4 X 11.9</li></ul>
WEIGHT (LB): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 75.2</li><li>TV WITH STAND: 87.5</li><li>SHIPPING: 110.7</li><li>STAND WEIGHT: 12.3</li></ul>
VESA SUPPORT: Yes (400 x 400)
ACCESSORIES INCLUDED IN BOX: <ul style="list-style-type: none"><li>REMOTE MODEL: SOLARCELL™ REMOTE TM2560E</li><li>POWER CABLE</li><li>USER MANUAL</li></ul>
WARRANTY: <a href="#">CLICK HERE</a>

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): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 48.3 X 27.8 X 1.1</li><li>TV WITH STAND (LOWEST): 48.3 X 30.2 X 9.3</li><li>SHIPPING: 57 X 32.5 X 6.7</li><li>STAND FOOTPRINT: 15.3 X 8.5 X 9.3</li></ul>
WEIGHT (LB): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 39</li><li>TV WITH STAND: 45.4</li><li>SHIPPING: 57.8</li><li>STAND WEIGHT: 6.4</li></ul>
VESA SUPPORT: YES (200 X 200)
ACCESSORIES INCLUDED IN BOX: <ul style="list-style-type: none"><li>REMOTE MODEL: SOLARCELL™ REMOTE TM2560E</li><li>POWER CABLE</li><li>USER MANUAL</li></ul>
WARRANTY: <a href="#">CLICK HERE</a>

<sup>1</sup>Samsung Vision AI features vary by model; see individual model for more info.  
<sup>2</sup>QN90F 50" and 43" have 2.2 and 2 channel speakers respectively.  
<sup>3</sup>Utilizes AI-Based formulas.  
<sup>4</sup>Utilizes AI-Based formulas to upscale to 4K resolution. Resulting picture may vary based on source content.  
<sup>5</sup>QN90F 50" and 43" have Neo Quantum HDR.  
<sup>6</sup>4K 165Hz is only available with PC connected games that support such specifications (PC graphic card required). Performance may vary.  
<sup>7</sup>Samsung 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.  
<sup>8</sup>Works with antenna broadcast only. Available languages vary and may require download. Translation accuracy not guaranteed.  
<sup>9</sup>Click 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.  
<sup>10</sup>Fees apply to subscription service. Art pieces in the Art Store are subject to change without prior notice.  
<sup>11</sup>One 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.  
<sup>12</sup>SmartThings require compatible devices only. SmartThings app download may be required.  
<sup>13</sup>Subscriptions may be required for some services. Smart Trainer support devices may vary by country.  
<sup>14</sup>High speed internet connection, additional gaming service subscriptions and compatible controller required.  
<sup>15</sup>Super 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): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 43.8 X 25.4 X 1.1</li><li>TV WITH STAND (LOWEST): 43.8 X 27.8 X 8.7</li><li>SHIPPING: 51.9 X 30.2 X 5.5</li><li>STAND FOOTPRINT: 20.4 X 8.6 X 8.7</li></ul>
WEIGHT (LB): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 29.8</li><li>TV WITH STAND: 38.8</li><li>SHIPPING: 49.6</li><li>STAND WEIGHT: 9</li></ul>
VESA SUPPORT: YES (200 X 200)
ACCESSORIES INCLUDED IN BOX: <ul style="list-style-type: none"><li>REMOTE MODEL: SOLARCELL™ REMOTE TM2560E</li><li>POWER CABLE</li><li>USER MANUAL</li></ul>
WARRANTY: <a href="#">CLICK HERE</a>

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): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 37.8 X 22 X 1.1</li><li>TV WITH STAND (LOWEST): 37.8 X 24.4 X 8.7</li><li>SHIPPING: 45.8 X 26.3 X 5.5</li><li>STAND FOOTPRINT: 20.4 X 8.6 X 8.7</li></ul>
WEIGHT (LB): <ul style="list-style-type: none"><li>TV WITHOUT STAND: 20.7</li><li>TV WITH STAND: 29.5</li><li>SHIPPING: 37.3</li><li>STAND WEIGHT: 8.8</li></ul>
VESA SUPPORT: Yes (200 x 200)
ACCESSORIES INCLUDED IN BOX: <ul style="list-style-type: none"><li>REMOTE MODEL: SOLARCELL™ REMOTE TM2560E</li><li>POWER CABLE</li><li>USER MANUAL</li></ul>
WARRANTY: <a href="#">CLICK HERE</a>

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<sup>2</sup>QN90F 50" and 43" have 2.2 and 2 channel speakers respectively.  
<sup>3</sup>Utilizes AI-Based formulas.  
<sup>4</sup>Utilizes AI-Based formulas to upscale to 4K resolution. Resulting picture may vary based on source content.  
<sup>5</sup>QN90F 50" and 43" have Neo Quantum HDR.  
<sup>6</sup>4K 165Hz is only available with PC connected games that support such specifications (PC graphic card required). Performance may vary.  
<sup>7</sup>Samsung 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.  
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