CLASS HIERARCHY

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

SIZE CLASS

85"	QN85QN90FD
75"	QN75QN90FD
65"	QN65QN90FD
55"	QN55QN90FD
50"	QN50QN90FD
43"	QN43QN90FD

Samsung Vision AI · Dolby Atmos · HDR10+ ADAPTIVE / GAMING · alexa built-in · SmartThings · PANTONE Validated

Our best 4K AI processor powers Samsung Vision AI[1] for enahnced 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[2] provide multi-dimensional AI-enhanced[3] sound that tracks to on-screen motion.

TOP 10 KEY FEATURES

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

PICTURE (PANEL)

Display Type: Neo QLED 4K
Refresh Rate: 85"-43": 120Hz (Up to 165Hz)
Lighting Technology: Quantum Matrix Technology Plus
Display Resolution: 4K (3,840 x 2,160)
Anti Reflection: 85"-43": Glare Free
Viewing Angle: Wide Viewing Angle
Dimming Technology: Ultimate UHD Dimming Pro

PICTURE (PROCESSING)

Processor[4]: NQ4 AI Gen3 Processor
Upscaling[4]: 4K AI Upscaling Pro
Variable Refresh Rate (VRR): Yes
Motion Handling[5]: 85"-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):
85"-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: 85" only

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[7]: 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: TBD

CONNECTIVITY

Wi-Fi: Yes (Wi-Fi 6E)
Bluetooth: Yes (BT5.3)
One Connect Box: N/A
HDMI Input: 4 Ports
HDMI Maximum Input Rate:
85"-43": 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[1]

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 FEATURES[9]

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: 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 Supply (V):
85"-43": AC110-120V~ 50/60Hz
Standby Power Consumption (W):
85"-43": 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: Supported

MODELS

MODEL: QN85QN90FD
ORDER CODE: QN85QN90FDFXZA

SCREEN SIZE CLASS: 85"

SCREEN DIAGONAL MEASUREMENT: 84.5"

UPC CODE: 887276934723

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: QN75QN90FD
ORDER CODE: QN75QN90FDFXZA

SCREEN SIZE CLASS: 75"

SCREEN DIAGONAL MEASUREMENT: 74.5"

UPC CODE: 887276934716

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

MODEL: QN65QN90FD
ORDER CODE: QN65QN90FDFXZA

SCREEN SIZE CLASS: 65"

SCREEN DIAGONAL MEASUREMENT: 64.5

UPC CODE: 887276934709

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: QN55QN90FD
ORDER CODE: QN55QN90FDFXZA

SCREEN SIZE CLASS: 55"

SCREEN DIAGONAL MEASUREMENT: 54.6"

UPC CODE: 887276934693

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

[1]Samsung Vision AI features vary by model; see individual model for more info.
[2]QN90F 50", 43" have 2.2 and 2 channel speakers respectively.
[3]Utilizes AI-Based formulas.
[4]Utilizes AI-Based formulas to upscale to 4K resolution. Resulting picture may vary based on source content.
[5]4K 165Hz is only available with PC connected games that support such specifications (PC graphic card required). Performance may vary.
[6]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.
[7]Q-Symphony requires a compatible 2020-2025 Samsung TV. Please refer to samsung.com for more information.
[8]Fees apply to subscription service. Art pieces in the Art Store are subject to change without prior notice.
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[10]SmartThings require compatible devices only. SmartThings app download may be required.
[11]Subscriptions may be required for some services. Smart Trainer support devices may vary by country.
[12]High speed internet connection, additional gaming service subscriptions and compatible controller required.
[13]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: QN50QN90FD ORDER CODE: QN50QN90FDFXZA
SCREEN SIZE CLASS: 50"
SCREEN DIAGONAL MEASUREMENT: 49.5"
UPC CODE: 887276934686
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: QN43QN90FD ORDER CODE: QN43QN90FDFXZA
SCREEN SIZE CLASS: 43"
SCREEN DIAGONAL MEASUREMENT: 42.5"
UPC CODE: 887276934679
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
WARRANTY: CLICK HERE

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