



CLASS HIERARCHY

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

SIZE CLASS

115"	QN115QN90F



Advanced 4K AI processing powers Samsung Vision AI¹ for enhanced picture, sound and breakthrough TV experiences. Mini LEDs unlock bright detail on our largest glare-free screen, specifically engineered to stay sharp and clear². Top-firing speakers deliver multidimensional AI-enhanced sound that tracks to on-screen motion.³

TOP 10 KEY FEATURES

1. NQ8 AI Gen3 Processor ⁴	6. Neo Quantum HDR Pro
2. Supersize Picture Enhancer	7. Motion Xcelerator 144Hz
3. Quantum Mini LED Pro	8. AI Motion Enhancer Pro ⁵
4. Glare Free	9. Auto HDR Remastering Pro
5. 4K AI Upscaling Pro ⁴	10. Dolby Atmos

PICTURE (PANEL)

Display Type: Neo QLED 4K
Refresh Rate: 120Hz (Up to 144Hz)
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: NQ8 AI Gen3 Processor ⁴
Upscaling: 4K AI Upscaling Pro ⁴
Variable Refresh Rate (VRR): Yes
Motion Handling: Motion Xcelerator 144Hz ¹⁵
Contrast Enhancer: Real Depth Enhancer Pro
Object Motion Enhancing: AI Motion Enhancer Pro
Color: Color Booster Pro
EyeComfort Pro: Yes
HDR (High Dynamic Range): Neo Quantum HDR Pro
HDR10+: Yes (Adaptive/Gaming)
Auto HDR Remastering: Pro
Adaptive Picture: AI Optimized/AI Customization
Supersize Picture Enhancer: Yes

AUDIO

Speaker Type: 4.2.2CH
Output Power: 60W
Dolby Atmos: Yes
Object Tracking Sound (OTS): OTS+
Q-Symphony: Yes
Active Voice Amplifier (AVA): AVA Pro
Adaptive Sound: Pro
Bluetooth Audio: Yes
360 Audio: Yes

DESIGN

TV Design: SuperSlim Design
Bezel Type: 3 Bezel-less
Front Color: Titan Black
Stand Type: Metal Linear
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 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 AI¹

Live Translate: Yes ⁷
Click to Search: Yes ⁸
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 ⁹

SMART TV FEATURES⁶

Operating System: One UI Tizen ¹⁰
AI TV: Samsung Vision AI ¹
Free Ad Supported TV: Samsung TV Plus
Smart Home Connectivity: SmartThings, Matter, IoT-Sensor Functionality ¹¹
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/loT-Sensor Functionality: Yes
Samsung Health: Yes ¹²
Multi Device Experience: TV to Mobile, Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On, Tap View
Multi-View: Up to 4 Videos
Ambient Mode: N/A
Buds Auto Switch: Yes
Works with Apple Airplay: Yes
Works with Google Cast: N/A
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 ¹³
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 ¹⁴
Game Bar: Yes
Mini Map Zoom: Yes
VRR Standard: FreeSync Premium™ Pro
HGiG: N/A
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): 404W
Max Power Consumption (W): 760W

INCLUDED ACCESSORIES

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

MODELS

MODEL: QN115QN90F ORDER CODE: QN115QN90FFXZA
SCREEN SIZE CLASS: 115"
SCREEN DIAGONAL MEASUREMENT: 114.4"
UPC CODE: 887276993065
COUNTRY OF ORIGIN: Vietnam
DIMENSIONS (INCHES W x H x D): <ul style="list-style-type: none">TV WITHOUT STAND: 101 X 57.8 X 1.3TV WITH STAND (LOWEST): 101 X 60 X 18.4SHIPPING: 105.3 X 65 X 9.8STAND FOOTPRINT: 2.5 X 16.4 X 18.4
WEIGHT (LB): <ul style="list-style-type: none">TV WITHOUT STAND: 184.5TV WITH STAND: 189.6SHIPPING: 294.5STAND WEIGHT: 5.1
VESA SUPPORT: YES (1000 X 600)
ACCESSORIES INCLUDED IN BOX: <ul style="list-style-type: none">REMOTE MODEL: SOLARCELL™ REMOTE TM2560EPOWER CABLEUSER MANUAL
WARRANTY: CLICK HERE

¹Samsung Vision AI and associated features vary by 2025 TV model (not available on Q6F, Crystal and select special models). AI Upscaling utilizes AI-based formulas. See individual TV model product page on Samsung.com for details.

²Available on 2024 & 2025 models 85" and larger.

³QN90F 50", 43" have 2.0 and 2 channel speakers respectively.

⁴Utilizes AI-Based formulas to upscale to 4K resolution. Resulting picture may vary based on source content.

⁵Utilizes AI-Based formulas.

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/login to Samsung Account (free to download and create). Without Account login 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.

⁷Works with antenna broadcast only. Available languages vary and may require download. Translation accuracy not guaranteed.

⁸Click 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.

⁹Fees apply to subscription services. Art pieces in the Art Store are subject to change without prior notice.

¹⁰One UI Tizen OS updates are available for up to 7 years from the product release year starting in 2023. 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.

¹¹SmartThings require compatible devices only. SmartThings app download may be required.

¹²Subscriptions may be required for some services. Smart Trainer support devices may vary by country.

¹³High speed internet connection, additional gaming service subscriptions and compatible controller required.

¹⁴Super 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.

¹⁵4K 165Hz is only available with PC connected games that support such specifications (PC graphic card required). Performance may vary.