



CLASS HIERARCHY

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

SIZE CLASS

98"	QN98QN990F



Our best 8K TV features phenomenally sharp picture with immersive sound and breakthrough experiences powered by our most advanced processor and Samsung Vision AI¹. Nearly edgeless design and a glare-free screen are complemented by a wireless connection hub² for a clutter-free, modern design.

TOP 10 KEY FEATURES

1. NQ8 AI Gen3 Processor ³	6. Motion Xcelerator 120Hz ⁵
2. Supersize Picture Enhancer	7. AI Motion Enhancer Pro ⁶
3. Wireless One Connect ⁴	8. Auto HDR Remastering Pro
4. Glare Free	9. Dolby Atmos and Object Tracking Sound Pro
5. 8K AI Upscaling Pro ³	10. Endless Free Content ⁷

PICTURE (PANEL)

Display Type: Neo QLED 8K
Refresh Rate: 120Hz
Lighting Technology: Quantum Matrix Technology Pro
Display Resolution: 8K (7,680 x 4,320)
Anti Reflection: Glare Free
Viewing Angle: Ultra Viewing Angle
Dimming Technology: Ultimate 8K Dimming Pro

PICTURE (PROCESSING)

Processor: NQ8 AI Gen3 Processor ³
Upscaling: 8K AI Upscaling Pro ³
Variable Refresh Rate (VRR): Yes
Motion Handling: Motion Xcelerator 120Hz ⁵
Contrast Enhancer: Real Depth Enhancer Pro
Object Motion Enhancing: AI Motion Enhancer Pro ⁶
Color: Color Booster Pro
EyeComfort Mode: Yes
HDR (High Dynamic Range): Neo Quantum HDR 8K Pro
HDR10+: Yes (Adaptive/Gaming)
Auto HDR Remastering: Pro
Adaptive Picture: AI Optimized/AI Customization ⁶
Supersize Picture Enhancer: Yes

AUDIO

Speaker Type: 6.4.4CH
Output Power: 120W
Dolby Atmos: Yes
Object Tracing Sound (OTS): OTS Pro
Q-Symphony: Yes
Active Voice Amplifier (AVA): AVA Pro
Adaptive Sound: Pro
Bluetooth Audio: Yes
360 Audio: Yes

DESIGN

TV Design: Infinity One
Bezel Type: 4 Bezel-less
Front Color: Graphite Black
Stand Type: Slim OC Stand
Stand Color: Titan Black
Adjustable Stand: N/A

CONNECTIVITY

Wi-Fi: Yes (Wi-Fi 6E)
Bluetooth: BT5.3
One Connect Box: Wireless One Connect ⁴
One Connect Box Holder: Yes
HDMI Input: 5 Ports
HDMI Maximum Input Rate: 8K 120Hz, 4K 120Hz (For HDMI 1/2/3/4/5)
HDMI Audio Return Channel: eARC
HDMI-CEC: Yes
USB Ports: 3 x USB-A, 1 x USB-C
Ethernet (LAN): 1
Digital Audio Out (Optical): 1
RF Connection: 1
RS-232C Input: 1

SAMSUNG VISION AI¹

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

TV ART FEATURES

Art Mode: N/A
Art Store: Yes ¹⁰

SMART TV FEATURES⁷

Operating System: One UI Tizen ¹¹
AI TV: Samsung Vision AI ¹
Free Ad Supported TV: Samsung TV Plus
Smart Home Connectivity: SmartThings, Matter, IoT-Sensor Functionality ¹²
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 ¹³
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: 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 ¹⁴
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 ¹⁵
Game Bar: Yes
Mini Map Zoom: Yes
VRR Standard: FreeSync Premium™ Pro
HGiG: Yes
Hue Sync: Yes

SECURITY

Knox Vault: Yes
Knox Security: Yes

POWER

Power Supply (V): AC110-120V~ 50/60Hz
Standby Power Consumption (W): 0.5W
Typical Power Consumption (W): 410W
Max Power Consumption (W): 610W

INCLUDED ACCESSORIES

Remote Control: SolarCell Remote TM2560E
Wireless One Connect Box: Yes ⁴
Power Cable: Yes

MODELS

MODEL: QN98QN990F ORDER CODE: QN98QN990FFXZA
SCREEN SIZE CLASS: 98"
SCREEN DIAGONAL MEASUREMENT: 97.5"
UPC CODE: 887276944692
COUNTRY OF ORIGIN: VIETNAM
DIMENSIONS (INCHES W X H X D): <ul style="list-style-type: none">· TV WITHOUT STAND: 85.8 X 48.8 X 0.8· TV WITH STAND (LOWEST): 85.8 X 51.8 X 14.6· SHIPPING: 93.3 X 55.9 X 9.1· STAND FOOTPRINT: 16.5 X 14.6 X 11.5
WEIGHT (LB): <ul style="list-style-type: none">· TV WITHOUT STAND: 149.9· TV WITH STAND: 190.7· SHIPPING: 247.8· STAND WEIGHT: 40.8
VESA SUPPORT: YES (600 X 400)
ACCESSORIES INCLUDED IN BOX: <ul style="list-style-type: none">· REMOTE MODEL: SOLARCELL™ REMOTE· WIRELESS ONE CONNECT BOX⁴· POWER CABLE· USER MANUAL
WARRANTY: CLICK HERE

¹Samsung Vision AI features vary by model; see individual model for more info.
²TV and Wireless One Connect require separate power cord connections. Wireless One Connect [only] connects to TV via [Included] peer-to-peer WiFi and is omni-directional up to 30 feet; connection may be affected by surrounding environment, may not connect when enclosed or when blocked by metal (e.g., from inside a metal cabinet) or by other physical objects such as walls.
³Utilizes AI-Based formulas to upscale to 8K resolution. Resulting picture may vary based on source content.
⁴Wireless One Connect must be connected to the TV wirelessly for full TV functionality. Wireless connection may be affected by surrounding environment, may not connect when enclosed or blocked by metal (e.g., from inside a metal cabinet) or by other physical objects such as walls. TV and Wireless One Connect require separate power cord connections.
⁵4K 120Hz 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.
⁸Works with antenna broadcast only. Available languages vary and may require download. Translation accuracy not guaranteed.
⁹Click 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.
¹⁰Fees apply to subscription service. Art pieces in the Art Store are subject to change without prior notice.
¹¹One 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.
¹²SmartThings require compatible devices only. SmartThings app download may be required.
¹³Subscriptions may be required for some services. Smart Trainer support devices may vary by country.
¹⁴High speed internet connection, additional gaming service subscriptions and compatible controller required.
¹⁵Super 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.