SAMSUNG

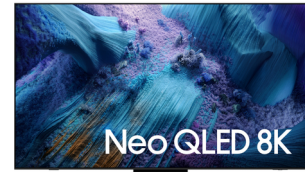# Samsung 98" Neo QLED QN990F 8K Vision AI Smart TV (2025)

Brand : Samsung

Product name : 98" Neo QLED QN990F 8K Vision AI Smart TV (2025)

Product code: QE98QN990FTXXU

- 8K AI Upscaling Pro & NQ8 AI Gen3 Processor: Our most powerful AI processor upscales any content to 8K[1]
- Neo Quantum HDR 8K Pro with Mini LEDs, now Glare Free: See every detail with our brightest whites, deep blacks and cutting contrast - glare free[6]
- Dolby Atmos® with Object Tracking Sound Pro: Get wrapped up in 12-speaker sound that precisely moves with the action
- Infinity One Design with a Wireless One Connect: No messy cables for fully immersive viewing[9]
- AI Motion Enhancer Pro and Motion Xcelerator 120Hz: AI delivers ultra-smooth motion and virtually no lag or blur for sports and gaming[12]
98" Neo QLED QN990F 8K Vision AI Smart TV (2025)

Display

Display diagonal *	2.49 m (98")
HD type *	8K Ultra HD
Display technology *	Neo QLED
LED backlight *	✔
LED backlighting type	Mini LED
Screen shape *	Flat
Native aspect ratio *	16:9
Motion interpolation technology *	Motion Xcelerator
Native refresh rate	100 Hz
Dynamic contrast ratio marketing name	Quantum Matrix Technology Pro
Display resolution *	7680 x 4320 pixels
Display diagonal (metric)	247 cm
Anti-glare screen	✔

TV tuner

Tuner type *	Analog & digital
Digital signal format system *	DVB-C, DVB-S2, DVB-T2
Number of tuners	2 tuner(s)
Auto channel search	✔

Smart TV

Smart TV *	✔
Internet TV *	✔
Operating system installed *	Tizen
Apple AirPlay 2 support	✔
Sound mirroring	✔
Hybrid Broadcast Broadband TV (HbbTV)	✔
Hybrid Broadcast Broadband TV (HbbTV) version	2.0.4
Far-field voice interaction	✔
TV initiate mirroring	✔
Universal guide	✔
Video apps	Samsung TV Plus

Performance

Multi View	✔
TV sound to mobile device	✔
Smartphone/tablet remote support	✔
USB recording	✔
ConnectShare (HDD)	✔
ConnectShare (USB)	✔

Ports & interfaces

Audio Return Channel (ARC)	✔
PC in (D-Sub) *	✘
Ethernet LAN (RJ-45) ports	1
USB connectivity	✔
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity	1
Digital audio optical out	1
RF ports quantity	2
Common interface (CI) *	✔
Common interface Plus (CI+) *	✔
Common interface Plus (CI+) version	1.4
HDMI ports quantity *	5
Consumer Electronics Control (CEC)	Anynet+
USB connector type	USB Type-A, USB Type-C

Management features

Voice guide	✔
Electronic Programme Guide (EPG)	✔
On Screen Display (OSD)	✔
Number of OSD languages	28
ECO mode	✔
Auto power off	✔
Works with Amazon Alexa	✔
Works with the Google Assistant	✔

Audio

RMS rated power *	120 W
Audio output channels	6.2.4 channels
Audio decoders	Dolby Atmos
Sound modes	Adaptive Sound Pro
Audio pre-selection descriptor	✔
Adaptive sound	✔
Active voice amplifier (AVA)	✔
Enhanced Audio Return Channel (eARC)	✔

Network

Wi-Fi *	✔
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Bluetooth *	✔
Bluetooth version	5.3
Ethernet LAN *	✔
Web browser	✔

Design

Product colour *	Black
VESA mounting *	✔
Panel mounting interface	600 x 400 mm
Frameless design	✔
Introduction year	2025
Bezel type	4 Bezel-less
Stand type	Center stand
Stand colour	Titanium

Performance

High Dynamic Range (HDR) technology	Filmmaker Mode, High Dynamic Range 10+ Adaptive (HDR10 Plus Adaptive), High Dynamic Range 10+ Gaming (HDR10 Plus Gaming), Hybrid Log-Gamma (HLG), Neo Quantum HDR 8K Pro
Game mode	✔
Eco sensor	✔
AI Upscale	✔
TV key support	✔
Backlight dimming technology	Ultimate 8K Dimming Pro
Picture processing technology	Samsung Real Depth Enhancer Pro
Picture processor	NQ8 AI Gen3
High Dynamic Range (HDR) supported *	✔
AMD FreeSync	✔
AMD FreeSync type	FreeSync Premium Pro
Game features	Auto Low Latency Mode (ALLM), Dynamic Black EQ, Game Motion Plus, Gaming Hub, HGiG, Mini Map Zoom, Super Ultra Wide Game View, Surround Sound, Variable Refresh Rate (VRR)
SmartThings app support	✔
Tap view	✔
Video upscaling	✔

Management features

Works with Samsung Bixby	✔
Universal Browse & Play	✔

Power

Power consumption (typical) *	198 W
Power consumption (standby) *	0.5 W
Power consumption (max)	610 W
Energy efficiency class (SDR) *	G
Energy efficiency class (HDR) *	G
Energy consumption (SDR) per 1000 hours *	198 kWh
Energy consumption (HDR) per 1000 hours *	499 kWh
AC input voltage	220-240 V
AC input frequency	50/60 Hz
Energy saving mode	✔
Energy efficiency scale	A to G

Brand-specific features

Samsung technologies (AV/TV)	8K AI Upscaling, AI Auto Game Mode, AI Energy Mode, AI Motion Enhancer Pro, Active Voice Amplifier Pro, Adaptive Sound Pro, Art Store, Auto HDR Remastering, Built-in SmartThings Hub, EyeComfort Mode, Generative Wallpaper, Infinity One Design, Karaoke Mode, Knox Vault, Neo Quantum HDR 8K+, Object Tracking Sound Pro, One Connect Box, Q-Symphony, Quantum Matrix Technology Pro, Samsung Health, Samsung TV Plus, Slim Fit Wall-Mount Compatible, Smart Calibration, Ultra Viewing Angle

Weight & dimensions

Width (with stand)	2179 mm
Depth (with stand)	369.6 mm
Height (with stand)	1316.4 mm
Weight (with stand)	86.5 kg
Width (without stand)	2179 mm
Depth (without stand)	19.9 mm
Height (without stand)	1240.3 mm
Weight (without stand)	68 kg
Stand width	42 cm
Stand depth	37 cm

Packaging data

Package width	2370 mm
Package depth	230 mm
Package height	1420 mm
Package weight	112.4 kg
Package type	Box

Packaging content

Desktop stand	✔
Cables included	AC
Remote control included	✔
Remote control type	TM2360E (UK,Italy Add TM1240A)

Other features

One Connect box	✔

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