

SAMSUNG

Neo QLED QN990F 8K Vision AI Smart TV (2025)

It's your show with Samsung Vision AI



85"

Top Features

NQ8 AI Gen3 Processor

Samsung's most advanced AI-powered 8K processor creates our best overall 8K experience. Our NQ8 AI Gen3 Processor leverages 768 AI neural networks to optimise both picture and sound to deliver an 8K experience whether you are watching streaming services, playing your favourite video games or watching live sports.¹

8K AI Upscaling Pro

Our 8K AI Upscaling Pro technology powered by 768 AI neural networks transforms content up to an 8K resolution. Our most advanced NQ8 AI Gen3 Processor enables the sharpest and smoothest picture quality of any Samsung TV.²

Wireless One Connect

Plug in all your HDMI sources into your Wireless One Connect box, which can be placed in any direction within a distance of 10 meters from the TV, wirelessly transmitting up to an 8K 120Hz signal to keep your TV clutter free.³

Glare Free

Our anti-glare technology reduces glare from external light sources, such as indoor lighting. Now you can enjoy your favourite entertainment without closing the blinds.⁴

¹ Compared to NQ8 AI Gen 2 Processor. Native 8K content availability is very limited. Picture quality of upscaled content will vary depending on the quality and resolution of source content and may not apply to PC connection and Game Mode.

² Native 8K content availability is very limited. Picture quality of upscaled content will vary depending on the quality and resolution of source content and may not apply to PC connection and Game Mode.

³ TV requires a separate power cable connection. Operating distance can vary depending on the surrounding environment. Wireless One Connect may not function if there is an obstruction, such as a wall, hindering its connection to the TV within your home. Wireless One Connect box may not function if placed inside a closed metal cabinet.

⁴ The QN990F has been independently verified as Glare Free: Reflection Glare UGR <10, Discomfort Glare UGR <22, Disability Glare UGR <34 by UL LLC. (UL Solutions), Certificate Number: V166045 - Exp. 31/12/2025.

Product	Product Category	85" NeoQLED
	Model Number	QA85QN990FWXXY
Display	Screen Size	85"
	Resolution	8K (7,680 x 4,320)
	Native Refresh Rate	100Hz
	Anti Reflection	Glare Free
Video	Picture Engine	NQ8 AI Gen3 Processor
	HDR (High Dynamic Range)	Neo Quantum HDR 8K Pro
	HDR 10+	Yes (ADAPTIVE/ GAMING)
	Auto HDR Remastering	Auto HDR Remastering Pro
	Viewing Angle	Ultra Viewing Angle
	Micro Dimming	Ultimate 8K Dimming Pro
	Contrast Enhancer	Real Depth Enhancer Pro
	Smart Calibration	Basic/Professional
	Picture Upscale	8K AI Upscaling Pro
	AI Motion Enhancer	AI Motion Enhancer Pro
	Supersize Picture Enhancer	Yes
	HDR Brightness Optimiser	Yes
	Colour Booster	Colour Booster Pro
	Filmmaker Mode	Yes
Audio	EyeComfort Mode	Yes
	Dolby Atmos	Yes
	Object Tracking Sound	OTS Pro
	Q-Symphony	Yes
	Sound Output (RMS)	90W
	Speaker Type	6.2.4CH
	Active Voice Amplifier	Yes (Active Voice Amplifier Pro)
	Adaptive Sound	Yes (Adaptive Sound Pro)
	360 Audio	Yes

Smart Service	Operating System	Tizen™ Smart TV
	Bixby	Yes
	Far-Field Voice Interaction	Yes
	Built-in Voice Assistant	Alexa
	Works with AI Speaker	Alexa, Google Assistant
	Samsung TV Plus	Yes
	Web Browser	Yes
	SmartThings Hub / Matter Hub / IoT-Sensor Functionality / Quick Remote	Yes
Smart Feature	Multi Device Experience	TV to Mobile, Mobile to TV, TV initiate mirroring, Sound Mirroring, Wireless TV On, Tap View (requires Android 6.0† with Screen Cast capabilities or iPhone iOS 11.4† with AirPlay 2 support) (Tap View requires Android 8.1† with Screen Cast capabilities)
	Multi-View	Up to 4 videos
	Ambient Mode	N/A
	ScreenVitals	Yes
	Apple AirPlay 2	Yes
	Daily+	Yes
	Storage Share	Yes
	Generative Wallpaper	Yes
	Karaoke Mic	Yes
Game Feature	Auto Game Mode (ALLM)	Yes
	Game Motion Plus	Yes
	VRR	Yes
	Dynamic Black EQ	Yes
	Surround Sound	Yes
	Ultra Wide Game View	Yes
	MiniMap Zoom	Yes
	Hue Sync	Yes
	FreeSync	FreeSync Premium Pro
	HGiG	Yes
	Gaming Hub	Yes (KR, US, CA, BR, GB, FR, DE, IT, ES, MX, AU)
	AI Auto Game Mode	Yes
Tuner/Broadcasting	Digital Broadcasting	DVB-T(T2 Ready)
	Analog Tuner	Yes
	CI (Common Interface)	N/A

Connectivity	Wi-Fi	Yes (Wi-Fi 6E)
	Bluetooth	Yes (BT5.3)
	HDMI	5
	HDMI Maximum Input Rate	8K 120Hz, 4K 240Hz (for HDMI 1/2/3/4/5)
	HDMI Audio Return Channel	eARC
	One Connect Box	Wireless One Connect (Y25 8K)
	Anynet+ (HDMI-CEC)	Yes
	USB	3 x USB-A, 1 x USB-C
	POGO (SlimFit Cam Only)	N/A
	Ethernet (LAN)	1
	Audio Out (Mini Jack)	N/A
	Digital Audio Out (Optical)	1
	RF In (Terrestrial / Cable input / Satellite input)	1/1(Common Use for Terrestrial)/0
Design	Ex-Link (RS-232C)	N/A
	Design	Infinity Air
	Bezel Type	Zero Bezel
	Front Colour	GRAPHITE BLACK
	Stand Type	INFINITY AIR STAND
Additional Feature	Stand Colour	SPACE GRAPHITE
	Auto Rotation	N/A
	Art Mode	N/A
	Art Store	Yes
	Motion Detection	N/A
	Knox Vault	Yes
	Embedded POP	Yes
	EPG	Yes
	Extended PVR	Yes
	IP Control	Yes
Accessibility	OSD Language	Local Languages
	Voice Guide	Chinese (China), English (Australia), French (France), German (Germany), Italian (Italy), Korean (Korea), Malay (Malaysia), Spanish (Spain)
	Low Vision Support	Audio Subtitles, Relumino, Magnification, Audio Description, Zoom Menu and Text, High Contrast, SeeColors, Colour Inversion, Grayscale, Auto Picture Off
	Hearing Impaired Support	Closed Caption (Subtitle), Multi-output Audio, Sign Language Zoom
	Motor Impaired Support	Slow Button Repeat, Remote Control App. for All

Power & Eco Solution		85°
	Power Consumption (Max)	415 W
	Power Supply	AC220-240V ~ 50/60Hz
	Power Consumption (Stand-by)	0.5 W
	Power Consumption (Energy Saving Mode)	N/A
	Power Consumption (Typical)	330.0 W
	Yearly Power Consumption (EU standard)	1208 kWh
	Eco Sensor	Yes
	Auto Power Saving	Yes
	Energy Efficiency Class	3
	Auto Power Off	Yes
Dimension	Package Size (WxHxD)	2052.0 x 1254.0 x 220.0 mm
	Set Size with Stand (WxHxD)	1877.4 x 1145.2 x 304.9 mm
	Set Size without Stand (WxHxD)	1877.4 x 1067.1 x 13.3 mm
	Stand (Basic) (WxD)	370.0 x 304.9 mm
	Stand (Minimum) (WxD)	N/A
	VESA Spec	600 x 400 mm
Weight	Package Weight	70.2 kg
	Set Weight with Stand	53.4 kg
	Set Weight without Stand	42.7 kg
Accessory	Remote Controller Model	TM2360E
	Slim Fit Wall-mount Support	Yes
	Studio Stand Support	N/A
	Auto-Rotation Accessory Support	N/A
	Full Motion Slim Wall Mount Support (Y22)	Yes
	SlimFit Cam Support	Yes
	Zigbee / Thread Module	Built-In
	User Manual	Yes
	Power Cable	Yes