

Samsung QE50QN90FAT 127 cm (50") 4K Ultra HD Smart TV Wi-Fi Black

Brand : Samsung

Product code: QE50QN90FATXXH

Product name : QE50QN90FAT

- 4K AI Upscaling Pro & NQ4 AI Gen3 Processor¹: Our best 4K AI processor optimises picture and sound for our ultimate 4K viewing
- Neo Quantum HDR with Mini LEDs, now Glare Free⁵: See every detail with bright whites, deep blacks and stunning contrast - glare free
- AI Motion Enhancer Pro and Motion Xcelerator 165Hz¹²: AI delivers ultra-smooth motion and virtually no lag or blur for sports and gaming
- Dolby Atmos® with Object Tracking Sound Lite: Immersive surround sound that flows with every action
- Quantum Matrix Technology Plus: Don't miss a thing with Mini LED technology for a brighter, better picture
50" Neo QLED QN90F 4K Vision AI Smart TV (2025)
Samsung QE50QN90FAT. Display diagonal: 127 cm (50"), Display resolution: 3840 x 2160 pixels, HD type: 4K Ultra HD, Display technology: Neo QLED, Screen shape: Flat. Smart TV. Motion interpolation technology: Motion Xcelerator. Digital signal format system: DVB-CS2, DVB-T2. Wi-Fi, Ethernet LAN.
Product colour: Black



Display		Performance	
Display diagonal *	127 cm (50")	High Dynamic Range (HDR) supported *	✓
HD type *	4K Ultra HD	AMD FreeSync	✓
Display technology *	Neo QLED	AMD FreeSync type	FreeSync Premium Pro
Screen shape *	Flat	Game features	Auto Low Latency Mode (ALLM), Game Bar, Game Motion Plus, Gaming Hub, HGiG, Mini Map Zoom, Super Ultra Wide Game View, Surround Sound, Variable Refresh Rate (VRR)
Motion interpolation technology *	Motion Xcelerator		
Native refresh rate	120 Hz		
Display refresh rates supported	165 Hz	4K Ultra HD upscaling	✓
Display resolution *	3840 x 2160 pixels	SmartThings app support	✓
Anti-glare screen	✓	Multi View	✓
TV tuner		Ports & interfaces	
Tuner type *	Analog & digital	Audio Return Channel (ARC)	✓
Digital signal format system *	DVB-CS2, DVB-T2	Ethernet LAN (RJ-45) ports	1
Number of tuners	2 tuner(s)	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Smart TV		Digital audio optical out	1
Smart TV *	✓	RF ports quantity	1
Internet TV *	✓	Common interface (CI) *	✓
Operating system installed *	Tizen	Common interface Plus (CI+) *	✓
Operating system version	Tizen	Common interface Plus (CI+) version	1.4
Screen mirroring	✓	HDMI ports quantity *	4
Apple AirPlay 2 support	✓	Consumer Electronics Control (CEC)	Anynet+
Hybrid Broadcast Broadband TV (HbbTV)	✓	Management features	
Hybrid Broadcast Broadband TV (HbbTV) version	HbbTV 2.0.4	Voice control	✓
Far-field voice interaction	✓	Electronic Programme Guide (EPG)	✓
Audio		On Screen Display (OSD)	✓
RMS rated power *	20 W	Number of OSD languages	27
Audio output channels	2.0 channels	Auto power off	✓
Sound modes	Adaptive Sound Pro, Surround		
Audio pre-selection descriptor	✓		

Audio		Management features	
Adaptive sound	✔	Works with Amazon Alexa	✔
Active voice amplifier (AVA)	✔	Works with the Google Assistant	✔
Enhanced Audio Return Channel (eARC)	✔	Works with Samsung Bixby	✔
Network		Power	
Wi-Fi *	✔	Power consumption (typical) *	60 W
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Power consumption (standby) *	0.5 W
Bluetooth *	✔	Power consumption (max)	170 W
Bluetooth version	5.3	Energy efficiency class (SDR) *	F
Ethernet LAN *	✔	Energy efficiency class (HDR) *	G
Miracast	✘	Energy consumption (SDR) per 1000 hours *	60 kWh
Web browser	✔	Energy consumption (HDR) per 1000 hours *	124 kWh
Design		Energy saving mode	✔
Product colour *	Black	Brand-specific features	
Colour name	Titan Black	Samsung technologies (AV/TV) 4K AI Upscaling Pro, AI Auto Game Mode, AI Customisation Mode, AI Energy Mode, AI Mode, AI Motion Enhancer Pro, AI Sound Pro, Auto Game Mode (ALLM), Auto HDR Remastering Pro, Colour Booster Pro, Dolby Atmos®, FreeSync Premium Pro, Game Bar, Gaming Hub, Motion Xcelerator 165Hz, Multiple Voice Assistants, NQ4 AI Gen3 Processor, Neo Quantum HDR, NeoSlim Design, Object Tracking Sound Lite, PANTONE Validated, Quantum Matrix Technology Plus, Real Depth Enhancer Pro, Samsung Health, Samsung Knox Security, Samsung Q-Symphony, Samsung TV Plus, Slim Fit Wall-Mount Compatible, Smart TV powered by Tizen, SmartThings, SmartThings Calibration Pro, SolarCell Remote, Supersize Picture Enhancer	
VESA mounting *	✔		
Panel mounting interface	200 x 200 mm		
Introduction year	2025		
Bezel type	3 Bezel-less		
Mini wall mount support	✔		
Stand type	Hexagon stand		
Stand colour	Black		
Performance			
High Dynamic Range (HDR) technology	HDR 10+, High Dynamic Range 10+ Adaptive (HDR10 Plus Adaptive), High Dynamic Range 10+ Gaming (HDR10 Plus Gaming), Neo Quantum HDR		
Game mode	✔		
Subtitles function	✔		
Eco sensor	✔		
AI Upscale	✔		
TV key support	✔		
Backlight dimming technology	Ultimate UHD Dimming		
Picture processing technology	Samsung Real Depth Enhancer Pro		
		Weight & dimensions	
		Width (with stand)	1113.6 mm
		Depth (with stand)	220 mm
		Height (with stand)	705.4 mm
		Weight (with stand)	17.6 kg
		Width (without stand)	1113.6 mm
		Depth (without stand)	26.9 mm
		Height (without stand)	644.1 mm
		Weight (without stand)	13.5 kg
		Stand width	51.9 cm
		Stand depth	22 cm
		Packaging data	
		Package width	1317 mm
		Package depth	140 mm
		Package height	767 mm
		Package weight	21.5 kg
		Packaging content	
		Cables included	AC
		Remote control included	✔
		Remote control type	TM2360E (UK, Italia add TM1240A)
		Smart Remote included	✔



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