

Samsung QE50QN90FATXXU TV 127 cm (50") 4K Ultra HD Smart TV Wi-Fi Black

Brand : Samsung
Product code: QE50QN90FATXXU
Product name : QE50QN90FATXXU

- 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 QE50QN90FATXXU. 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. Wi-Fi, Ethernet LAN. Product colour: Black



Display		Ports & interfaces	
Display diagonal *	127 cm (50")	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
HD type *	4K Ultra HD	Digital audio optical out	1
Display technology *	Neo QLED	RF ports quantity	1
Screen shape *	Flat	Common interface (CI) *	✓
Motion interpolation technology *	Motion Xcelerator	Common interface Plus (CI+) *	✓
Native refresh rate	120 Hz	HDMI ports quantity *	4
Display refresh rates supported	165 Hz	Consumer Electronics Control (CEC)	Anynet+
Display resolution *	3840 x 2160 pixels	Management features	
Anti-glare screen	✓	Voice control	✓
TV tuner		Electronic Programme Guide (EPG)	✓
Tuner type *	Analog & digital	Auto power off	✓
Smart TV		Works with Amazon Alexa	✓
Smart TV *	✓	Works with the Google Assistant	✓
Internet TV *	✓	Works with Samsung Bixby	✓
Operating system installed *	Tizen	Power	
Operating system version	Tizen	Power consumption (typical) *	60 W
Screen mirroring	✓	Power consumption (standby) *	0.5 W
Apple AirPlay 2 support	✓	Power consumption (max)	170 W
Far-field voice interaction	✓	Energy efficiency class (SDR) *	F
Video apps	Samsung TV Plus	Energy efficiency class (HDR) *	G
Audio		Energy consumption (SDR) per 1000 hours *	60 kWh
RMS rated power *	20 W	Energy consumption (HDR) per 1000 hours *	124 kWh
Audio output channels	2.0 channels	Energy saving mode	✓
Sound modes	Adaptive Sound Pro, Surround		
Audio pre-selection descriptor	✓		
Adaptive sound	✓		

Audio		Brand-specific features	
Q-Symphony	✓	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
Active voice amplifier (AVA)	✓		
Enhanced Audio Return Channel (eARC)	✓		
Audio system	Dolby Atmos		
Network			
Wi-Fi *	✓	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
Bluetooth *	✓		
Bluetooth version	5.3		
Ethernet LAN *	✓		
Miracast	✗		
Design		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
Product colour *	Black		
Colour name	Titan Black		
VESA mounting *	✓		
Panel mounting interface	200 x 200 mm		
Introduction year	2025	Technical details	
Bezel type	3 Bezel-less	Sound technology	Dolby Atmos, Q-Symphony, OTS Lite, Surround, 360 Audio, Adaptive Sound Pro, Active Voice Amplifier Pro,
Mini wall mount support	✓		
Stand type	Hexagon stand	Processor	NQ4 AI Gen3 Processor
Stand colour	Black		
Performance		Weight & dimensions	
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	Width (with stand)	1113.6 mm
		Depth (with stand)	220 mm
		Height (with stand)	705.4 mm
		Weight (with stand)	17.6 kg
Game mode	✓	Width (without stand)	1113.6 mm
Subtitles function	✓	Depth (without stand)	26.9 mm
High Dynamic Range (HDR) supported *	✓	Height (without stand)	644.1 mm
AMD FreeSync	✓	Weight (without stand)	13.5 kg
		Packaging data	
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)	Manual	✓
		Package weight	21.5 kg
		Package width	1317 mm
		Package depth	140 mm
		Package height	767 mm
4K Ultra HD upscaling	✓	Package weight	21.5 kg
Auto standby	✓	Packaging content	
SmartThings app support	✓	Cables included	AC
Ports & interfaces		Remote control included	✓
Audio Return Channel (ARC)	✓	Remote control type	TM2360E (UK, Italia add TM1240A)
Ethernet LAN (RJ-45) ports	1	Smart Remote included	✓
		Other features	
		Annual energy consumption	83 kWh
		Aerial input	DVB-T2CS2 x2
		HDMI	✓
		Country of origin	Slovakia
		Mains power	✓
		Stand	SHARP NECK HEXAGON

Other features

Brand-specific features

NQ4 AI Gen3 Processor, 4K AI Upscaling Pro, Glare Free, Neo Quantum HDR+, Quantum Matrix Technology Plus, Dolby Atmos® (virtual), NeoSlim Design, AI Motion Enhancer Pro, Object Tracking Sound+, Smart TV powered by Tizen OS*, Gaming Hub, Samsung TV Plus, AI Sound Pro, Motion Xcelerator 165Hz, PANTONE Validated, Samsung Q-Symphony, Samsung Knox Security, SmartThings, Colour Booster Pro, Real Depth Enhancer Pro, Auto HDR Remastering Pro, Supersize Picture Enhancer, AI Auto Game Mode, Game Bar, AI Mode, AI Customisation Mode, SolarCell Remote, Slim Fit Wall-Mount Compatible, FreeSync Premium Pro, SmartThings Calibration Pro, Auto Game Mode (ALLM), AI Energy Mode, Multi View, Multiple Voice Assistants, Samsung Health*



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Catalog Object Cloud



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