

Samsung 55" OLED S90F 4K Vision AI Smart TV (2025)

Brand : Samsung

Product code: QE55S90FAEXXH

Product name : 55" OLED S90F 4K Vision AI Smart TV (2025)



- 4K AI Upscaling Pro & NQ4 AI Gen3 Processor¹: Our best 4K AI processor optimises picture and sound for our ultimate 4K viewing
 - OLED Technology with OLED HDR+: Pure blacks and vivid colour expertly balanced for cinematic viewing
 - AI Motion Enhancer Pro and Motion Xcelerator 144Hz⁷: 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
 - LaserSlim Design: An elegantly minimal TV design that's gorgeous to look at, from all sides
- 55" OLED S90F 4K Vision AI Smart TV
- Samsung 55" OLED S90F 4K Vision AI Smart TV (2025). Display diagonal: 139.7 cm (55"), Display resolution: 3840 x 2160 pixels, HD type: 4K Ultra HD, Display technology: OLED, Screen shape: Flat. Smart TV. Motion interpolation technology: Motion Xcelerator, Native aspect ratio: 16:9. Digital signal format system: DVB-S2, DVB-C, DVB-T2. Wi-Fi, Ethernet LAN. Product colour: Black

Display		Performance	
Display diagonal *	139.7 cm (55")	Tap view	✓
HD type *	4K Ultra HD	Multi View	✓
Display technology *	OLED	Smartphone/tablet remote support	✓
Screen shape *	Flat	Ports & interfaces	
Native aspect ratio *	16:9	Audio Return Channel (ARC)	✓
Motion interpolation technology *	Motion Xcelerator	PC in (D-Sub) *	✗
Native refresh rate	100 Hz	Ethernet LAN (RJ-45) ports	1
Display refresh rates supported	144 Hz	USB 2.0 ports quantity *	2
Display resolution *	3840 x 2160 pixels	Digital audio optical out	1
Display diagonal (metric)	138 cm	RF ports quantity	4
Anti-glare screen	✓	Common interface (CI) *	✓
TV tuner		Common interface Plus (CI+) *	✓
Tuner type *	Analog & digital	Common interface Plus (CI+) version	1.4
Digital signal format system *	DVB-S2, DVB-C, DVB-T2	HDMI ports quantity *	4
Number of tuners	2 tuner(s)	Consumer Electronics Control (CEC)	Anynet+
Auto channel search	✓	Management features	
Smart TV		Voice guide	✓
Smart TV *	✓	Electronic Programme Guide (EPG)	✓
Internet TV *	✓	On Screen Display (OSD)	✓
Operating system installed *	Tizen	Number of OSD languages	27
Apple AirPlay 2 support	✓	Auto power off	✓
Sound mirroring	✓	Works with Amazon Alexa	✓
Hybrid Broadcast Broadband TV (HbbTV)	✓	Works with the Google Assistant	✓
Hybrid Broadcast Broadband TV (HbbTV) version	2.0.4	Works with Samsung Bixby	✓
Far-field voice interaction	✓	Power	
TV initiate mirroring	✓	Power consumption (typical) *	80 W
Universal guide	✓	Power consumption (standby) *	0.5 W
Audio		Energy efficiency class (SDR) *	G
RMS rated power *	60 W	Energy efficiency class (HDR) *	G
Audio output channels	2.1.2 channels	Energy consumption (SDR) per 1000 hours *	80 kWh
Audio decoders	Dolby Atmos	Energy consumption (HDR) per 1000 hours *	203 kWh
Audio pre-selection descriptor	✓	AC input voltage	220-240 V

Audio		Power	
Enhanced Audio Return Channel (eARC)	✔	AC input frequency	50/60 Hz
Network		Energy saving mode	✔
Wi-Fi *	✔	Energy efficiency scale	A to G
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Brand-specific features	
Bluetooth *	✔	Samsung technologies (AV/TV)	4K AI Upscaling, AI Auto Game Mode, AI Energy Mode, Active Voice Amplifier Pro, Adaptive Sound Pro, Auto HDR Remastering, EyeComfort Mode, Karaoke Mode, LaserSlim Design, Object Tracking Sound Lite, Q-Symphony, Smart Calibration, Ultra Viewing Angle
Bluetooth version	5.3		
Ethernet LAN *	✔		
Web browser	✔		
Design			
Product colour *	Black	Technical details	
VESA mounting *	✔	Processor	NQ4 AI Gen3
Panel mounting interface	300 x 200 mm	Weight & dimensions	
Introduction year	2025	Width (with stand)	1225.4 mm
Bezel type	4 Bezel-less	Depth (with stand)	265.2 mm
Stand type	Center stand	Height (with stand)	773.6 mm
Performance		Weight (with stand)	15.9 kg
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)	Width (without stand)	1225.4 mm
		Depth (without stand)	39.9 mm
Game mode	✔	Height (without stand)	708.6 mm
Ambient mode	Yes	Weight (without stand)	14.6 kg
AI Upscale	✔	Stand width	36.6 cm
TV key support	✔	Stand depth	26.5 cm
Picture processing technology	Samsung Real Depth Enhancer	Packaging data	
High Dynamic Range (HDR) supported *	✔	Package width	1385 mm
AMD FreeSync	✔	Package depth	153 mm
AMD FreeSync type	FreeSync Premium Pro	Package height	832 mm
Game features	Auto Low Latency Mode (ALLM), Dynamic Black EQ, Game Motion Plus, Gaming Hub, Mini Map Zoom, Surround Sound, Ultra Wide Game, Variable Refresh Rate (VRR)	Package weight	21.4 kg
		Packaging content	
SmartThings app support	✔	Desktop stand	✔
		Cables included	AC
		Remote control included	✔
		Remote control type	TM2560E (EU 5 country)(+TM1240A), TM2360E(except 5 country)

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Publication date: 12-APR-2026. Prints or copies of Information are only valid on the printed Publication date