SAMSUNG

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

Brand : Samsung

Product code: QE55S90FAEXXU

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

- 4K AI Upscaling Pro & NQ4 AI Gen3 Processor[1]: 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 144Hz[7]: 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
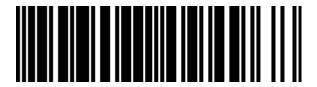55" OLED S90F 4K Vision AI Smart TV (2025)
Samsung 55" OLED S90F 4K Vision AI Smart TV (2025). Display diagonal: 139.7 cm (55"), Display
resolution: 3840 x 2160 pixels, HD type: 4K Ultra HD, Display technology: OLED, Screen shape: Flat.
Smart TV. Motion interpolation technology: Motion Xcelerator, Native aspect ratio: 16:9. Digital signal
format system: DVB-S2, DVB-C, DVB-T2. Wi-Fi, Ethernet LAN. Product colour: Black

Display

Display diagonal *	139.7 cm (55")
HD type *	4K Ultra HD
Display technology *	OLED
Screen shape *	Flat
Native aspect ratio *	16:9
Motion interpolation technology *	Motion Xcelerator
Native refresh rate	100 Hz
Display refresh rates supported	144 Hz
Display resolution *	3840 x 2160 pixels
Display diagonal (metric)	138 cm
Anti-glare screen	✔

TV tuner

Tuner type *	Analog & digital
Digital signal format system *	DVB-S2, DVB-C, 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	✔

Audio

RMS rated power *	60 W
Audio output channels	2.1.2 channels
Audio decoders	Dolby Atmos

Performance

Tap view	✔
Multi View	✔
Smartphone/tablet remote support	✔

Ports & interfaces

Audio Return Channel (ARC)	✔
PC in (D-Sub) *	✗
Ethernet LAN (RJ-45) ports	1
USB 2.0 ports quantity *	2
Digital audio optical out	1
RF ports quantity	4
Common interface (CI) *	✔
Common interface Plus (CI+) *	✔
Common interface Plus (CI+) version	1.4
HDMI ports quantity *	4
Consumer Electronics Control (CEC)	Anynet+

Management features

Voice guide	✔
Electronic Programme Guide (EPG)	✔
On Screen Display (OSD)	✔
Number of OSD languages	27
Auto power off	✔
Works with Amazon Alexa	✔
Works with the Google Assistant	✔
Works with Samsung Bixby	✔

Power

Power consumption (typical) *	80 W
Power consumption (standby) *	0.5 W
Energy efficiency class (SDR) *	G
Energy efficiency class (HDR) *	G
Energy consumption (SDR) per 1000 hours *	80 kWh

Audio

Audio pre-selection descriptor	✔
Enhanced Audio Return Channel (eARC)	✔

Network

Wi-Fi *	✔
Wi-Fi standards	Wi-Fi 5 (802.11ac)
Bluetooth *	✔
Bluetooth version	5.3
Ethernet LAN *	✔
Web browser	✔

Design

Product colour *	Black
VESA mounting *	✔
Panel mounting interface	300 x 200 mm
Introduction year	2025
Bezel type	4 Bezel-less
Stand type	Center stand

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)
Game mode	✔
Ambient mode	Yes
AI Upscale	✔
TV key support	✔
Picture processing technology	Samsung Real Depth Enhancer
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, Mini Map Zoom, Surround Sound, Ultra Wide Game, Variable Refresh Rate (VRR)
SmartThings app support	✔

Power

Energy consumption (HDR) per 1000 hours *	203 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)	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

Technical details

Processor	NQ4 AI Gen3

Weight & dimensions

Width (with stand)	1225.4 mm
Depth (with stand)	265.2 mm
Height (with stand)	773.6 mm
Weight (with stand)	15.9 kg
Width (without stand)	1225.4 mm
Depth (without stand)	39.9 mm
Height (without stand)	708.6 mm
Weight (without stand)	14.6 kg
Stand width	36.6 cm
Stand depth	26.5 cm

Packaging data

Package width	1385 mm
Package depth	153 mm
Package height	832 mm
Package weight	21.4 kg

Packaging content

Desktop stand	✔
Cables included	AC
Remote control included	✔
Remote control type	TM2560E (EU 5 country)(+TM1240A), TM2360E(except 5 country)

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Catalog Object Cloud