

Samsung OLED 4K S90F Smart TV: Review, Features & Should You Buy It?

Discover the Samsung OLED 4K S90F Smart TV 2025 with its OLED display, NQ4 Gen3 AI processor, 4K AI Upscaling Pro, OLED HDR+, 144Hz refresh rate, and Dolby Atmos sound.

Samsung OLED 4K S90F Smart TV: The 2025 OLED TV for a Superior Visual Experience

The **Samsung OLED 4K S90F Smart TV** is an OLED TV model from Samsung's 2025 product line, aimed at users who want to upgrade their home entertainment, sports, gaming, and viewing experience. The S90F series is positioned by Samsung with a 4K OLED screen, Samsung Vision AI platform, **NQ4 AI Gen3 Processor**, **4K AI Upscaling Pro** technology, **OLED HDR+**, and a refresh rate of up to **144Hz**.

Modern, slim design, suitable for high-end living spaces.

The Samsung S90F impresses with its minimalist design, thin bezels, and sleek center stand. This style allows the TV to easily blend into various spaces such as living rooms, bedrooms, home entertainment rooms, or modern apartments.

The strength of the Samsung OLED 4K S90F Smart TV's design lies in the feeling of a 'screen that stands out from the bezel'. When watching movies or playing games, users can focus on the content instead of being distracted by the TV bezel.

Picture 1 of Samsung OLED 4K S90F Smart TV: Review, Features & Should You Buy It?

The 4K OLED display delivers deep blacks and impressive contrast.

One of the reasons the Samsung OLED 4K S90F Smart TV is attracting attention is its OLED screen technology. With self-illuminating pixels, the TV is capable of reproducing deep blacks, high contrast, and images with greater depth than many conventional LED TVs.

Samsung states that the S90F uses **OLED HDR+** technology, in which the processor analyzes each frame to optimize brightness and contrast, resulting in clearer detail in both bright and dark areas.

NQ4 Gen3 AI Processor: Smarter Image Enhancement

The Samsung OLED 4K S90F Smart TV is equipped with **the NQ4 3.0 AI processor with 128 intelligent networks** . According to Samsung Vietnam, this processor supports image and sound enhancement, and helps content from OTT platforms, live sports, or games achieve better display quality on the 4K screen.

4K AI Upscaling Pro technology helps recognize content and upscale its resolution to near 4K, which is especially useful when users watch online videos, older movies, or content with quality lower than 4K.

Refresh rate up to 144Hz: a major advantage for gamers.

For gamers, the Samsung S90F is a very worthwhile option. The TV supports **Motion Xcelerator 144Hz** , delivering smoother motion when playing fast-paced games. Samsung notes that 4K 144Hz quality is only available with PC games that support this specification and require a compatible graphics card.

A high refresh rate helps reduce motion blur, screen tearing, and lag during fast-paced action. This is a big plus for those who frequently play racing, shooting, sports, or open-world games.

Immersive Dolby Atmos sound

Beyond just focusing on image quality, the Samsung OLED 4K S90F Smart TV also supports **Dolby Atmos** . According to Samsung, the speaker system combined with Dolby Atmos creates a multi-dimensional surround sound experience, providing a more immersive feeling when watching action movies, sports, or entertainment programs.

For a better experience, users can combine the TV with a Samsung soundbar that supports Dolby Atmos, especially in a large living room or dedicated entertainment space.

Smart TV platform, easy to use.

The Samsung S90F runs on Samsung's Smart TV platform, giving users quick access to online movie, music, sports, and entertainment apps. The S90F series is also part of the Samsung Vision AI TV 2025 ecosystem, aiming to optimize the viewing experience using AI and smart home connectivity.

Picture 2 of Samsung OLED 4K S90F Smart TV: Review, Features & Should You Buy It?

RTINGS describes the Samsung S90F as a mid-range OLED model in Samsung's 2025 OLED lineup, positioned below the S95F and above the S85F; the TV uses the 2025 version of Tizen OS, supports HDR10+ and Dolby Atmos, but does not support Dolby Vision or DTS.

Key features of the Samsung OLED 4K S90F Smart TV

Category	Featured information
Product line	Samsung OLED S90F 2025

Category	Featured information
Resolution	4K, 3,840 x 2,160
Display technology	OLED
Processor	NQ4 AI Gen3 Processor
Image enhancement	4K AI Upscaling Pro
HDR	OLED HDR+, HDR10+ Adaptive/Gaming
Scanning frequency	100Hz, up to 144Hz
Motion technology	Motion Xcelerator 144Hz
Sound	Dolby Atmos
Common sizes	55, 65, 77, and 83-inch TVs are available at Samsung Vietnam.
Operating system	Samsung/Tizen Smart TV

Key specifications such as 4K resolution, refresh rate up to 144Hz, OLED HDR+, HDR10+, and 4K AI Upscaling Pro are announced by Samsung Vietnam in the product specifications section.

Who is the Samsung OLED 4K S90F Smart TV suitable for?

The Samsung S90F is suitable for users who want a high-end OLED TV but still want a balance between performance, design, and value for money. It's a good choice for families who frequently watch movies, sports enthusiasts, PC/console gamers, and anyone looking to upgrade their home entertainment space.

This product is particularly suitable if you prioritize deep blacks, high contrast, richly detailed images, and smooth motion. However, if you need Dolby Vision, you should reconsider, as the Samsung S90F does not support this format according to RTINGS' review.

Outstanding advantages

The Samsung OLED 4K S90F Smart TV boasts several notable strengths: a high-contrast OLED screen, a powerful NQ4 Gen3 AI processor, 4K AI Upscaling Pro image enhancement technology, OLED HDR+, a refresh rate of up to 144Hz, and Dolby Atmos. These features make the TV well-suited for watching movies, playing games, and everyday entertainment.

Points to consider before buying

The Samsung S90F is a powerful OLED TV, but buyers should still be aware of a few points. The TV doesn't support Dolby Vision and DTS according to RTINGS, so if your movie library or playback device relies heavily on Dolby Vision, this is a factor to consider. Additionally, the effectiveness of 4K 144Hz depends on the source, gaming device, and compatible graphics card.

Should you buy the Samsung OLED 4K S90F Smart TV?

Yes. **The Samsung OLED 4K S90F Smart TV** is a very worthwhile purchase if you're looking for a modern 4K OLED TV with beautiful picture quality, vibrant colors, AI content enhancement, and smooth gaming capabilities. With its NQ4 AI Gen3 processor, OLED HDR+, Motion Xcelerator 144Hz, and Dolby Atmos, the S90F is powerful enough to become a premium home entertainment center.

If your needs are for watching movies, playing games, watching sports, and using Smart TV daily, the Samsung S90F is a 2025 OLED TV model worth prioritizing.

FAQ: Frequently Asked Questions about Samsung OLED 4K S90F Smart TV

What is the resolution of the Samsung OLED 4K S90F Smart TV?

The Samsung S90F has a 4K resolution, equivalent to 3,840 x 2,160 pixels.

Does the Samsung S90F support 144Hz?

Yes. The Samsung S90F supports refresh rates up to 144Hz with Motion Xcelerator 144Hz, which is especially useful when playing PC games that support 4K 144Hz.

Does the Samsung OLED S90F have Dolby Atmos?

Yes. The Samsung S90F supports Dolby Atmos, providing a more immersive surround sound experience for movies and entertainment.

Does the Samsung S90F have Dolby Vision?

According to RTINGS, the Samsung S90F does not support Dolby Vision HDR and does not support DTS audio.

What needs is the Samsung OLED 4K S90F Smart TV suitable for?

This product is suitable for watching movies, playing games, watching sports, family entertainment, and for users who want to upgrade to a 4K OLED TV with AI image processing.

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