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Samsung QN77S90FAFXZA

Samsung QN77S90FAFXZA 77 Inch 4K OLED Smart TV Instruction Manual

Model: QN77S90FAFXZA | Brand: Samsung

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your new Samsung QN77S90FAFXZA 77 Inch 4K OLED Smart TV. Please read it thoroughly to ensure safe and optimal use of your television.

The Samsung QN77S90FAFXZA features a stunning 77-inch 4K OLED display, powered by the NQ4 AI Gen3 Processor for enhanced picture and sound. It includes Dolby Atmos for immersive audio and a 144Hz refresh rate for smooth motion. This model comes with a 2-year Amber Protection Plan and an HDTV screen cleaner kit.



Image: Front view of the Samsung QN77S90FAFXZA 77 Inch 4K OLED Smart TV, showcasing its slim design and vibrant display.

2. SETUP

2.1 Unboxing and Package Contents

Carefully remove all components from the packaging. Ensure all items listed below are present:

- Samsung QN77S90FAFXZA 77" 4K OLED Smart TV
- Power Cable
- User Manual (this document)
- SolarCell Remote (TM2560E)
- Amber Protection HDTV Screen Cleaner Kit

Model: 77" S90F OLED



Dimensions:

(INCHES W x H x D):

- TV Without Stand: 67.7 x 38.9 x 1.8
- TV With Stand: 67.7 x 41.7 x 14.1
- Stand Footprint: 14.4 x 12.8 x 14.1

Stand height not shown in visual. Features and specifications subject to change.

What's in the box:

- TV
- Power Cable
- User Manual
- SolarCell™ Remote TM2560E ▼



Image: A diagram illustrating the dimensions of the 77-inch S90F OLED TV and a list of items included in the box, such as the TV, power cable, user manual, and SolarCell Remote.

2.2 Physical Setup and Dimensions

The television can be placed on a stand or wall-mounted. Refer to the diagram for dimensions and ensure adequate space and ventilation.

- **TV Without Stand (W x H x D):** 67.7 x 38.9 x 1.8 inches
- **TV With Stand (W x H x D):** 67.7 x 41.7 x 14.1 inches
- **Stand Footprint:** 14.4 x 12.8 x 14.1 inches
- **Item Weight:** 80.7 pounds
- **VESA Mount Compatibility:** 400mm x 300mm

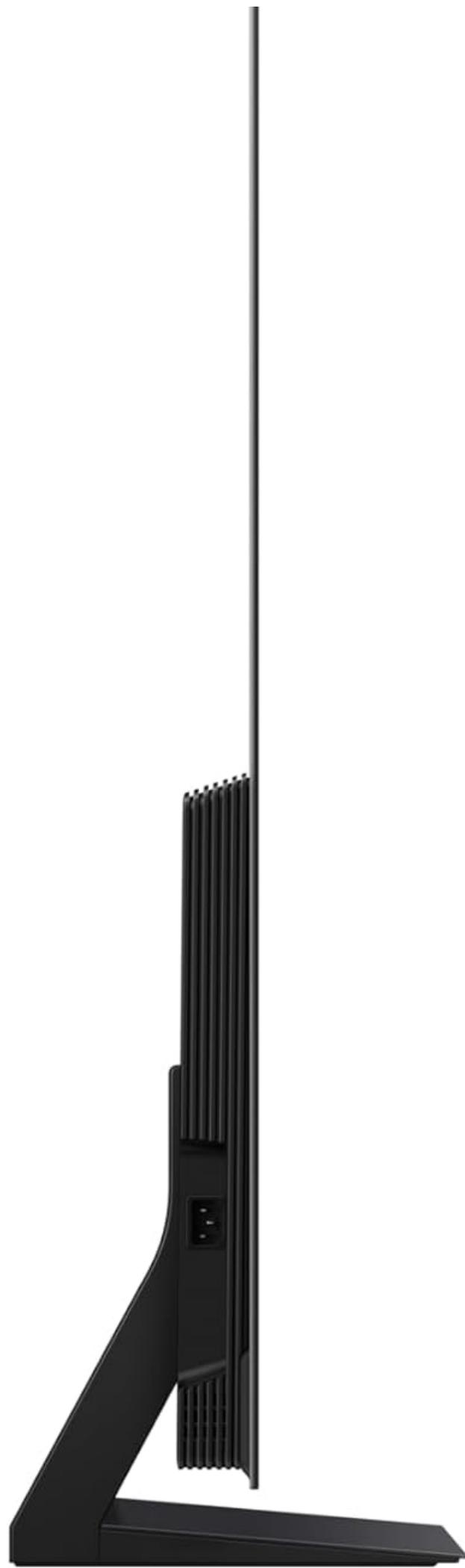


Image: A side profile view of the Samsung QN77S90FAFXZA OLED TV, demonstrating its exceptionally thin design.

2.3 Connections

Connect your external devices to the appropriate ports on the back of the TV. This model includes:

- 4 HDMI ports (HDMI 3 supports eARC)
- 2 USB-A ports
- LAN port for wired internet connection
- Antenna input
- Wi-Fi 5 for wireless internet connection



Image: A detailed view of the rear panel of the Samsung QN77S90FAFXZA TV, showing the arrangement of HDMI, USB, LAN, and antenna input ports.

3. OPERATING

3.1 Smart TV Features (Tizen OS)

Your Samsung Smart TV runs on the Tizen operating system, providing access to a wide range of applications and content through the Smart Hub. Popular supported services include Netflix, Prime Video, Disney+, Hulu, Apple TV, YouTube, HBO Max, Peacock, and Slings.

The Smart Hub allows for quick navigation and personalized content recommendations. You can also utilize features like Samsung Health for fitness tracking and SmartThings for controlling compatible smart home devices.

3.2 SolarCell Remote

The included SolarCell Remote (TM2560E) is designed for convenience and sustainability. It can be charged via solar power or a USB-C connection. Key functions include:

- **Voice Control:** Use the built-in microphone for voice commands.
- **Volume Control:** Adjust volume by pressing up/down. Mute by pressing in.
- **Channel Control:** Change channels by pressing up/down.
- **Quick Access Buttons:** Dedicated buttons for popular streaming services.

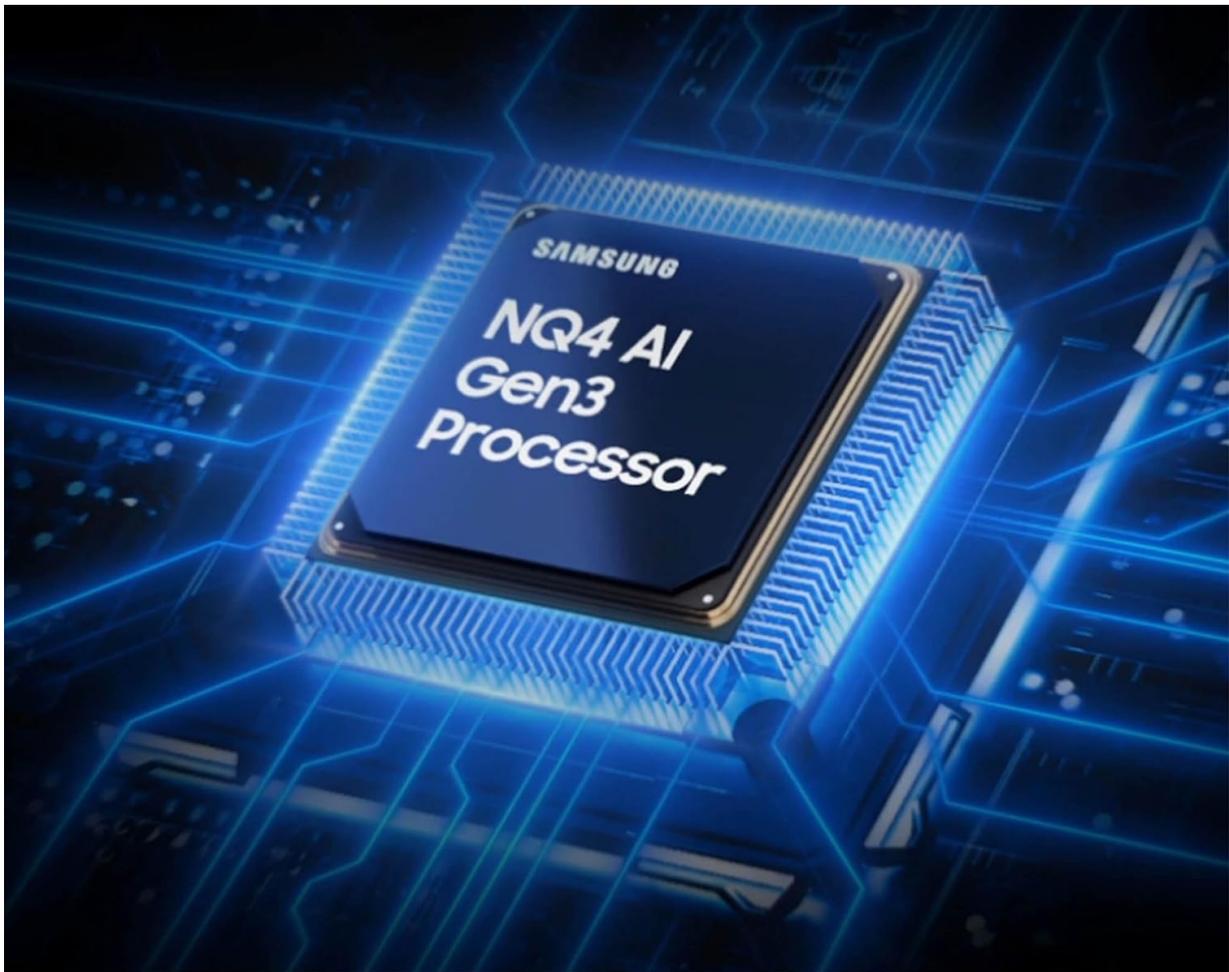
3.3 Picture and Sound Enhancement (AI Features)

The NQ4 AI Gen3 Processor utilizes AI-based formulas to optimize your viewing experience:

- **4K AI Upscaling Pro:** Transforms lower resolution content to impressive 4K resolution using 128 neural networks.
- **OLED HDR+:** Delivers powerful brightness and deeper contrast in every pixel for a more dynamic image.
- **AI Motion Enhancer Pro:** Enhances motion clarity.
- **Real Depth Enhancer:** Adds depth to images for a more lifelike viewing experience.
- **Color Booster Pro:** Provides vibrant and accurate color reproduction.



Image: A graphic representation of the NQ4 AI Gen3 Processor, highlighting its role in enhancing TV performance.



NQ4 AI Gen3 Processor

Our most advanced 4K AI processor powers improved picture, sound and new experiences*

*Utilizes AI-Based formulas.

Image: A visual demonstrating the 4K AI Upscaling Pro feature, showing a child hugging a dog with enhanced clarity and detail.



Image: A scenic view of a river and lush greenery, with a highlighted area demonstrating the enhanced contrast and brightness provided by OLED HDR+.

3.4 Gaming Features

Designed for gamers, this TV offers a smooth and responsive experience:

- **Motion Xcelerator 144Hz:** Enjoy ultra-smooth motion with a 144Hz refresh rate, ideal for fast-paced gaming (4K 144Hz is available with PC connected games that support such specifications; PC graphic card required).
- **Variable Refresh Rate (VRR):** Reduces screen tearing and stuttering for fluid gameplay.
- **Game Mode Settings:** Access a dedicated Game Bar for quick adjustments like Virtual Aim Point, Minimap Auto Detection, Surround Sound, Dynamic Black Equalizer, and Game Motion Plus settings (Blur Reduction, Judder Reduction, LED Clear Motion).



4K AI Upscaling Pro

AI transforms content to a sharp, smooth 4K experience with 128 neural networks*

*Utilizes AI-Based formulas.

Image: A dynamic scene of two race cars on a track, demonstrating the smooth motion and clarity provided by Motion Xcelerator 144Hz.

3.5 Audio Features

Experience immersive sound with:

- **Dolby Atmos:** Delivers multi-dimensional sound that moves around you.
- **OTS Lite (Object Tracking Sound Lite):** Sound follows the action on screen.
- **Q-Symphony Pro:** Synchronizes TV speakers with compatible Samsung soundbars for a richer audio experience.
- **Bluetooth Audio:** Connect wireless headphones or speakers.
- **360 Audio:** Provides an immersive audio experience.
- **Sound Output Options:** Choose between TV speakers, optical output, or connect Bluetooth speakers. Expert settings allow for balance, equalizer adjustments, HDMI-eARC mode, and auto volume.

3.6 Art Mode and Daily Board

Transform your TV into a piece of art or a personalized information hub:

- **Art Mode:** Display various artworks or your own photos when the TV is off. Note that some art

content may require a paid subscription.

- **Daily Board:** Customize your screen with useful widgets and information, such as weather, news, and personal photos.

4. MAINTENANCE

To keep your screen clean and maintain optimal picture quality, use the provided Amber Protection HDTV Screen Cleaner Kit.

- **Non-Ammonia & Alcohol-Free:** The cleaning solution is safe for all display screens and will not cause damage.
- **Effective Cleaning:** Removes dust, dirt, and fingerprints without dripping.
- **Application:** Spray the solution onto the included microfiber cloth (not directly onto the screen) and gently wipe the screen surface.

Extended Protection Features & Benefits

- Mechanical & Electrical Failures
- Power Surge Protection
- Nationwide Network of Service Providers
- 24/7/365 Customer Support, and more.

When does the plan begin?

All plans begin from date of purchase and are inclusive of the manufacturer's limited coverage. Benefits such as Power Surge Protection and Mechanical & Electrical Failures (if purchased) begin on Day 1.

What items are eligible for extended protection?

Electronics with at least a 90 day manufacturer limited coverage in the United States.

Covered Products

- Televisions
- Laptops
- Tablets
- Home Theater
- Headphones
- And More

Image: A bottle of Amber Protection Screen Clean solution with two microfiber cloths, used for safe and effective screen cleaning.

5. TROUBLESHOOTING

If you encounter issues with your TV, try the following basic troubleshooting steps:

- **No Power:** Ensure the power cable is securely connected to both the TV and a working power outlet.
- **No Picture/Sound:** Verify that the correct input source is selected. Check all HDMI and audio cable connections.
- **Remote Not Responding:** Ensure the SolarCell Remote is charged. Try resetting the remote by removing and reinserting batteries (if applicable) or performing a soft reset.
- **Picture Quality Issues:** Adjust picture settings (brightness, contrast, color) in the TV menu. Ensure your content source is of high quality (e.g., 4K content for 4K display).
- **Smart Hub/App Issues:** Check your internet connection. Try restarting the TV or updating the app.

For more detailed troubleshooting, refer to the full user manual available on the Samsung support website or contact Samsung customer service.

6. SPECIFICATIONS

Feature	Detail
Brand	Samsung
Model Name	QN77S90FAFXZA
Screen Size	77 Inches
Display Technology	OLED
Resolution	4K
Refresh Rate	120 Hz (Up to 144Hz with PC connected games)
Processor	NQ4 AI Gen3 Processor
Audio Features	Dolby Atmos, OTS Lite, Q-Symphony Pro, Bluetooth Audio, 360 Audio
Smart TV Platform	Tizen Smart TV
Connectivity	Wi-Fi 5, 4 HDMI, 2 USB-A
Color	Graphite Black
Item Weight	80.7 Pounds
Product Dimensions	14.1"D x 67.7"W x 41.7"H
Energy Efficiency	Energy Star Compliant

7. WARRANTY AND SUPPORT

Your Samsung QN77S90FAFXZA TV includes a 1-Year Manufacturer's Warranty. Additionally, this bundle provides an extra 1-Year Amber Protection Plan, totaling 2 years of coverage. This protection plan is intended for residential use only.

Amber Protection Plan Features & Benefits:

- Mechanical & Electrical Failures coverage.
- Power Surge Protection.
- Access to a Nationwide Network of Service Providers.
- 24/7/365 Customer Support.

The Amber Protection Plan begins from the date of purchase and is inclusive of the manufacturer's limited coverage. Benefits such as Power Surge Protection and Mechanical & Electrical Failures (if purchased) begin on Day 1.

For support or to claim warranty services, please refer to the contact information provided with your Amber Protection Plan documentation or visit the Samsung support website.

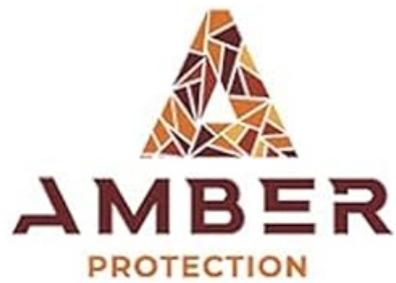


Image: The Amber Protection logo, signifying the extended coverage included with your television.

8. PRODUCT VIDEOS

Samsung S90F Series TV Product Review

Your browser does not support the video tag.

Video: A product review of the Samsung S90F Series TV, showcasing its features and performance.

Honest look at this Samsung QN65S90DAFXZA

Your browser does not support the video tag.

Video: An honest review of a Samsung S90D series TV, demonstrating its user interface and remote control features, which are similar to the S90F model.