Samsung QN83S90FAEXZA

Samsung QN83S90FAEXZA 83-Inch 4K OLED Smart TV User Manual

Model: QN83S90FAEXZA

Setup Operating Maintenance Troubleshooting Specifications Warranty Support

1. Setup

1.1 Unboxing and Initial Inspection

Carefully remove the television from its packaging. Ensure all components listed in the packing list are present and inspect the TV for any physical damage before proceeding with installation.



Image: Front view of the Samsung QN83S90FAEXZA 83-inch 4K OLED Smart TV.

Your browser does not support the video tag.

Video: A short preview demonstrating the unboxing process of a Samsung S90DAFXZA series TV.

1.2 Stand Installation / Wall Mounting

For stand installation, attach the provided stand to the television following the instructions in the separate quick setup guide. Ensure all screws are securely fastened. For wall mounting, use a VESA-compatible wall mount (400mm x 300mm) and consult a professional installer for safe and secure mounting.



Image: Diagram showing the dimensions of the 83-inch Samsung S90F OLED TV with and without its stand, along with a visual of the included SolarCell Remote.

1.3 Connecting Peripherals

Connect your external devices such as cable boxes, gaming consoles, or Blu-ray players to the TV's HDMI ports. The TV features 4 HDMI ports, including one with eARC support for enhanced audio return channel functionality. Two USB-A ports are also available for connecting storage devices or other USB peripherals.



Image: Close-up view of the rear panel of the Samsung QN83S90FAEXZA TV, highlighting the various input ports including HDMI, USB, LAN, and optical audio.

1.4 Power On and Network Connection

Plug the power cable into the TV and a wall outlet. Press the power button on the remote control. Follow the on-screen instructions to connect your TV to your home Wi-Fi network (Wi-Fi 5 supported) or via an Ethernet cable for a stable internet connection.

2. Operating the TV

2.1 Smart TV Features (Tizen OS)

Your Samsung QN83S90FAEXZA TV runs on the Tizen Smart TV operating system, providing access to a wide range of streaming services and applications such as Netflix, Prime Video, Disney+, Hulu, Apple TV, YouTube, HBO Max, Peacock, and Sling. Navigate the Smart Hub using your remote control to browse and launch apps.

Your browser does not support the video tag.

Video: A product review demonstrating the Samsung S90F Series TV's smart features and user interface.

2.2 Picture Settings and Enhancements

- **NQ4 AI Gen3 Processor:** This advanced processor utilizes AI-based formulas to upscale content to 4K resolution, enhancing picture quality.
- **4K AI Upscaling Pro:** Transforms all content to impressive 4K resolution using 128 neural networks.
- **OLED HDR+:** Delivers powerful brightness and deeper contrast for every pixel, ensuring vibrant and detailed visuals.
- **Motion Xcelerator 144Hz:** Provides smooth motion, especially beneficial for fast-paced content like sports and gaming. Note that 4K 144Hz is only available with PC-connected games that support such specifications (PC graphic card required), and performance may vary.

- **Ultra Viewing Angle:** Maintains consistent picture quality from various viewing positions.
- **Real Depth Enhancer:** Adds depth to images for a more immersive viewing experience.



Image: A visual representation of the NQ4 AI Gen3 Processor chip, highlighting its role in advanced picture processing.



Image: A graphic illustrating the 4K AI Upscaling Pro feature, showing how AI enhances image clarity and detail.

2.3 Audio Features

- **Dolby Atmos:** Experience immersive, multi-dimensional sound that moves around you.
- **OTS Lite (Object Tracking Sound Lite):** Sound follows the action on screen for a more dynamic audio experience.
- **Q-Symphony Pro:** Synchronizes TV speakers with compatible Samsung soundbars for an enhanced, harmonious sound.
- **Bluetooth Audio:** Connect Bluetooth-enabled audio devices wirelessly.

2.4 Remote Control

The TV comes with a BT SolarCell Remote, which can be charged via solar power or a Type-C port. This remote offers intuitive navigation and voice control capabilities for easy access to features and content.



Image: The Samsung SolarCell Remote Control, shown alongside the TV dimensions diagram.

3. Maintenance

3.1 Screen Cleaning

To clean your OLED screen, use the included Amber Protection HDTV Screen Cleaner Kit. The non-ammonia and alcohol-free solution is designed not to damage display screens and effectively removes dust, dirt, and fingerprints. Apply the liquid cleaner to a microfiber cloth (also included) and gently wipe the screen. Do not spray directly onto the screen.



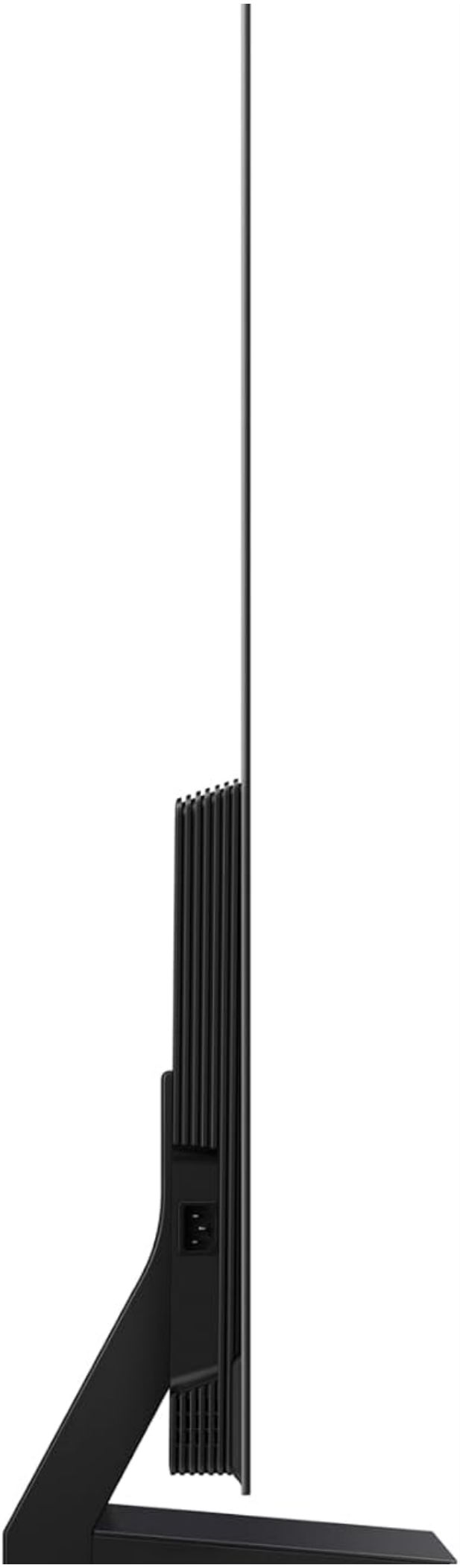


Image: The Amber Protection ScreenClean kit, featuring a spray bottle of cleaning solution and two microfiber cloths, designed for safe screen cleaning.

3.2 General Care

Avoid placing the TV in direct sunlight or near heat sources. Ensure adequate ventilation around the TV. Do not block ventilation openings. Unplug the TV during lightning storms or when unused for extended periods.

4. Troubleshooting

4.1 Common Issues and Solutions

- **No Picture, Only Audio:** Check all HDMI connections. Ensure the correct input source is selected. Power cycle the TV and any connected devices.
- **Remote Control Not Responding:** Ensure the SolarCell Remote is charged. Try pairing the remote again by following the instructions in the TV's settings menu.
- **Lagging or Freezing Smart TV Interface:** Ensure a stable internet connection. Restart the TV. Clear the cache of frequently used apps if the option is available in settings.
- **Picture Quality Issues:** Adjust picture settings (brightness, contrast, sharpness, color) in the TV's menu. Ensure the content source is high quality (e.g., 4K content for optimal 4K display).

5. Specifications

Screen Size	83 Inches
Brand	Samsung
Display Technology	OLED
Resolution	4K
Refresh Rate	120 Hz (Up to 144Hz with PC)
Model Name	QN83S90FAEXZA
Color	Graphite Black
Product Dimensions (D x W x H)	14.1"D x 72.9"W x 44.6"H
Item Weight	86.9 Pounds
Total HDMI Ports	4
Total USB Ports	2
Operating System	One UI Tizen
Wireless Technology	Bluetooth, Wi-Fi
Audio Output Mode	Surround (2.1 Channels)
Model Year	2025

6. Warranty Information

This product includes a full 1-year manufacturer's warranty. Additionally, this bundle includes a 3-Year Amber Protection Plan. The Amber Protection Plan covers mechanical & electrical failures and power surge protection, with benefits beginning on Day 1. It also provides access to a nationwide network of service providers and 24/7/365 customer support. This plan is intended for residential use only.



Image: A graphic detailing the features and benefits of the Amber Protection coverage, including mechanical/electrical failure and power surge protection.

7. Support

For technical assistance, troubleshooting, or warranty claims, please contact Samsung Customer Support. Refer to your product registration card or the official Samsung website for the most up-to-date contact information.
For inquiries regarding the Amber Protection Plan, please contact Amber Protection customer support directly.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question