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› [Samsung QN55S90FAFXZA 55 Inch 4K OLED Smart TV Instruction Manual](#)

## Samsung QN55S90FAFXZA

# Samsung QN55S90FAFXZA 55 Inch 4K OLED Smart TV Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your new Samsung QN55S90FAFXZA 55 Inch 4K OLED Smart TV. Please read it thoroughly to ensure proper use and to maximize your viewing experience. This bundle includes the Samsung QN55S90FAFXZA 55" 4K OLED Smart TV and a WireLogic Ruby 8ft Ultra High Speed 4K-8K-10K HDMI Cable.



Figure 1.1: Samsung QN55S90FAFXZA 55 Inch 4K OLED Smart TV.

Video 1.1: An overview of the Samsung S90F Series TV, highlighting its design and features.

## 2. WHAT'S IN THE BOX

Verify that all components are present before proceeding with the setup.

- Samsung QN55S90FAFXZA 55 Inch 4K OLED Smart TV
- One Connect Box
- TV Stand Components
- Power Cable
- SolarCell Remote (TM2560E)
- WireLogic Ruby 8ft Ultra High Speed 4K-8K-10K HDMI Cable
- User Manual & Documentation



Figure 2.1: The TV, remote, and stand components as typically found in the box.

### 3. SETUP

#### 3.1 Physical Installation

Your TV can be installed on the included stand or mounted on a wall. Ensure the TV is placed on a stable, level surface or securely mounted according to VESA standards.

##### Attaching the Stand:

1. Carefully place the TV face-down on a soft, flat surface to prevent screen damage.
2. Align the stand base with the mounting holes on the back of the TV.
3. Secure the stand using the provided screws. Do not overtighten.

##### Wall Mounting:

The TV supports VESA 300mm x 200mm for wall mounting. Use appropriate wall mount hardware (sold separately) and follow the wall mount manufacturer's instructions. Ensure the wall can support the TV's weight (approximately 38.1 pounds).

#### 3.2 Connecting the One Connect Box

The One Connect Box centralizes all your connections, simplifying cable management. Connect the One Connect Cable from the TV to the One Connect Box. Then, connect all external devices (HDMI, USB, etc.) to the One Connect Box.

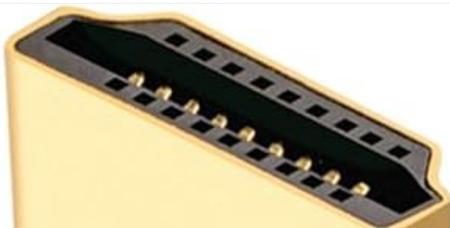




Figure 3.1: The included WireLogic Ruby HDMI Cable for high-speed connections.

### 3.3 Initial Power On and SmartThings Setup

After connecting the power cable, turn on the TV. Follow the on-screen instructions to complete the initial setup, including network connection and SmartThings integration. The SmartThings app on your mobile device can streamline this process.

Video 3.1: A demonstration of the SmartThings app for easy TV setup and control.

## 4. OPERATING YOUR TV

### 4.1 Smart Hub and Tizen OS

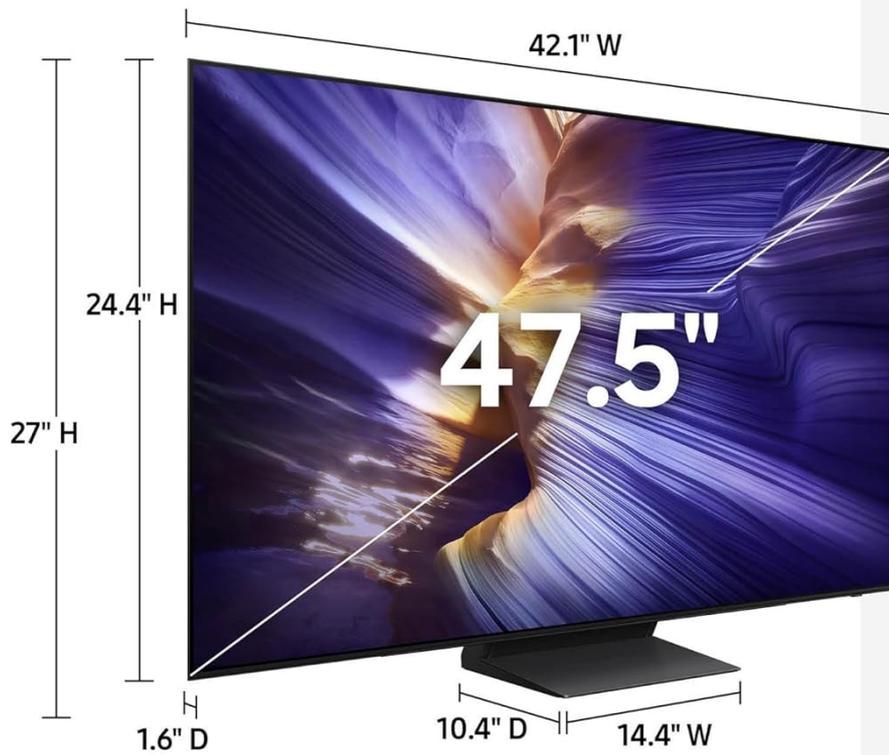
Your Samsung OLED TV runs on the Tizen Smart TV platform, providing access to a wide range of apps, streaming services (Netflix, Prime Video, Disney+, Hulu, Apple TV, YouTube, HBO Max, Peacock, Sling), and live TV channels. Navigate using the SolarCell Remote or the SmartThings app.

### 4.2 Picture Quality Features

Experience stunning visuals powered by advanced technologies:

- **NQ4 AI Gen3 Processor:** Utilizes AI-based formulas to upscale content to 4K resolution, enhancing picture and sound.
- **4K AI Upscaling Pro:** Transforms everything on screen to impressive 4K resolution using 128 neural networks.
- **OLED HDR+:** Delivers powerful brightness and deeper contrast in every pixel for a vibrant viewing experience.
- **Motion Xcelerator 144Hz:** Ensures smooth motion for fast-paced content and gaming, with 4K 144Hz available for compatible PC games.

# Model: 48" S90F OLED



## What's in the box:

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



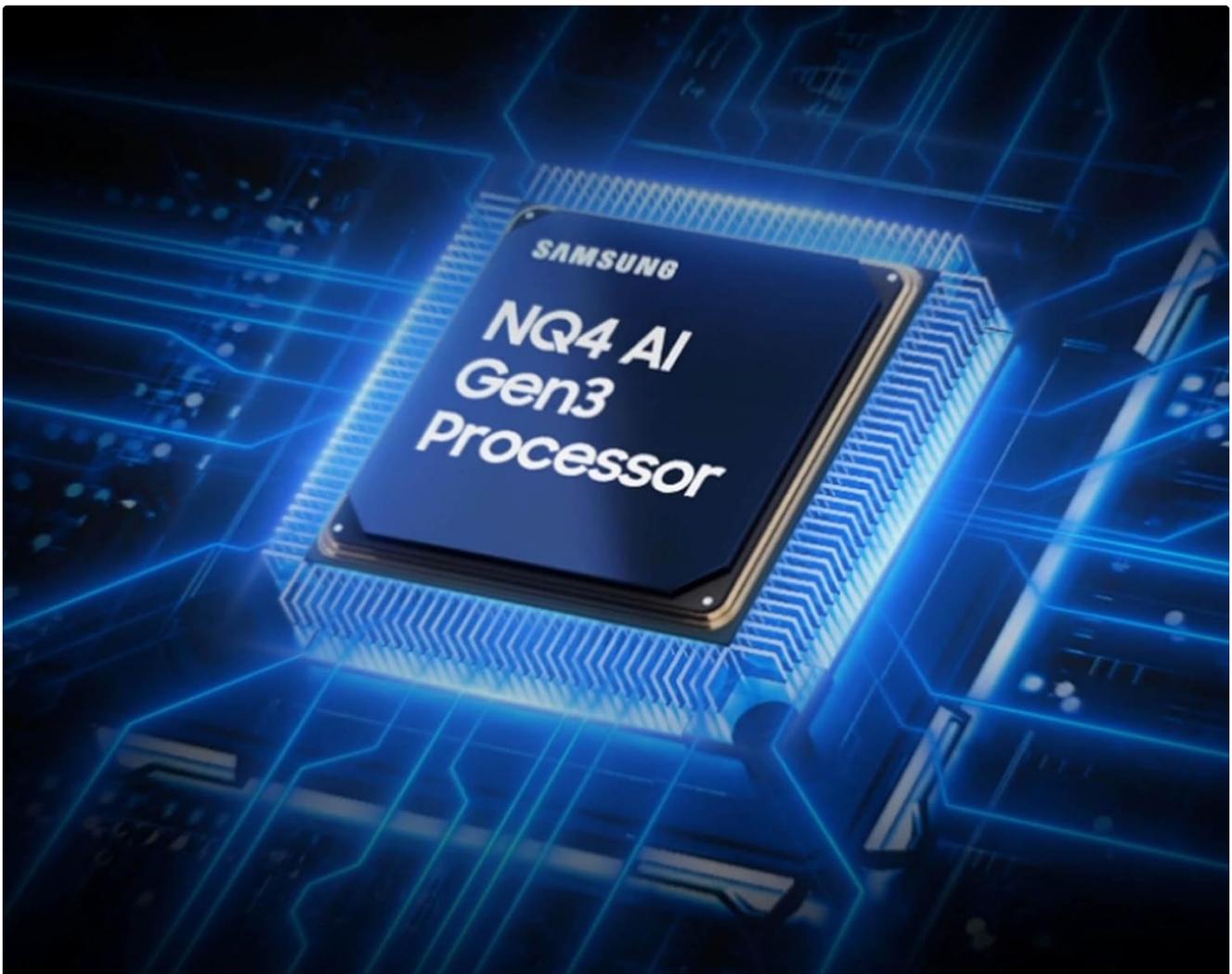
## Dimensions:

(INCHES W x H x D):

- TV Without Stand: 42.1 x 24.4 x 1.6
- TV With Stand: 42.1 x 27 x 10.4
- Stand Footprint: 14.4 x 11.8 x 10.4

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

Figure 4.1: The NQ4 AI Gen3 Processor, enhancing picture and sound.



## NQ4 AI Gen3 Processor

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

\*Utilizes AI-Based formulas.

Figure 4.2: 4K AI Upscaling Pro transforms content to sharp, smooth 4K.

### 4.3 Sound Features

The TV features built-in speakers with advanced audio technologies:

- **Dolby Atmos:** Provides immersive, multi-dimensional sound.
- **OTS Lite (Object Tracking Sound Lite):** Sound that follows the action on screen.
- **Q-Symphony Pro:** Synchronizes TV speakers with a compatible Samsung soundbar for an enhanced audio experience.

### 4.4 Voice Assistant

Control your TV and connected devices using voice commands with Bixby or Amazon Alexa.

### 4.5 Smart Features

- **Multi View:** Watch multiple content sources simultaneously on the same screen.
- **Live Translate:** Translate subtitles in real-time for supported content.

- **Ambient Mode:** Display decorative content or useful information when the TV is off.

Video 4.1: An overview of the S85F's key features, including picture and sound enhancements.

## 5. GAMING FEATURES

The Samsung QN55S90FAFXZA is optimized for an exceptional gaming experience:

- **AMD FreeSync Premium Pro:** Reduces screen tearing and stuttering for smooth gameplay.
- **144Hz Refresh Rate:** Supports up to 4K 144Hz for PC gaming (PC graphic card required).
- **Game Mode Settings:** Access a dedicated menu for gaming optimizations, including Virtual Aim Point, Minimap Zoom, Surround Sound, and Dynamic Black Equalizer.
- **HDMI 2.1:** All four HDMI ports are HDMI 2.1 compatible, supporting 4K/120Hz, VRR, and eARC.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your TV.

### 6.1 Cleaning the Screen

Gently wipe the screen with a soft, dry microfiber cloth. For stubborn smudges, lightly dampen the cloth with distilled water or a screen-cleaning solution specifically designed for electronics. Avoid harsh chemicals or abrasive materials.

### 6.2 Software Updates

Ensure your TV's software is up-to-date for optimal performance and new features. You can check for updates via the TV's settings menu or through the SmartThings app.

## 7. TROUBLESHOOTING

If you encounter issues, try these common troubleshooting steps:

- **No Power:** Check if the power cable is securely connected to both the TV and the power outlet. Try a different outlet.
- **No Picture/Sound:** Verify that the correct input source is selected. Check all cable connections to the One Connect Box and external devices.
- **Remote Not Working:** Ensure the SolarCell Remote is charged. Try pairing the remote again via the TV's settings.
- **Network Connection Issues:** Restart your router and modem. Reconnect the TV to your Wi-Fi network via the settings menu.

For further assistance, refer to the full e-Manual available on your TV or contact Samsung Support.

## 8. SPECIFICATIONS

Feature	Detail
Brand	Samsung
Model Name	QN55S90FAFXZA
Screen Size	55 Inches

Feature	Detail
Display Technology	OLED
Resolution	4K (3840 x 2160)
Refresh Rate	120 Hz (Up to 144Hz)
Processor	NQ4 AI Gen3 Processor
HDR Support	OLED HDR+
HDMI Ports	4 (HDMI 2.1)
USB Ports	2 x USB-A
Connectivity	Wi-Fi 5, Bluetooth Audio
Operating System	Tizen Smart TV
Dimensions (with stand)	10.4"D x 48.2"W x 30.5"H
Item Weight	38.1 Pounds
VESA Mount	300mm x 200mm

## 9. WARRANTY AND SUPPORT

Your Samsung QN55S90FAFXZA 55 Inch 4K OLED Smart TV comes with a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions. For technical support, troubleshooting, or service requests, visit the official Samsung support website or contact their customer service. Keep your purchase receipt as proof of purchase.