



[Manuals.plus](#) /

> [Samsung](#) /

> Samsung 65-Inch Class OLED 4K S90D Series HDR+ Smart TV w/Dolby Atmos, Object Tracking Sound Lite, Motion Xcelerator, Real Depth Enhancer, 4K AI Upscaling, Alexa Built-in (QN65S90D, 2024 Model) 65-Inch TV Only

## Samsung QN65S90DAFXZA

# Samsung 65-Inch Class OLED 4K S90D Series Smart TV User Manual

Model: QN65S90DAFXZA

## INTRODUCTION

---

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Samsung 65-Inch Class OLED 4K S90D Series Smart TV. This premium television delivers an exceptional viewing experience with detailed images, strong contrast, and clear motion. Its advanced AI-powered 4K upscaling enhances content clarity, bringing your entertainment to life.

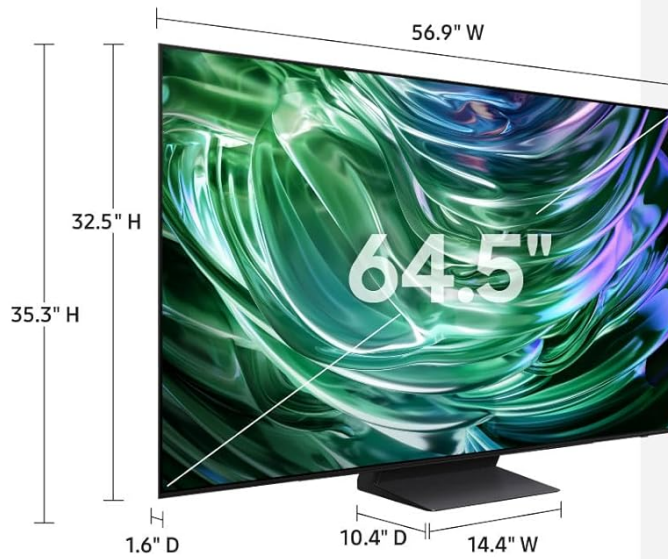
## WHAT'S IN THE BOX

---

Upon unboxing your new Samsung S90D Series TV, please ensure all the following components are present:

- Power Cable
- User Manual
- Remote (SolarCell Remote™ TM2360E)
- TV Stand Components (if applicable)

## Model: 65" S90D OLED



### Dimensions:

(INCHES W x H x D):

- TV Without Stand: 56.9 x 32.5 x 1.6
- TV With Stand: 56.9 x 35.3 x 10.4
- Stand Footprint: 14.4 x 11.8 x 10.4

Stand height not shown in visual

### What's in the box:

- TV
- Power Cable
- User Manual
- SolarCell Remote™ TM2360E



Features and specifications subject to change.

Figure 1: Package Contents and TV Dimensions. This diagram illustrates the physical dimensions of the 65-inch S90D OLED TV, both with and without its stand, and lists the main items included in the box: the TV unit, power cable, user manual, and the SolarCell Remote.

## SETUP

### Physical Installation

Carefully remove the TV from its packaging. You can choose to install the TV on its included stand or mount it on a wall (wall mount sold separately). Follow the detailed instructions provided in the separate quick setup guide for stand assembly or wall mounting.

### Connecting Peripherals

Connect your external devices such as cable boxes, gaming consoles, and sound systems to the appropriate ports on the back of the TV. Ensure all connections are secure.



Figure 2: Rear Connectivity Ports. This image highlights the various input and output ports available on the back of the TV, including multiple HDMI 2.1 ports (one with eARC support), USB ports, Digital Audio Output (Optical), LAN, and Cable/Antenna input.

## Initial Power On and Network Setup

Once the TV is physically set up and connected, plug in the power cable. The TV will guide you through the initial setup process, including connecting to your Wi-Fi network, signing into your Samsung Account (required for smart services), and scanning for channels.

## OPERATING YOUR TV: KEY FEATURES

### OLED Technology

Experience pure blacks, bright whites, and Pantone-validated colors. The pixel-packed screen delivers a dramatic view, revealing details even in the darkest and lightest scenes.



OLED Technology

**Discover details you've been missing—  
even in dark and light scenes.**

*Figure 3: OLED Technology in Action. This image showcases the vibrant details and deep contrast achieved with OLED technology, illustrating how the TV can display both bright lights and true blacks simultaneously.*

#### **OLED HDR+**

Enjoy powerful brightness and rich contrast. The TV analyzes each scene to boost brightness and improve image clarity, providing a stunning visual experience.



*Figure 4: Enhanced Brightness and Contrast with OLED HDR+. This image highlights the vivid colors and dynamic range provided by OLED HDR+, making scenes appear more lifelike and impactful.*

### **Motion Xcelerator 144Hz**

Play games and enjoy fast-paced content with ultra-smooth motion, virtually eliminating lag or blur. This feature ensures crisp visuals even during high-speed action sequences.



*Figure 5: Smooth Motion with Motion Xcelerator 144Hz. This image demonstrates the TV's ability to render fast-moving scenes with exceptional clarity and fluidity, ideal for gaming and action content.*

### **Real Depth Enhancer**

Experience depth and dimension on screen just like in real life. Real Depth Enhancer mirrors how the human eye processes depth by increasing foreground contrast, bringing a more immersive picture.

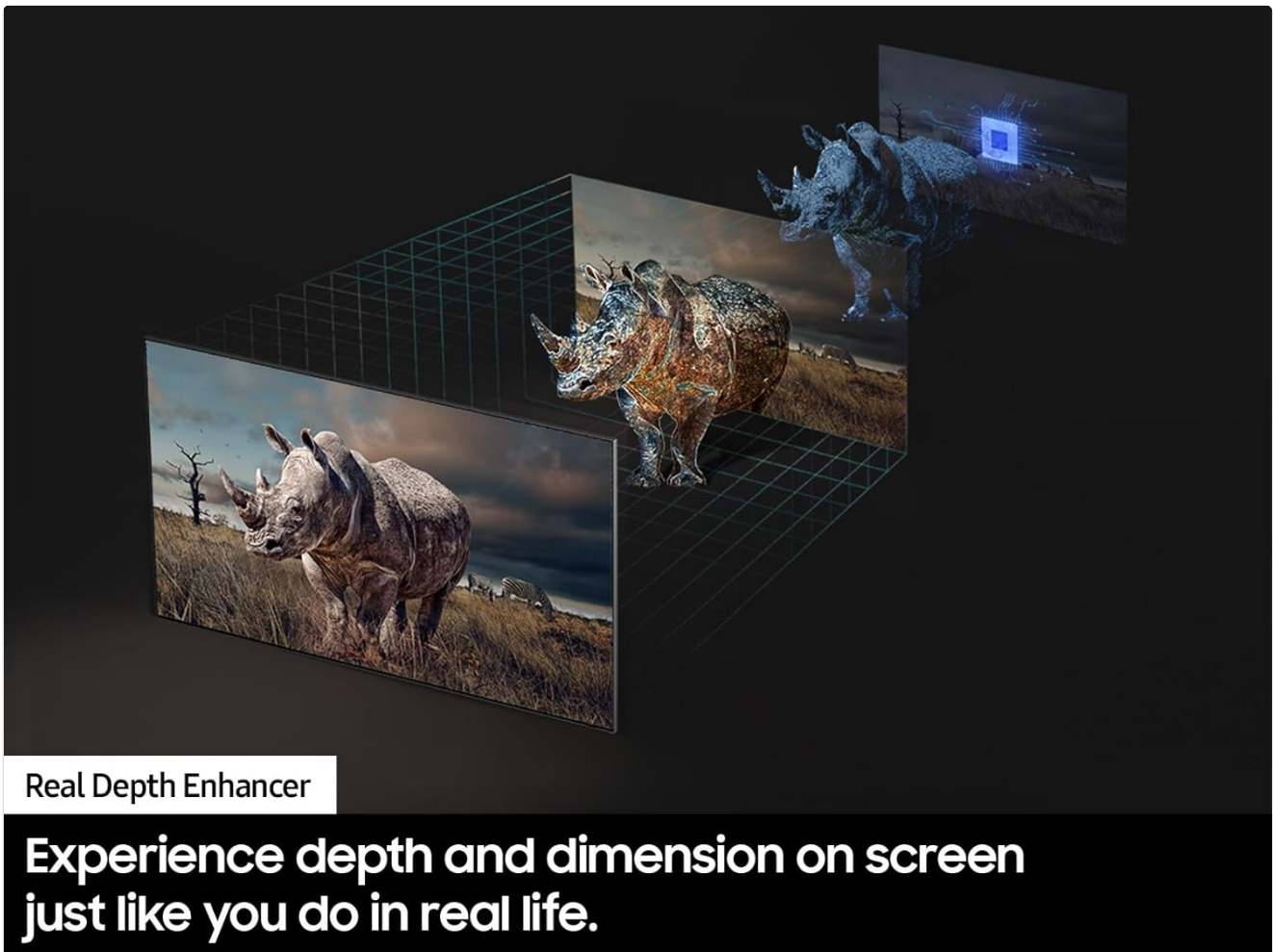


Figure 6: Enhanced Depth with Real Depth Enhancer. This visual representation shows how the Real Depth Enhancer feature adds a sense of three-dimensionality to images by intelligently adjusting contrast in the foreground.

### 4K AI Upscaling

Content is instantly transformed to incredibly sharp 4K resolution. Whether you're streaming an HD movie, watching live sports, or viewing home videos, the AI-powered processor upgrades everything to stunning 4K clarity.

### Dolby Atmos & Object Tracking Sound Lite

Immerse yourself in the action with built-in Dolby Atmos. You'll experience 3D surround sound that follows the movement on screen using virtual top channel audio, placing you right in the middle of the scene.

### Samsung Tizen OS

Stream your favorite shows, play games, and access a wide range of apps with the intuitive Smart TV Powered by Tizen. Discover your must-have apps and streaming services easily.

### Samsung Gaming Hub

The Samsung Gaming Hub is your central destination for gaming. Stream your favorite games directly from your TV without needing a console. Get recommendations for what to play next based on your preferences.

### Official Product Video: OLED S90D Features

Your browser does not support the video tag.

Video: This official Samsung video provides an overview of the key features of the OLED S90D TV, including its display technology, sound capabilities, and smart functionalities.

## MAINTENANCE

---

To ensure the longevity and optimal performance of your Samsung OLED TV, follow these maintenance guidelines:

- **Screen Cleaning:** Gently wipe the screen with a soft, dry microfiber cloth. For stubborn smudges, lightly dampen the cloth with distilled water or a screen-specific cleaning solution. Avoid harsh chemicals or abrasive materials.
- **Dusting:** Regularly dust the TV frame, stand, and rear vents with a soft, dry cloth to prevent dust buildup, which can affect performance and cooling.
- **Ventilation:** Ensure adequate airflow around the TV. Do not block the ventilation openings on the back or sides of the TV.
- **Power Care:** Unplug the TV from the power outlet during lightning storms or when it will be left unattended for long periods.

## TROUBLESHOOTING

---

This section addresses common issues you might encounter with your Samsung S90D Series TV. For more detailed troubleshooting, refer to the official User Manual PDF linked below.

- **TV Will Not Turn On:**
  - Ensure the power cable is securely plugged into both the TV and a working electrical outlet.
  - Try plugging another device into the same outlet to confirm it has power.
  - Press the power button directly on the TV. On the QN65S90DAFXZA model, the power button is typically located on the bottom right side of the TV, often a small joystick-like button or a single button near the indicator light.
  - If using the remote, ensure it is charged (SolarCell Remote) or has fresh batteries.
- **No Picture or Sound:**
  - Check that the correct input source is selected (e.g., HDMI 1, TV).
  - Verify that all cables connecting external devices (HDMI, optical) are securely connected.
  - Restart the TV by unplugging it from the power outlet for 30 seconds, then plugging it back in.
- **Remote Control Not Working:**
  - For SolarCell Remotes, expose the solar panel on the back to indoor light or sunlight for charging.
  - Ensure there are no obstructions between the remote and the TV's remote sensor.
  - Try re-pairing the remote with the TV if the issue persists (refer to the User Manual for specific pairing instructions).

## SPECIFICATIONS

---

Feature	Detail
Brand Name	Samsung
Model Number	QN65S90DAFXZA
Screen Size	65 Inches

Feature	Detail
Display Technology	OLED
Resolution	4K
Refresh Rate	120Hz (Up to 144Hz)
Product Dimensions (D x W x H)	10.4"D x 56.9"W x 35.3"H
Item Weight	49.6 Pounds
Output Wattage	70 Watts
Color Name	Graphite Black
Speaker Type	2.1CH
Connectivity Technology	Bluetooth, Wi-Fi
Special Features	NQ4 AI Gen2 Processor; HDR10+; Object Tracking Sound; Active Voice Amplifier Pro, OLED HDR Pro; Motion Xcelerator 144Hz; Ultra Viewing Angle; Real Depth Enhancer

## WARRANTY AND SUPPORT

---

Your Samsung S90D Series TV comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official Samsung support website.

For detailed instructions, advanced features, and comprehensive troubleshooting, please download the official User Manual (PDF): [Samsung S90D Series User Guide \(PDF\)](#)

If you require further assistance, please contact Samsung Customer Support through their official channels.