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## Samsung QN48S90DAEXZA

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# Samsung 48-Inch Class OLED 4K S90D Series Smart TV

## USER MANUAL

### 1. Introduction

This manual provides essential information for the setup, operation, and maintenance of your Samsung 48-Inch Class OLED 4K S90D Series Smart TV. Please read this manual thoroughly before using your TV to ensure proper and safe operation.

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The Samsung S90D Series TV features a detailed image, strong contrast, and clear motion. Increased depth and AI-powered 4K upscaling all work to bring clarity to your content.

### 2. What's in the Box

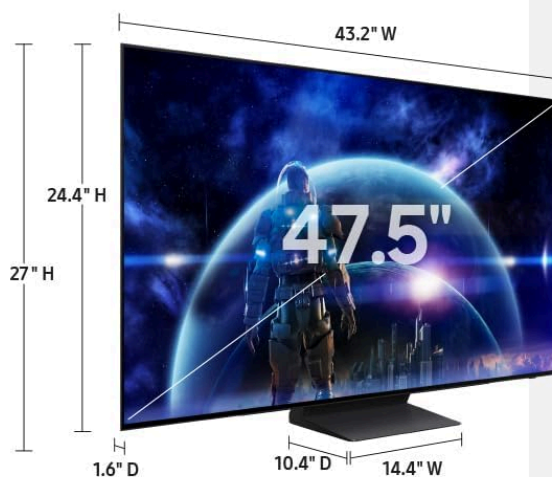
Upon unboxing, please verify that all components are present:

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- Samsung 48-Inch Class OLED 4K S90D Series Smart TV
- Power Cable
- User Manual (this document)
- Remote Control
- TV Stand Components (if not wall-mounted)

### Model: 48" S90D OLED



#### 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

#### What's in the box:

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



Features and specifications subject to change.

Image: Samsung 48-Inch S90D OLED TV with dimensions and included accessories like the remote control.

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## 3. Setup Guide

### 3.1. Physical Placement

Choose a stable, flat surface for your TV if using the included stand. Ensure adequate ventilation around the TV. If wall-mounting, use a compatible VESA mount (sold separately) and follow the mount manufacturer's instructions carefully. The TV features a sleek, thin design, making it suitable for various room aesthetics.

**SAMSUNG**

GLOBAL  
#1  
TV brand for  
18 years\*

# Why Samsung

Five reasons our TVs are awesome:

## Upscaling



Content at its best

Upscale every moment. Our AI-powered TVs make all the things you watch look sharper, sound clearer and feel more real.

## Endless Content



Samsung TV Plus<sup>2</sup> • Gaming Hub<sup>3</sup>

Stream hundreds of live channels, thousands of free movies and shows and thousands of top-tier games—no console required.

## Connectivity



SmartThings<sup>2</sup>

With your Samsung TV as the hub, SmartThings connects your smart home devices across brands.

## Planet and People



Sustainability • Accessibility

We value what you value—from packaging and energy-efficiency to accessibility features that help everyone enjoy the content they love.

## Security



Powered by Knox

Peace of mind while you watch—with security that protects your personal data across all connected devices at once.

\*Global No.1 Source - Omdia, Jan 2024. Results are not an endorsement of Samsung. Any reliance on these results is at the party's own risk. <sup>2</sup>Samsung Account required for network-based smart services, including streaming apps and other smart features. Separate [connected] computer, mobile or other device may be necessary to create/login to Samsung Account (free to download and create). Without Account login, only external device connections (e.g., via HDMI) and terrestrial/over-the-air TV (only for TVs with tuners) available. <sup>3</sup>High speed internet connection, additional gaming service subscriptions and compatible controller required.

Image: Side profile of the Samsung S90D OLED TV, highlighting its ultra-thin design.

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### 3.2. Connecting Devices

Your Samsung S90D TV is equipped with multiple ports for connecting external devices:

- **HDMI 2.1 Ports:** Connect gaming consoles, Blu-ray players, soundbars, and other HDMI-compatible devices. This model features 4 HDMI 2.1 ports, including one with eARC for enhanced audio return channel functionality.
- **USB Ports:** For connecting USB storage devices to play media or for firmware updates.
- **LAN Port:** For a wired internet connection.
- **Digital Audio Output (Optical):** For connecting to external audio systems.
- **Cable/Antenna Input:** For connecting an antenna or cable TV.

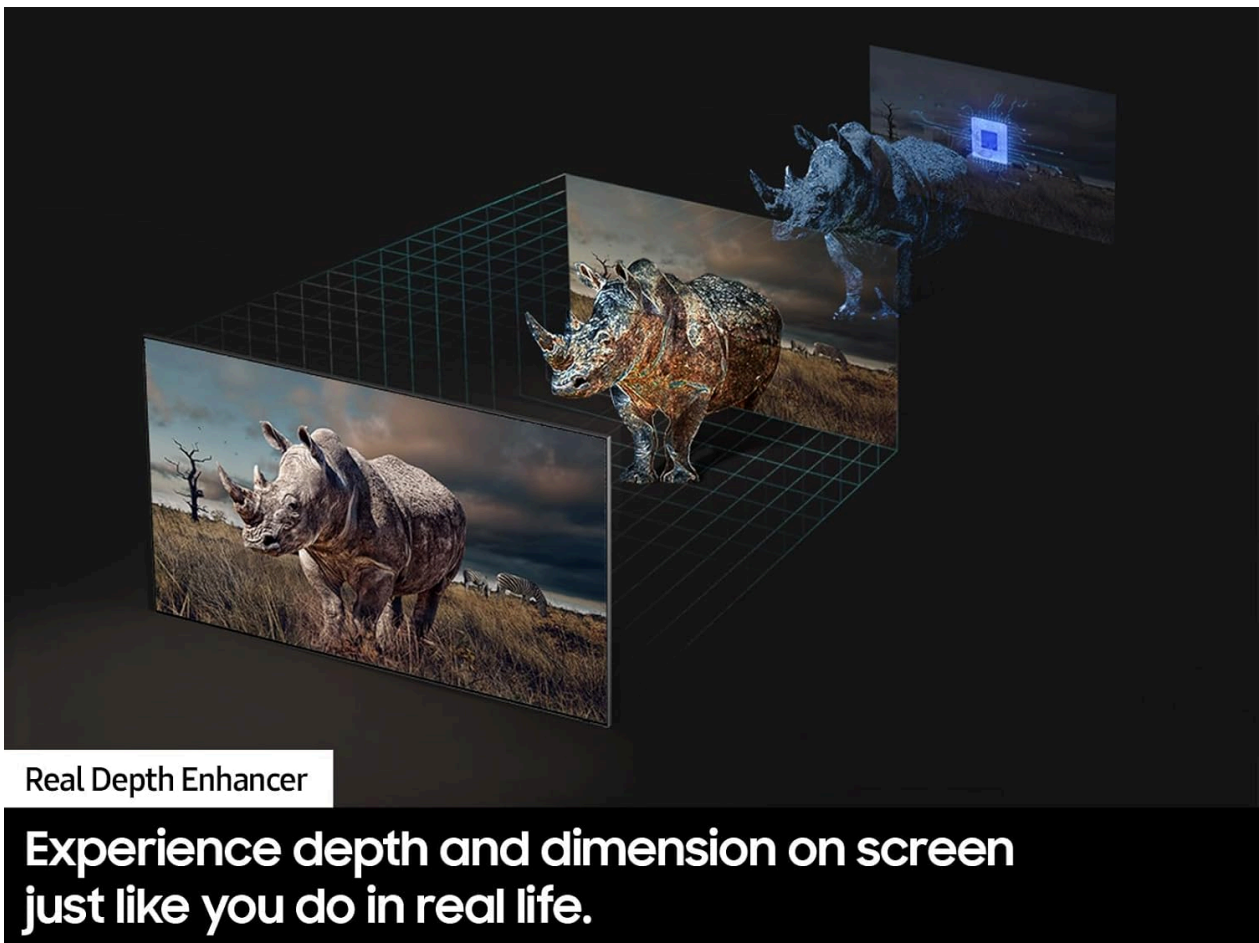


Image: Detailed view of the rear connection ports on the Samsung S90D OLED TV.

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### 3.3. Power Connection

Connect the provided power cable to the TV's power input and then to a wall outlet. The TV is designed for efficient power consumption.

## 4. Operating Your TV

### 4.1. Initial Setup and Smart Features

Upon first power-on, the TV will guide you through the initial setup process, including network connection (Wi-Fi or wired), channel scanning, and Samsung Account login. The Samsung Tizen OS provides access to a wide range of streaming apps and smart features.

Your TV features Alexa Built-in, allowing for hands-free control of your TV and compatible smart home devices. You can use voice commands to change channels, adjust volume, launch apps, and more.

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0:00 / 1:19



Video: Demonstrates the Alexa Built-in smart home features and voice control capabilities of the Samsung S90D TV.

### 4.2. Remote Control

The included remote control is designed for ease of use and features solar charging, eliminating the need for disposable batteries. It includes dedicated buttons for popular streaming services like Netflix, Disney+, and Prime Video.



Image: The sleek Samsung remote control, highlighting its solar charging capability.

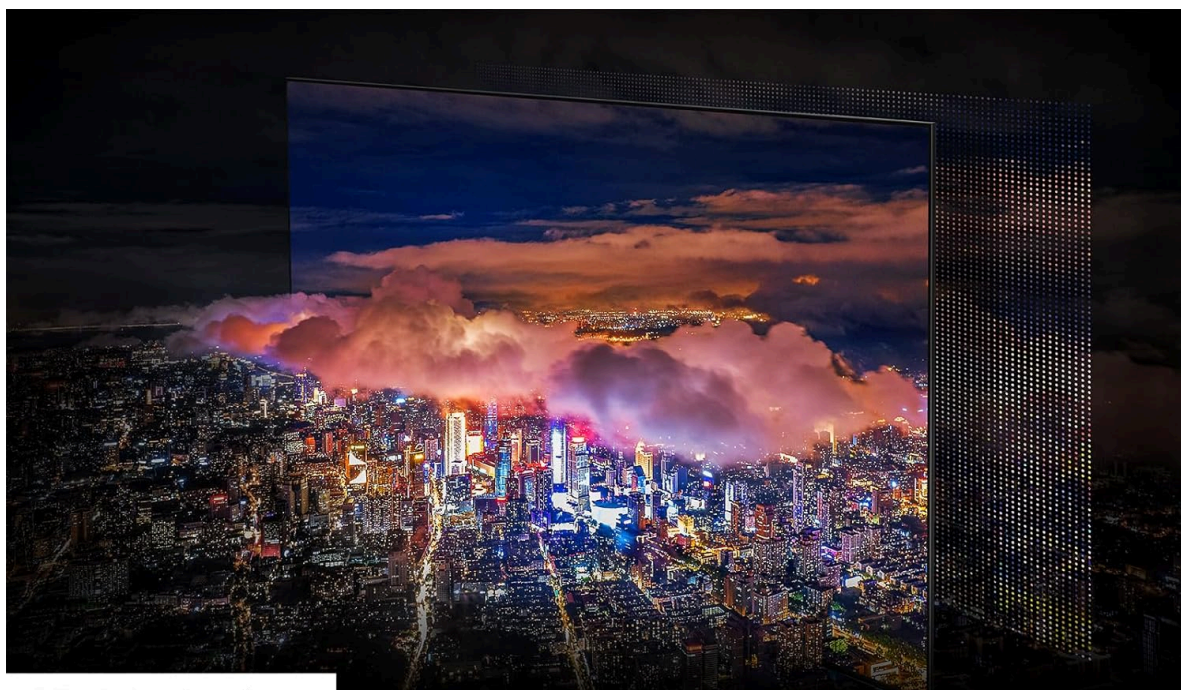
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4.3. Picture Quality Features

Experience stunning visuals with the following technologies:

- **OLED Technology:** Delivers pure blacks, bright whites, and Pantone-validated color for a dramatic and detailed view.

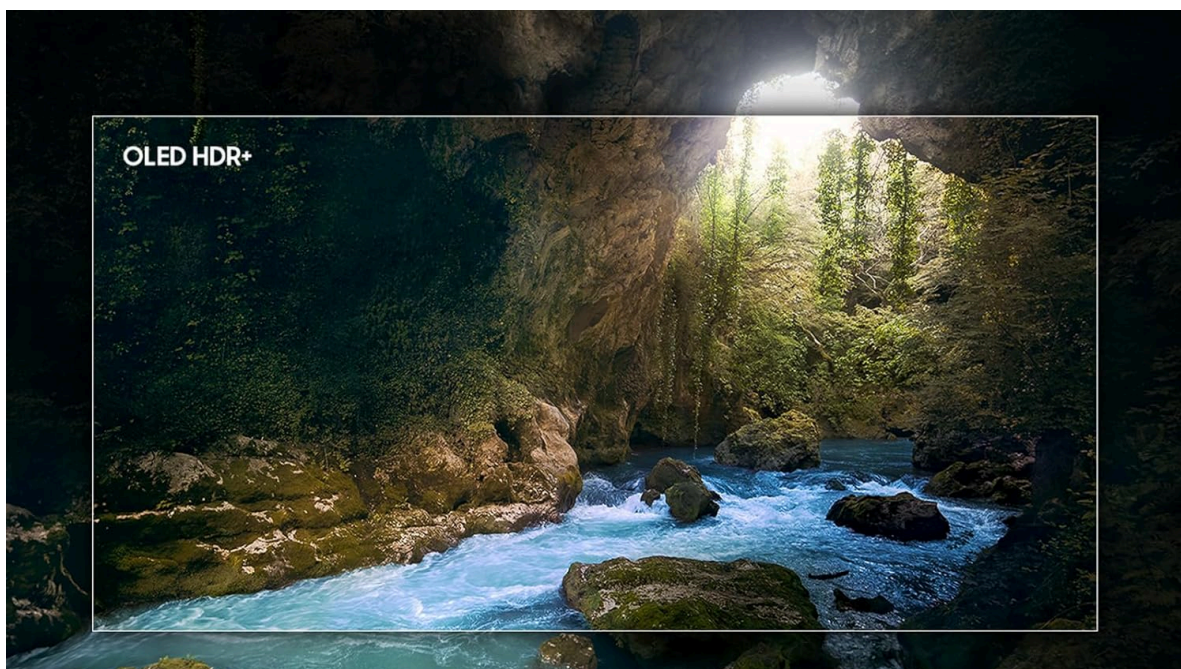


### OLED Technology

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

Image: A vibrant space scene on the Samsung OLED TV, showcasing deep blacks and rich colors.

- **OLED HDR+:** Provides powerful brightness and rich contrast by analyzing each scene to boost brightness and improve image clarity.



### OLED HDR+

**Enjoy powerful brightness and rich  
contrast.\***

\*S90D 48" and 42" have OLED HDR.

Image: A bright and contrasting river scene displayed on the Samsung OLED TV.

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- **4K AI Upscaling:** Content is instantly transformed to incredibly sharp 4K resolution using AI-based formulas, enhancing clarity for all content types.





Image: A runner in a detailed landscape, demonstrating the 4K AI Upscaling feature.

- **Real Depth Enhancer:** Mirrors how the human eye processes depth by increasing foreground contrast, making scenes appear more three-dimensional.

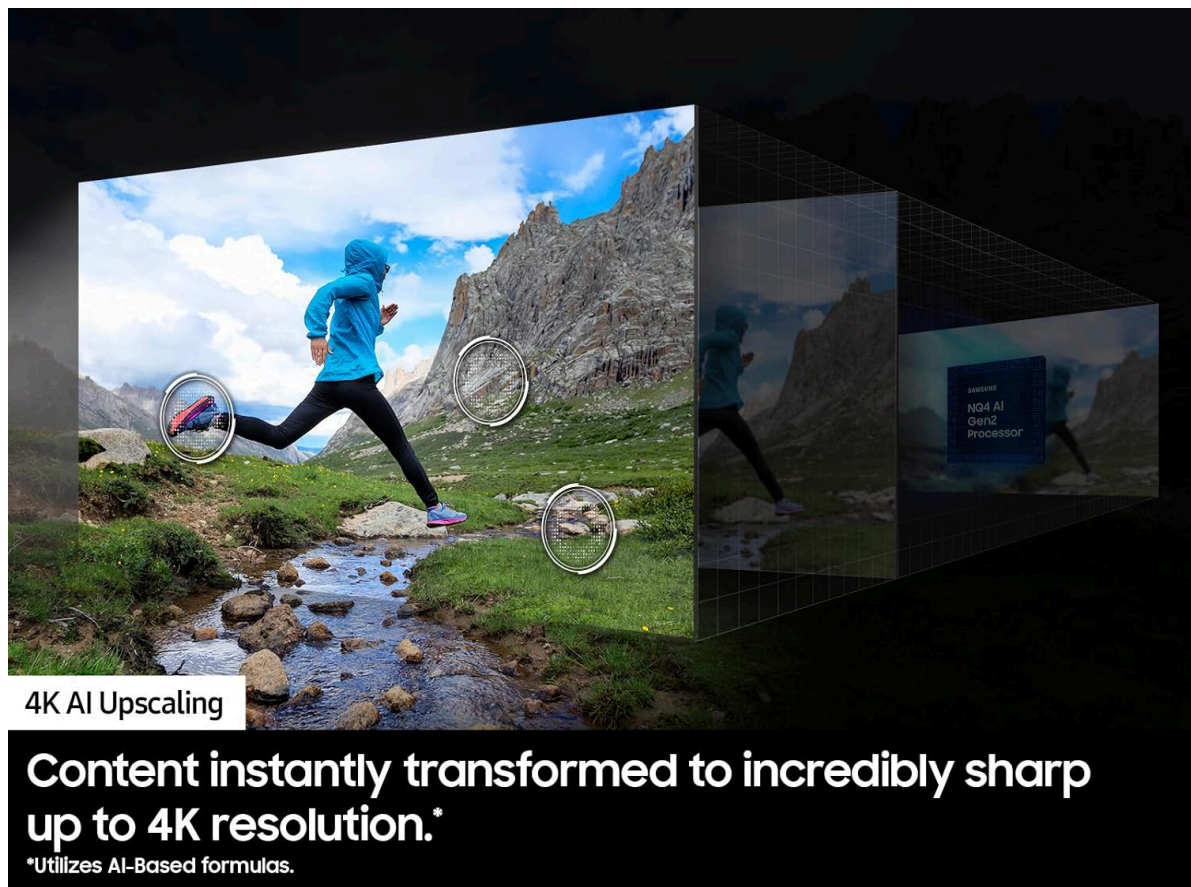


Image: Layered images of a rhino illustrating the Real Depth Enhancer's ability to add depth.

- **Motion Xcelerator 144Hz:** Ensures ultra-smooth motion and virtually no lag or blur, ideal for fast-paced content and gaming.



Image: A dynamic racing scene on the Samsung OLED TV, showcasing smooth motion provided by Motion Xcelerator 144Hz.

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#### 4.4. Audio Features

The TV integrates Dolby Atmos and Object Tracking Sound Lite to provide immersive 3D surround sound that follows the movement on screen using virtual top channel audio.

#### 4.5. Samsung Gaming Hub

The Samsung Gaming Hub brings together your favorite games directly on your TV, often without the need for a console. It provides recommendations based on your preferences.

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0:00 / 4:51

Video: A comprehensive product overview of the Samsung S90D TV, detailing its features and capabilities.

## 5. Maintenance

To ensure the longevity and optimal performance of your Samsung S90D TV, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the screen with a soft, dry microfiber cloth. For stubborn smudges, lightly dampen the cloth with water or a screen-specific cleaning solution. Avoid harsh chemicals or abrasive materials.
- **Ventilation:** Ensure the TV's ventilation openings are not blocked. Maintain adequate space around the TV for proper airflow to prevent overheating.
- **Software Updates:** Regularly check for and install software updates to ensure your TV has the latest features, performance enhancements, and security patches. This can typically be done through the TV's settings menu.

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## 6. Troubleshooting

If you encounter issues with your TV, refer to the following common troubleshooting tips:

- **No Power:**
  - Check if the power cable is securely connected to both the TV and the wall outlet.
  - Verify that the wall outlet is functioning by plugging in another device.
- **No Picture/Sound:**
  - Ensure the correct input source is selected (e.g., HDMI 1, TV).

- Check all cable connections between the TV and external devices.
- Restart the TV by unplugging it from the power outlet for a few minutes, then plugging it back in.

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• **Remote Control Not Working:**

- Ensure the remote is charged (expose the solar panel to light).
- Point the remote directly at the TV's remote sensor.
- If issues persist, try resetting the remote or pairing it again according to the TV's on-screen instructions.

• **Network Connection Issues:**

- Restart your router and modem.
- Check the Wi-Fi password if connecting wirelessly.
- If using a wired connection, ensure the Ethernet cable is properly connected.

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7. Specifications

| Feature            | Detail                                           |
|--------------------|--------------------------------------------------|
| Brand              | Samsung                                          |
| Model Number       | QN48S90DAEXZA                                    |
| Screen Size        | 48 Inches                                        |
| Display Technology | OLED                                             |
| Resolution         | 4K                                               |
| Refresh Rate       | Up to 144 Hz                                     |
| Processor          | NQ4 AI Gen2 Processor                            |
| Audio              | Dolby Atmos & Object Tracking Sound Lite (2.1CH) |

|                    |                                             |
|--------------------|---------------------------------------------|
| Connectivity       | Bluetooth, Wi-Fi, 4 HDMI 2.1 ports (1 eARC) |
| Dimensions (WxDxH) | 43.2" x 10.4" x 27" (with stand)            |
| Item Weight        | 26.2 Pounds                                 |
| Color              | Graphite Black                              |

## 8. Warranty and Support

Your Samsung S90D Series TV is covered by a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions. For technical support, service, or additional information, please visit the official Samsung support website or contact their customer service hotline.

For the latest information and support, please visit: [Samsung Support](#)

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Model: QN48S90D

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Related Documents - QN48S90DAEXZA

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|    | <p><a href="#">Samsung S90D OLED TV Digital Launch Toolkit</a></p> <p>Comprehensive digital launch toolkit for the Samsung S90D OLED TV, detailing product headlines, feature copy, image carousel information, specifications, compatible accessories, and keywords for marketing and SEO.</p>                                                                                                           |
|    | <p><a href="#">Samsung S85D OLED 4K TV: Key Features and Specifications</a></p> <p>Explore the Samsung S85D OLED 4K TV, highlighting its OLED technology, 4K AI Upscaling, Dolby Atmos, and various smart features. Details on screen sizes, dimensions, and included accessories are provided.</p>                                                                                                       |
|    | <p><a href="#">Samsung Smart TV User Guide: Setup, Features, and Troubleshooting</a></p> <p>A comprehensive user guide for Samsung Smart TVs, detailing setup, connections, smart features, picture and sound settings, troubleshooting, and accessibility options to enhance your viewing experience.</p>                                                                                                |
|  | <p><a href="#">Samsung QLED 4K Q6F Series Smart TV (2025 Model) - Technical Specifications and Features</a></p> <p>Explore the features and specifications of the Samsung QLED 4K Q6F Series Smart TV (2025 Model). This document details its Q4 Processor Lite, Quantum HDR, Motion Xcelerator, Color Booster, 4K Upscaling, and smart TV capabilities, including Alexa and SmartThings integration.</p> |
|  | <p><a href="#">Samsung OLED TV S90D/S93D Series: Unpacking and Installation Guide</a></p> <p>A comprehensive guide to unpacking and installing your Samsung OLED TV, including stand assembly, cable connections, and VESA mounting information for S90D and S93D models.</p>                                                                                                                             |
|  | <p><a href="#">Samsung S90D Series OLED TV: Unpacking and Installation Guide</a></p> <p>Comprehensive guide for unpacking and installing your Samsung S90D Series OLED TV, including setup steps, component identification, and technical specifications.</p>                                                                                                                                             |

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Details

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