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Samsung QN48S90HA

Samsung QN48S90HA 48-inch OLED TV and HW-Q990H Soundbar System User Manual

Model: QN48S90HA (TV), HW-Q990H (Soundbar)

1. Introduction

This manual provides essential information for setting up, operating, and maintaining your Samsung QN48S90HA 48-inch OLED 4K UHD Smart TV and the Samsung HW-Q990H 11.1.4 Ch Q-Series Soundbar System. Please read this manual thoroughly before using your products to ensure safe and optimal performance.



Image 1.1: Samsung QN48S90HA 48-inch OLED TV, showcasing its sleek design and 'Glare Free' feature.

2. What's in the Box

Carefully unpack all items and ensure you have received the following components:

- Samsung QN48S90HA 48-inch OLED TV
- TV Stand
- SolarCell Remote Control (TM2660H)
- TV Power Cable
- User Manual (this document)
- Samsung HW-Q990H Soundbar
- Wireless Subwoofer
- 2x Wireless Rear Speakers
- Soundbar Remote Control
- Soundbar Power Cables
- Amber Protection HDTV Screen Cleaner Kit (6.8oz/200ml spray and microfiber cloth)



Image 2.1: Visual representation of TV dimensions and the main accessories included with the television.



Image 2.2: All components of the Samsung HW-Q990H Soundbar system, including the soundbar, subwoofer, two rear speakers, and remote control.

3. Setup

3.1 TV Setup

1. **Placement:** Place the TV on a stable, level surface or mount it on a wall using a compatible VESA mount (300 x 200 mm). Ensure adequate ventilation around the TV.
2. **Connect Power:** Plug the TV power cable into the TV's power input and then into a wall outlet.
3. **Initial Setup:** Turn on the TV. Follow the on-screen instructions to select your language, connect to your Wi-Fi network, and set up smart features.
4. **External Devices:** Connect your external devices (e.g., gaming consoles, Blu-ray players) to the TV's HDMI ports. The TV features 4 HDMI ports, 3 USB ports, Ethernet, and Optical audio output.

3.2 Soundbar System Setup

1. **Placement:**
    - **Soundbar:** Place the soundbar directly in front of your TV, centered.
    - **Subwoofer:** Place the wireless subwoofer on the floor, preferably in the front of the room, near the TV.
    - **Rear Speakers:** Position the two wireless rear speakers behind your main listening area, one on each side.
2. **Connect Power:** Plug the power cables for the soundbar, subwoofer, and rear speakers into their respective power inputs and then into wall outlets.
3. **Connect to TV:** For optimal audio quality, connect the soundbar to your TV using an HDMI cable (HDMI ARC/eARC port on both devices). Alternatively, use an optical cable.
4. **Pairing:** The subwoofer and rear speakers should automatically pair with the soundbar when powered on. If not, refer to the soundbar's specific instructions for manual pairing.
5. **SpaceFit Sound Pro:** The soundbar system features SpaceFit Sound Pro, which uses embedded sensors to automatically analyze your room's acoustics and calibrate audio and bass performance for your specific space. This process occurs automatically after setup.



Image 3.1: An example of a living room setup featuring the Samsung OLED TV and the complete soundbar system, including rear speakers.

4. Operating

4.1 TV Operation

- **Remote Control:** Use the included SolarCell Remote Control to navigate menus, adjust volume, change channels, and access smart features. The remote can be charged via solar power or USB-C.
- **Smart TV (Tizen OS):** Access a wide range of streaming services (Netflix, Disney+, Hulu, Max, Apple TV) and apps through the intuitive Tizen operating system.
- **Picture Quality:**
  - **OLED HDR with Glare Free:** Experience deep contrast and vibrant colors with reduced reflections.
  - **NQ4 AI Gen3 Processor:** This advanced processor uses 128 neural networks to enhance picture and sound quality, upscaling content to 4K.

- **4K AI Upscaling Pro:** Automatically enhances lower-resolution content to near-4K quality.
- **AI Motion Enhancer Pro:** Reduces blur and flickering in fast-moving scenes for smoother viewing.

- **Special Features:** Utilize Game Mode for optimized gaming performance, Eye Comfort Mode to reduce eye strain, and built-in browser functionality.



Image 4.1: A close-up view of the NQ4 AI Gen3 Processor, highlighting its role in delivering enhanced 4K picture and dynamic sound.



Image 4.2: An image illustrating the clarity and detail provided by 4K AI Upscaling Pro, showing a child with a dog.

4.2 Soundbar System Operation

- **True 11.1.4 Ch Full Surround:** The system delivers immersive sound from 11 front/surround channels, 1 subwoofer channel, and 4 up-firing channels.
- **Volume Control:** Adjust the overall volume using the soundbar remote or your TV remote (if HDMI ARC/eARC is used).
- **Sound Modes:** Select various sound modes (e.g., Standard, Surround, Game Pro, Adaptive Sound) to optimize audio for different content types.
- **Q-Symphony:** When connected to a compatible Samsung TV, Q-Symphony allows the TV's speakers and the soundbar's speakers to operate simultaneously for a richer, more enveloping sound experience.



Image 4.3: A visual representation of the True 11.1.4 Ch Full Surround sound experience, showing sound waves emanating from various speakers in a room.

5. Maintenance

5.1 Screen Cleaning (Amber Protection HDTV Screen Cleaner)

To clean your TV screen and other electronic displays:

1. Ensure the TV is turned off and cool.
2. Lightly spray the Amber Protection screen cleaning solution onto the included microfiber cloth (do not spray directly onto the screen).
3. Gently wipe the screen in one direction, then buff with a dry part of the cloth until clean and streak-free.
4. This non-ammonia and alcohol-free solution is safe for OLED screens and effectively removes dust, dirt, and fingerprints without dripping.



Image 5.1: The Amber Protection Screen Clean kit, including the spray bottle and microfiber cloth.

5.2 General Care

- Dust the TV and soundbar system regularly with a soft, dry cloth.
- Avoid placing liquids near the devices.
- Do not block ventilation openings.

6. Troubleshooting

If you encounter issues, try the following solutions:

- **No Power:** Check if power cables are securely connected to the device and the wall outlet. Try a different outlet.
- **No Picture (TV):** Ensure the correct input source is selected. Check HDMI cable connections.
- **No Sound (TV/Soundbar):** Check volume levels on both TV and soundbar. Ensure soundbar is selected as the audio output on the TV. Verify audio cable connections (HDMI ARC/eARC or Optical).
- **Remote Not Working:** Ensure there are no obstructions between the remote and the device. For SolarCell remote, ensure it is charged.
- **Network Connection Issues:** Restart your Wi-Fi router. Reconnect the TV to the Wi-Fi network through the settings menu.
- **Subwoofer/Rear Speakers Not Connecting:** Ensure they are powered on. Refer to the soundbar manual for manual pairing instructions.

For more detailed troubleshooting, refer to the on-screen e-Manual on your TV or visit the Samsung support website.

7. Specifications

7.1 Samsung QN48S90HA 48-inch OLED TV

Feature	Specification
Screen Size	48 inches
Display Technology	OLED
Resolution	4K UHD (3840 x 2160)
Processor	NQ4 AI Gen3 Processor
Refresh Rate	165Hz (Motion Xcelerator 165Hz)
HDR Format Supported	HDR10+
Operating System	Tizen
Connectivity	4x HDMI, 3x USB, Ethernet, Optical, Bluetooth 5.3, Wi-Fi
VESA Mount Standard	300 x 200 mm
Dimensions (WxDxH) with Stand	42.1" x 10.4" x 27"
Weight with Stand	26.2 pounds
Model Name	QN48S90HAEXZA

7.2 Samsung HW-Q990H Soundbar System

Feature	Specification
Channels	11.1.4 Ch Full Surround
Integrated Surround Sound	Dolby Atmos, Q-Symphony
Special Features	SpaceFit Sound Pro

8. Warranty and Support

Your Samsung QN48S90HA TV and HW-Q990H Soundbar System are covered by a**1-Year Manufacturer's Limited Warranty**. Please retain your proof of purchase for warranty claims.
For technical support, service inquiries, or to download the latest manuals and software updates, please visit the official Samsung support website:
https://www.samsung.com/us/support/

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