

Samsung HW-QS90H

Samsung HW-QS90H Q-Series Soundbar Instruction Manual

Model: HW-QS90H

1. PRODUCT OVERVIEW

The Samsung HW-QS90H Q-Series Soundbar is an all-in-one audio solution designed to deliver powerful, room-filling sound. It features 13 built-in speakers, including four woofers for deep bass, providing a 7.1.2 channel audio experience. This soundbar supports Dolby Atmos 3D sound and offers versatile placement options, automatically optimizing audio whether mounted on a wall or placed on a table. It integrates seamlessly with compatible Samsung TVs through Q-Symphony and offers advanced sound calibration features like SpaceFit Sound Pro and AI Dynamic Bass Control.



Figure 1.1: Samsung HW-QS90H Soundbar and included remote control.

2. SETUP INSTRUCTIONS

2.1 Unpacking and Components

Carefully remove all components from the packaging. Ensure all items listed below are present:

- Soundbar (HW-QS90H)
- Remote Controller with Batteries
- HDMI Cable
- Wall Mount Kit
- Rubber Feet
- Power Cable



Figure 2.1: Soundbar dimensions and included accessories.

2.2 Soundbar Placement

The HW-QS90H Soundbar offers flexible placement options. It can be placed flat on a table or mounted flush against a wall. The built-in sensor detects the soundbar's position and automatically optimizes the audio for the best Dolby Atmos experience.

- **Table Placement:** Place the soundbar on a stable, flat surface directly below your television.
- **Wall Mounting:** Use the provided wall mount kit to securely attach the soundbar to the wall. Ensure the wall can support the weight of the soundbar. Refer to the separate wall mount guide for detailed instructions.

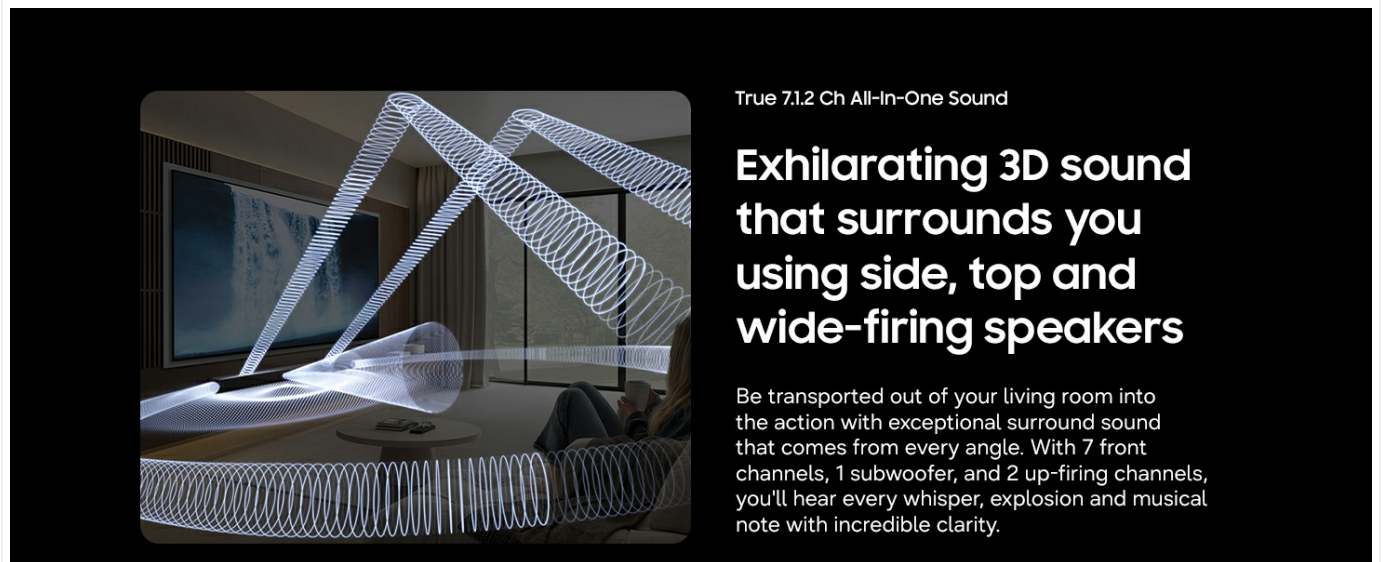


Figure 2.2: Convertible fit for versatile soundbar placement.

2.3 Connecting the Soundbar

Connect the soundbar to your television and power source using the following steps:

1. **Power Connection:** Connect the power cable to the soundbar's 'Power Source' port and then to a wall outlet.
2. **HDMI to TV (eARC/ARC):** For optimal audio quality, connect one end of the provided HDMI cable to the soundbar's 'HDMI to TV (eARC/ARC)' port and the other end to the HDMI eARC/ARC port on your television.
3. **Digital Audio In (Optical):** Alternatively, or if your TV does not support HDMI ARC/eARC, connect an optical cable (not included) from your TV's optical output to the soundbar's 'Digital Audio In (Optical)' port.

4. **External Devices (HDMI):** If you have external devices like a game console or streaming device, you can connect them directly to the soundbar's 'HDMI' input port, then connect the soundbar to the TV via the 'HDMI to TV (eARC/ARC)' port.
5. **Service Port:** The 'Service' USB port is for firmware updates only. Insert a USB drive with the update file when instructed.

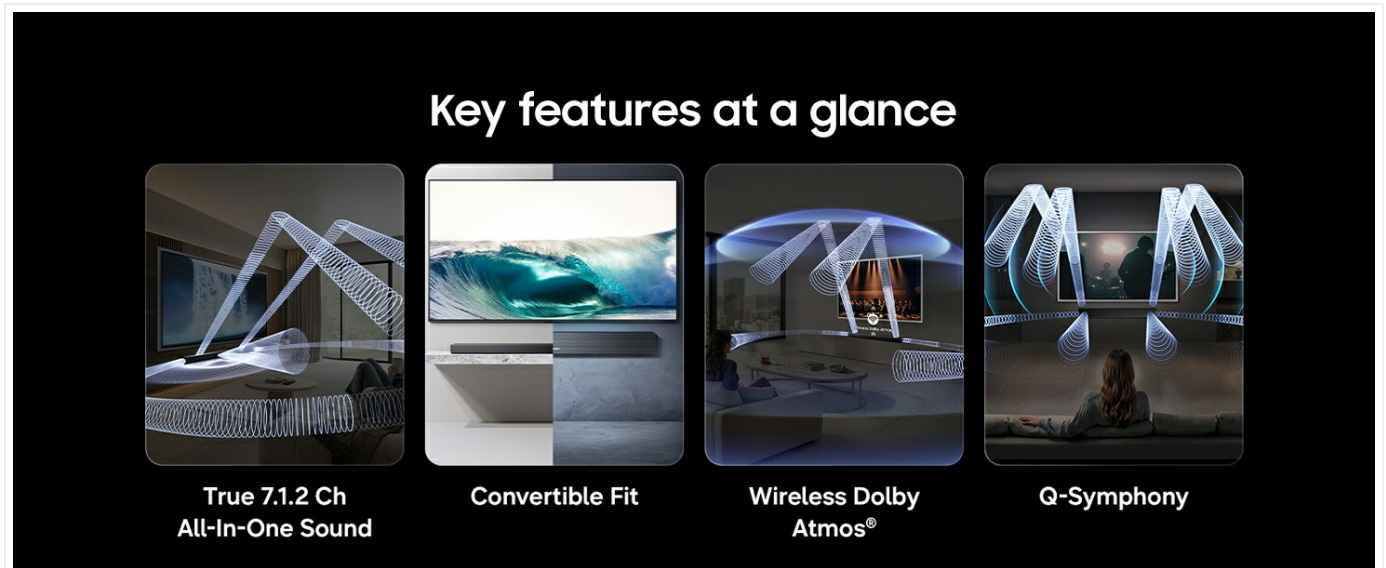


Figure 2.3: Rear panel connections for the soundbar.

2.4 Wireless TV Connection

For a clutter-free setup, the soundbar can connect wirelessly to compatible Samsung TVs via Wi-Fi or Bluetooth. Refer to your TV's settings for pairing instructions.

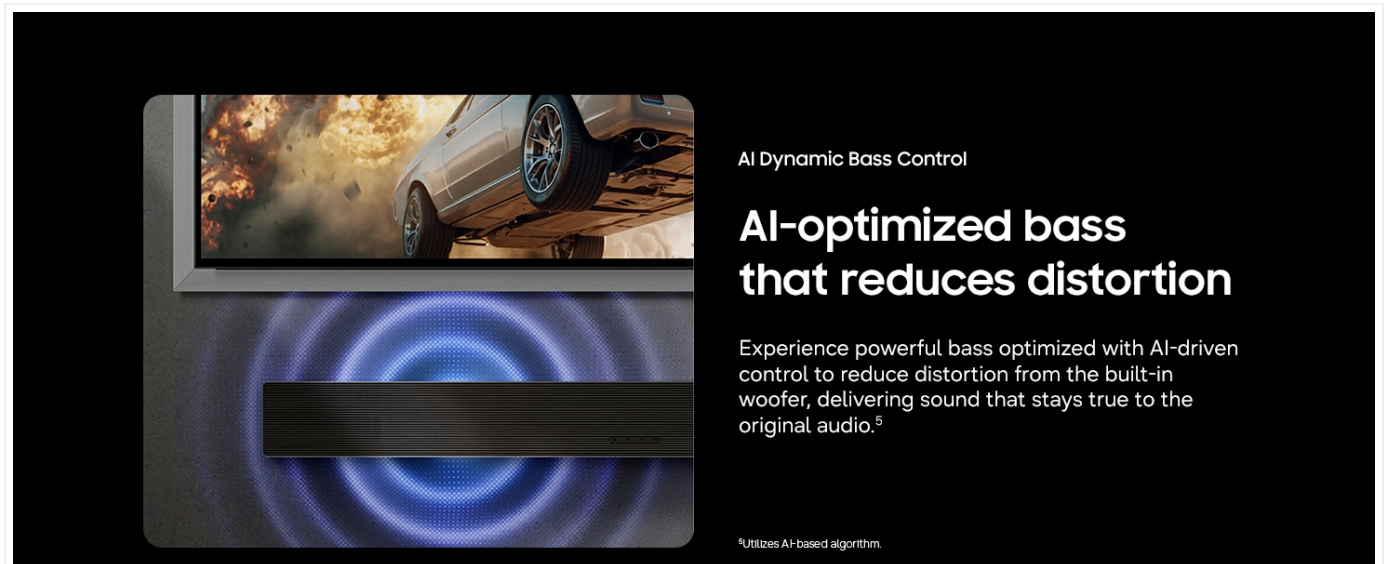


Figure 2.4: Wireless TV connection setup.

3. OPERATING INSTRUCTIONS

3.1 Basic Operation

- **Power On/Off:** Press the power button on the remote control or the soundbar.
- **Volume Control:** Use the Volume Up/Down buttons on the remote control.
- **Source Selection:** Press the Source button on the remote to cycle through input sources (HDMI, Optical, Bluetooth,



Wireless TV Connection

Say goodbye to cluttered cables

Wirelessly connects to your TV via Wi-Fi or Bluetooth in just a few simple steps — audio and video sync perfectly for a fully immersive viewing experience.⁶

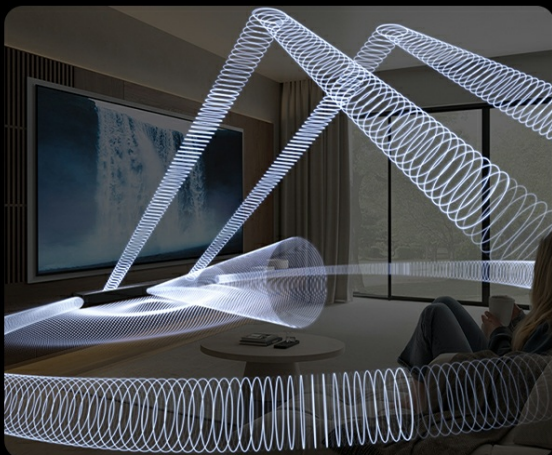
⁶Requires a Bluetooth-compatible TV or a Wi-Fi connection.

Figure 3.1: Control the soundbar with a single Samsung TV remote.

3.2 Sound Modes and Features

The HW-QS90H offers various sound modes and features to enhance your listening experience:

- **Wireless Dolby Atmos:** Experience immersive 3D sound with or without an HDMI cable. This feature delivers sound above and around you, similar to a cinema experience.
- **Q-Symphony:** When paired with a compatible Samsung TV, Q-Symphony allows the TV speakers and soundbar to operate simultaneously, creating a richer and more detailed soundstage. This feature can also integrate with up to five Samsung audio devices.
- **SpaceFit Sound Pro:** This technology uses built-in sensors to analyze your room's acoustics and automatically calibrates the soundbar's audio output, including bass levels, for optimal clarity and immersion.
- **AI Dynamic Bass Control:** Experience powerful bass optimized with AI-driven control to reduce distortion from the built-in woofers, ensuring sound fidelity.
- **Sound Elevation:** This feature lifts the sound to better align with the picture on your screen, creating a more cohesive audio-visual experience.
- **Game Mode Pro:** Automatically optimizes sound for gaming, providing dynamic 3D audio with up-firing speakers and impactful bass to help you pinpoint in-game audio cues.



True 7.1.2 Ch All-In-One Sound

Exhilarating 3D sound that surrounds you using side, top and wide-firing speakers

Be transported out of your living room into the action with exceptional surround sound that comes from every angle. With 7 front channels, 1 subwoofer, and 2 up-firing channels, you'll hear every whisper, explosion and musical note with incredible clarity.

Figure 3.2: Wireless Dolby Atmos for immersive 3D sound.



Convertible Fit

Versatile setup, exceptional sound

Choose the soundbar setup that suits you — whether mounted on the wall or placed flat on a table — without compromising audio quality. The built-in sensor detects the position of the soundbar and automatically optimizes the audio, ensuring you enjoy Dolby Atmos sound in any setup.

Figure 3.3: Q-Symphony synchronizes TV and soundbar speakers.

Sound Elevation

Lifted sound that brings picture and audio together

Say goodbye to sound that feels disconnected from the screen. Audio can feel like it comes from below the picture rather than where you're watching. To solve this, sound is lifted so audio no longer feels separated from what you see, helping optimize the overall audio experience.



Figure 3.4: SpaceFit Sound Pro calibrates sound to your environment.

Game Mode Pro

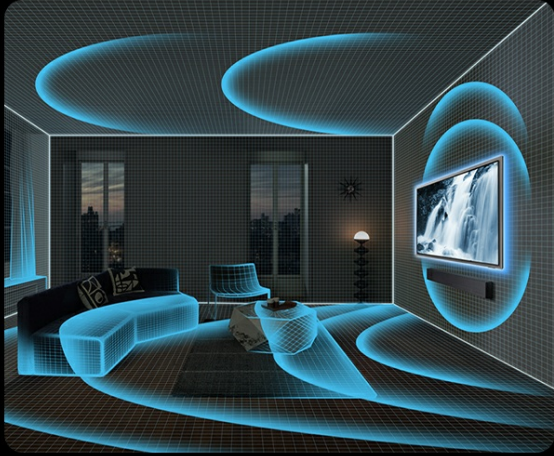
Dynamic, 3D sound automatically optimized for gaming

Stay ahead of the game with auto-optimized 3D sound, powered by up-firing speakers and deep, impactful bass. React faster with 3D audio that lets you pinpoint footsteps, sirens, and other critical sound cues for a tactical edge.⁷

⁷Compatible with Gaming Hub and select gaming consoles (e.g., Xbox X, PS5). Gaming Hub requires a compatible TV, high-speed internet and gaming subscriptions.



Figure 3.5: AI Dynamic Bass Control for optimized bass.

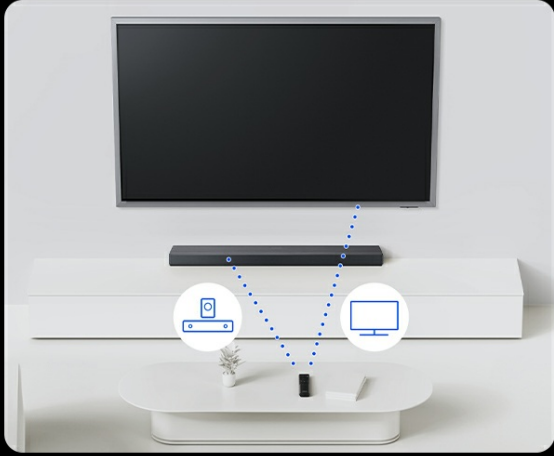


SpaceFit Sound Pro

Sound calibrated perfectly for your space using the soundbar mic

Enjoy stunning sound automatically calibrated to your room using sensors embedded into the soundbar. It analyzes your space and adjusts the audio - even optimizing bass - for clear sound and immersion.

Figure 3.6: Sound Elevation feature for aligned audio and picture.



One Remote Control

One remote. Total control

Use your Samsung TV remote to control key soundbar functions, including power, volume and sound effects with a single remote.

Figure 3.7: Game Mode Pro for dynamic 3D gaming sound.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your soundbar.

- **Cleaning:** Gently wipe the soundbar's surface with a soft, dry cloth. Do not use liquid cleaners or abrasive materials, as they may damage the finish.
- **Ventilation:** Ensure the soundbar's vents are not obstructed to prevent overheating.
- **Firmware Updates:** Periodically check the Samsung support website for available firmware updates to ensure your soundbar has the latest features and performance enhancements. Updates are typically performed via USB.

5. TROUBLESHOOTING

If you encounter issues with your soundbar, refer to the following common solutions:

Problem	Possible Solution
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Problem	Possible Solution
No sound from the soundbar.	Ensure the soundbar is powered on. Check all cable connections (HDMI, Optical). Verify the correct input source is selected on the soundbar. Increase the volume on both the soundbar and the TV. Check TV audio output settings to ensure sound is directed to the soundbar.
Bluetooth connection issues.	Ensure the soundbar is in Bluetooth pairing mode. Disable and re-enable Bluetooth on your device. Move your device closer to the soundbar. Remove the soundbar from your device's paired list and re-pair.
Remote control not working.	Replace the batteries in the remote control. Ensure there are no obstructions between the remote and the soundbar. Point the remote directly at the soundbar's receiver.
Sound is distorted or unclear.	Check the audio source for quality issues. Adjust sound modes or EQ settings. Ensure the soundbar is placed correctly and not obstructed. Perform a SpaceFit Sound Pro calibration if available.

6. SPECIFICATIONS

Feature	Detail
Brand	Samsung
Model Number	HW-QS90H/ZA
Model Name	Q-Series
Speaker Maximum Output Power	330 watts
Connectivity Technology	Bluetooth, HDMI, Wi-Fi
Audio Output Mode	Dolby Atmos
Mounting Type	Wall Mount
Speaker Type	Soundbar
Additional Features	Dolby Enabled
Color	Graphite Black
Control Method	Remote
Specific Uses For Product	Home Theatre

Feature	Detail
Number of Audio Channels	7.1.2
Item Dimensions (D x W x H)	4.92"D x 49.02"W x 2.71"H
Item Weight	14.8 pounds
Compatible Devices	Television
UPC	198957301865

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This Samsung HW-QS90H Soundbar comes with a **1 Year Manufacturer Limited Warranty**. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty card included in your product packaging or visit the official Samsung support website.

7.2 Customer Support

For further assistance, technical support, or service inquiries, please visit the official Samsung support website or contact Samsung customer service directly. You can find more information and resources at the [Samsung Store on Amazon](#) or the main Samsung website.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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