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› Hualingan MMI 3G 8.8-inch Touch Screen Upgrade for Audi A4/S4/RS4 B8 8K User Manual

Hualingan HLA-8870-1

Hualingan MMI 3G 8.8-inch Touch Screen Upgrade for Audi A4/S4/RS4 B8 8K User Manual

Model: HLA-8870-1

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Hualingan MMI 3G 8.8-inch Touch Screen Upgrade. This system is designed to enhance the infotainment experience in compatible Audi A4, S4, and RS4 B8 8K models by integrating modern features like wireless Apple CarPlay, Android Auto, and an Android 13 operating system.

Please read this manual thoroughly before installation and use to ensure proper functionality and to avoid damage to the unit or your vehicle.

2. COMPATIBILITY

This unit is compatible with specific Audi A4, S4, and RS4 B8 8K models manufactured between 2009 and 2018. It is designed for vehicles equipped with the Audi Multimedia (MMI 3G) system, including MMI 3G Low (BNav), MMI 3G High (HNav), and MMI 3G Plus (HN+ or HN+R) with a 7-inch display without a touch screen.

Important Compatibility Notes:

- The system uses AUX/AMI for sound output. Verify if your car has an AUX or AMI port. If only an AMI port is present, an AMI to AUX adapter will be required.
- Compatibility varies based on the vehicle's original head unit configuration. Refer to the images below to identify your vehicle's system.



For Audi A4 S4 RS4 B8 8K MMI 3G High (2008-2009)
Without AUX Or AMI,Add MOST Adapter.HL8870-1



For Audi A4 S4 RS4 B8 8K MMI 3G High (2008-2009)
Without AUX Or AMI,Add MOST Adapter.HL8870-1



Audi multimedia



Audi cd changer



The plastic material beside the emergency light is black



Audi chorus



Audi symphony



Product display

Image: Visual guide for identifying compatible Audi MMI 3G High systems (2008-2009) with AUX or AMI.



Image: Detailed visual guide for distinguishing between Audi Multimedia, Audi CD Changer, and Audi Symphony/Chorus systems to ensure correct unit selection.

If you are uncertain about your vehicle's compatibility, please consult a professional installer or contact Hualingan support with a photo of your vehicle's dashboard and radio system.

3. PRODUCT FEATURES

The Hualingan 8.8-inch Touch Screen Upgrade offers a range of advanced features:

- **Display:** 8.8-inch high-resolution touchscreen.
- **Operating System:** Built-in Android 13 system with Qualcomm Snapdragon 665 (SM6125) 8-Core CPU, 4GB RAM, and 64GB/128GB/256GB internal storage (optional).
- **Connectivity:**
 - Wireless Apple CarPlay and Android Auto.
 - Built-in Wi-Fi for internet access.

- Bluetooth 5.0 for hands-free calling and music streaming.
- Two USB 2.0 ports.

- **Multimedia:**

- Support for various audio and video formats (H.264, HEVC, VP9, MP4, AAC, MP3, WMA, WAV, OGG, AAC, FLAC, APE).
- Built-in AM/FM tuner with RDS support (DAB+ tuner optional, Sirius/XM radio not supported).
- Access to Google Play Store for downloading apps (Netflix, YouTube TV, Spotify, Amazon Prime Video, Waze, Google Maps, etc.).

- **Integration:**

- Seamless switch between Android 13 system and original Audi MMI system.
- Retains all original factory functions and supports OEM buttons/controller.
- Supports vehicle backup cameras and front-facing cameras (CVBS: NTSC/PAL or AHD: 720P/1080P).
- External microphone (3.5mm) included.

- **User Interface:**

- Split Screen mode for running two applications simultaneously.
- Multi-language support: English, Spanish, French, Portuguese, German, Simplified Chinese.



Image: The Hualing 8.8-inch touch screen installed in an Audi dashboard, displaying the Apple CarPlay interface.



Android Machine



Power Cable



GPS Antenna



4G Antenna



Two USB Cable

Image: A visual comparison highlighting the upgrade from the original Audi screen to the new Hualingan 8.8-inch touch screen with enhanced features.

4. WHAT'S IN THE BOX

The package for the HLA-8870-1 includes the following components:

- 8.8-inch Touch Screen Head Unit (Android Machine)
- Power Cable
- GPS Antenna
- 4G Antenna
- Two USB Cables
- Accessory Bag (contains various connectors and small parts for installation)



Image: All components included in the Hualingan 8.8-inch Touch Screen Upgrade kit, laid out for identification.

5. SETUP AND INSTALLATION NOTES

Installation of this unit requires technical expertise. It is highly recommended that installation be performed by a qualified professional to ensure correct wiring and functionality, and to prevent damage to your vehicle's electrical system or the product.

Before Installation:

- Verify vehicle compatibility as detailed in Section 2.
- Ensure the vehicle's battery is disconnected to prevent electrical shorts.
- Familiarize yourself with your vehicle's dashboard disassembly procedures.

Key Installation Considerations:

- The unit connects via LVDS interface-USB.
- Sound output relies on the vehicle's AUX/AMI port. If your vehicle has an AMI port but no AUX, an AMI to AUX adapter is necessary for audio functionality.
- The system integrates with the factory system and supports OEM buttons/controller. Ensure all factory connections are properly re-established.
- For vehicles manufactured between 2008 and 2012, there are four specific installation models. Ensure you have the correct HLA-8870 variant for your central control unit. This unit is specifically HLA-8870-1 for Audi Multimedia (MMI 3G Low/Basic /MMI 3G High/ MMI 3G+).

Aftermarket Cameras: If you plan to use an aftermarket or 360-degree camera, these typically need to be purchased and installed separately.

6. OPERATING INSTRUCTIONS

The Hualingan 8.8-inch Touch Screen operates similarly to a modern smartphone or tablet, offering intuitive touch controls and integration with your vehicle's existing MMI system.

6.1 Switching Between Systems

The unit allows seamless switching between the Android 13 system and your original Audi MMI system. Typically, a dedicated button or a long press on an OEM button will facilitate this transition. Refer to the specific wiring diagram and installation guide for your vehicle model for exact instructions.

6.2 Wireless Apple CarPlay and Android Auto

To use Wireless CarPlay or Android Auto:

1. Ensure Bluetooth and Wi-Fi are enabled on your smartphone.
2. On the Hualing unit, navigate to the CarPlay or Android Auto application.
3. Follow the on-screen prompts to pair your phone via Bluetooth. Once paired, the system will automatically establish a Wi-Fi connection for wireless CarPlay/Android Auto.
4. Your phone's interface will then be mirrored on the 8.8-inch screen, allowing access to navigation, music, calls, and other compatible apps.



Image: Demonstrates full-screen display of Apple CarPlay and Android Auto, along with AirPlay and Autolink mirroring functionalities.

6.3 Android 13 System and Apps

The built-in Android 13 system provides access to a wide range of applications:

- **App Installation:** Use the pre-installed Google Play Store or other compatible app stores to download and install applications directly onto the unit.
- **Navigation:** Utilize apps like Waze, Google Maps, or other GPS navigation applications for real-time traffic and routing.

- **Entertainment:** Stream content from Netflix, Spotify, Amazon Prime Video, YouTube TV, and more.
- **Communication:** Access social media apps or use Bluetooth for hands-free calling.



Image: A dynamic representation of various Android applications, including navigation, music, and social media, available on the Hualingan touch screen.

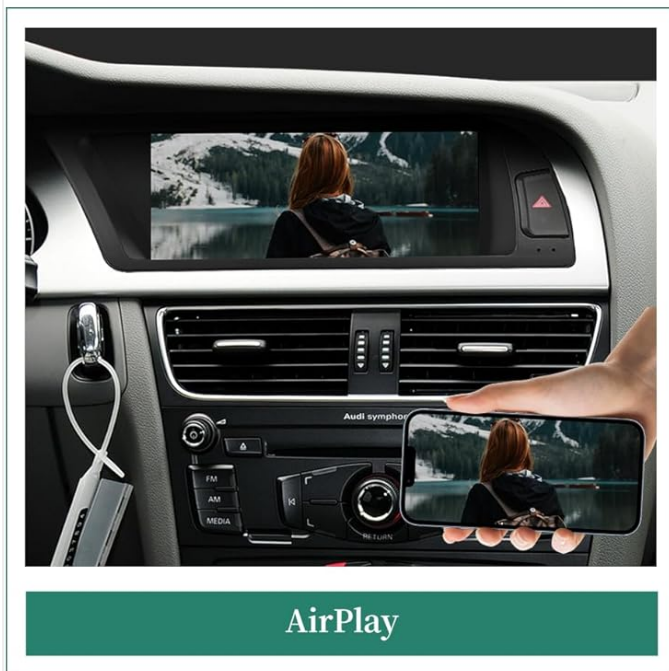


Image: Examples of multimedia functionalities such as video playback, gaming, network TV, online navigation, and music streaming on the Hualingan unit.

6.4 Split Screen Mode

To activate Split Screen mode, typically long-press the recent apps button or drag an app to one side of the screen. This allows you to run two applications side-by-side, for example, navigation on one side and music on the other.

6.5 USB Playback

Connect a USB drive to one of the two USB 2.0 ports to play audio or video files directly from the storage device. The unit supports a wide range of media formats.

7. MAINTENANCE

The Hualingan 8.8-inch Touch Screen is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, lint-free cloth to gently wipe the screen. For stubborn smudges, slightly dampen the cloth with

water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.

- **Software Updates:** Periodically check for software updates through the unit's settings menu to ensure optimal performance and access to the latest features.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods when the vehicle is parked.

8. TROUBLESHOOTING

If you encounter issues with your Hualingan unit, consider the following troubleshooting steps:

- **No Power/Screen Blank:**
 - Check all power connections to ensure they are securely seated.
 - Verify the vehicle's fuse for the infotainment system.
- **No Audio:**
 - Ensure the AUX/AMI connection is correctly made and selected as the audio source on your original Audi MMI system.
 - If using an AMI port, confirm the AMI to AUX adapter is properly installed and functional.
 - Check volume levels on both the Hualingan unit and the Audi MMI system.
- **CarPlay/Android Auto Not Connecting:**
 - Ensure Bluetooth and Wi-Fi are active on your smartphone.
 - Forget the device from your phone's Bluetooth settings and re-pair.
 - Restart both your smartphone and the Hualingan unit.
- **Touch Screen Unresponsive:**
 - Perform a soft reset of the unit (refer to installation guide for specific reset procedures, usually a button combination).
 - Ensure the screen is clean and free from debris.
- **Original MMI Functions Not Working:**
 - Verify all factory wiring connections are correctly re-established.
 - Ensure the system is correctly switched back to the original MMI interface.

If these steps do not resolve the issue, please contact Hualingan customer support for further assistance.

9. SPECIFICATIONS

Model Number	HLA-8870-1
Display Size	8.8 Inches
Operating System	Android 13
Processor	Qualcomm Snapdragon 665 (SM6125) 8-Core CPU
RAM	4GB
Internal Storage	64GB / 128GB / 256GB (Optional)
Connectivity	Wi-Fi, Bluetooth 5.0, Wireless CarPlay, Wireless Android Auto
USB Ports	2 x USB 2.0
Audio Output Mode	Stereo (via vehicle's AUX/AMI)
Supported Cameras	CVBS (NTSC/PAL), AHD (720P/1080P)
Product Dimensions	11 x 2 x 4.8 inches
Item Weight	7.7 pounds

10. WARRANTY AND SUPPORT

This Hualingan product comes with a **15-month warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use.

For technical support, warranty claims, or any questions regarding the installation or operation of your unit, please contact Hualingan customer service. Refer to your purchase documentation or the Hualingan website for contact information. Please have your model number (HLA-8870-1) and proof of purchase ready when contacting support.

