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KS-H920Q

User Manual: 12.3-inch Android Screen Upgrade GPS Navigation System

For Mercedes-Benz A, CLA, GLA (2012-2014) with NTG4.5 System

1. Introduction

This manual provides detailed instructions for the installation, operation, and troubleshooting of your new 12.3-inch Android Screen Upgrade GPS Navigation System. This system is designed to enhance your Mercedes-Benz driving experience by integrating modern Android functionalities while retaining your vehicle's original features.



Image 1.1: Comparison of the dashboard before and after the screen upgrade.

2. Compatibility

This Android screen upgrade is specifically designed for the following Mercedes-Benz models equipped with the **NTG4.5 system**:

- Mercedes-Benz A-Class W176 (2012-2015)
- Mercedes-Benz GLA-Class X156 (2012-2014)
- Mercedes-Benz CLA-Class C117 X117 (2012-2014)

Important: This unit is NOT compatible with NTG5.0 systems. Please verify your car's NTG version through your original radio menu before installation.



Image 2.1: Visual guide for identifying compatible NTG4.5 systems.

3. Package Contents

Please ensure all the following items are included in your package:

- 1x 12.3-inch Android Screen Display
- 1x Main Wiring Harness
- 1x LVDS Cable
- 1x AMI Cable
- 1x GPS Antenna
- 2x 4G Antennas
- 1x Installation Guidance (refer to this manual and online resources)

4. Setup and Installation

The installation process is designed to be non-destructive, retaining your vehicle's original radio features, knob control, Bluetooth, OEM rear camera, radar, and steering wheel controls.

4.1. Pre-Installation Notes

- Disconnect the car battery before starting any electrical work.
- Refer to online installation videos for your specific Mercedes-Benz model. Search for "Koason GLA" on YouTube for relevant guides.
- For Mercedes A-Class, a bracket mount may not be required; the screen installs directly.

4.2. Wiring Diagram

Carefully follow the wiring diagram provided to connect the Android screen to your vehicle's existing system. Ensure all connections are secure.



Image 4.1: Wiring diagram for connecting the Android screen.

4.3. Fiber Optic Cable Relocation (If Applicable)

Some Mercedes-Benz models are equipped with fiber optic amplifiers. If your car has fiber optics, you may need to relocate them from the OEM harness to the Android harness to ensure proper audio and control functionality.

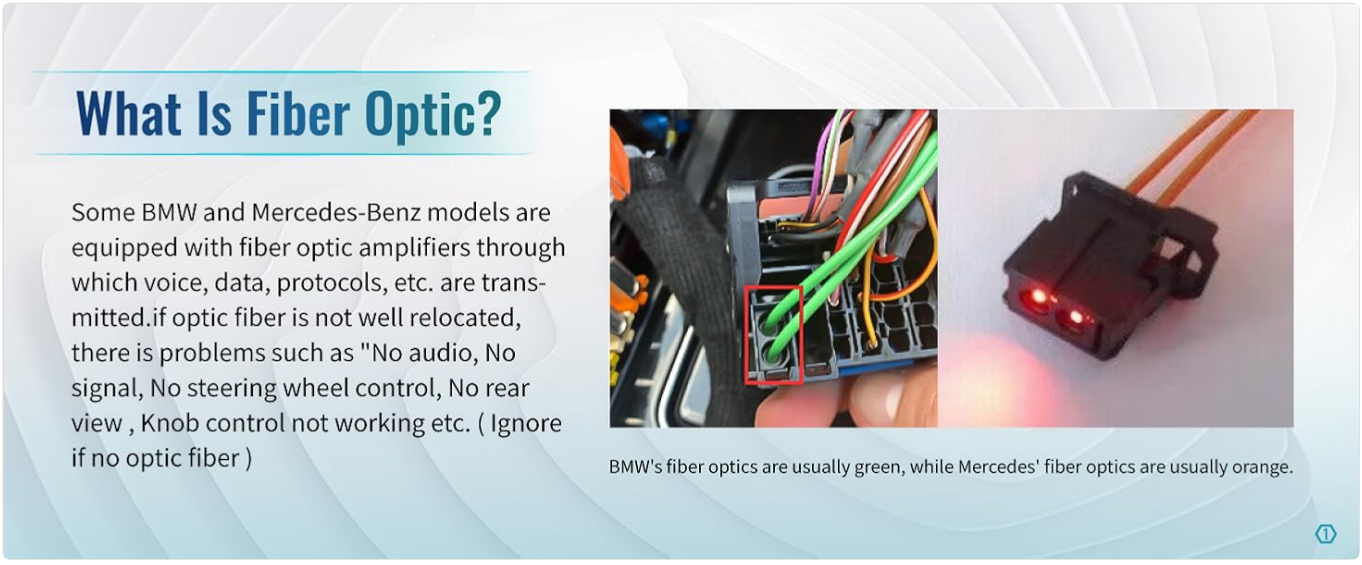


Image 4.2: Understanding fiber optic connections.

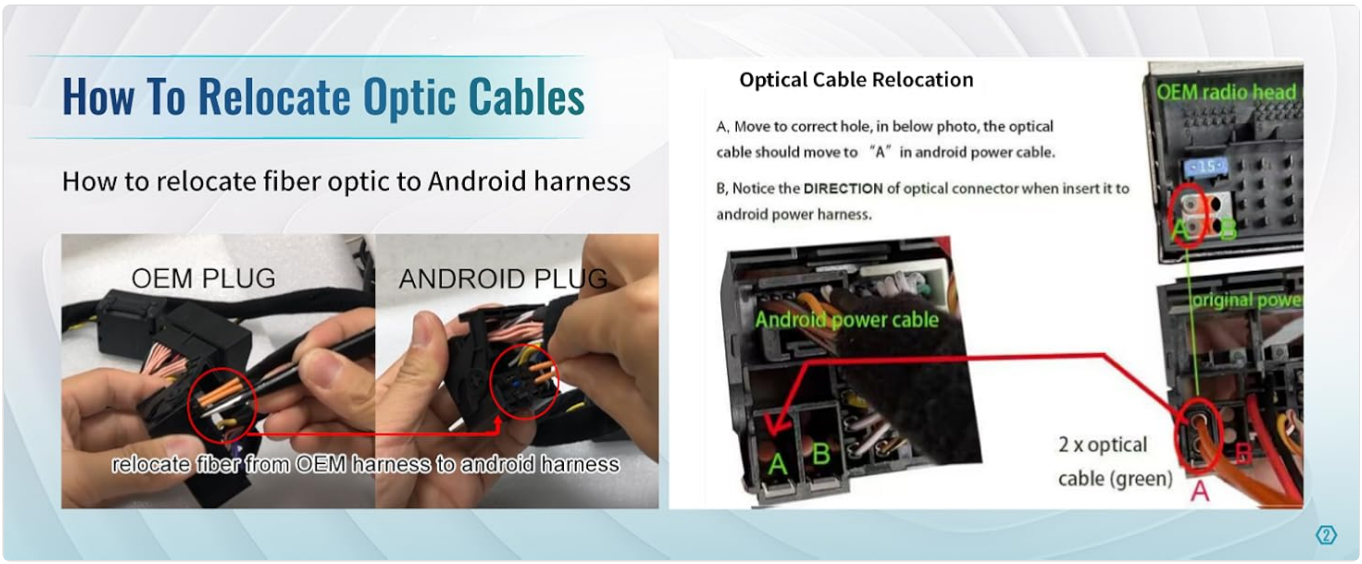


Image 4.3: Instructions for relocating fiber optic cables.

5. Operating Instructions

5.1. System Overview

Your new display runs on Android 13, powered by a Qualcomm Snapdragon 665 Octa-core 2GHz CPU, with 8GB RAM and 128GB ROM. The 12.3-inch LG HD IPS LCD offers a 1920x720 resolution with a G+G capacitive touchscreen.

5.2. Dual System Switching

The unit allows seamless switching between the Android system and your original OEM radio system, ensuring all original car functions remain accessible.



Image 5.1: Dual system switching functionality.

5.3. CarPlay and Android Auto

The system supports both wireless and wired Apple CarPlay and Android Auto, allowing you to integrate your smartphone for navigation, music, calls, and more.



Image 5.2: CarPlay and Android Auto integration.

5.4. GPS Navigation

Utilize pre-installed offline maps or connect to online navigation apps like Google Maps, Sygic, and Waze via Wi-Fi or 4G LTE for real-time traffic and routing.



Image 5.3: GPS Navigation in action.

5.5. Connectivity

The unit features built-in Wi-Fi for internet access and supports 4G LTE for network connection (requires a SIM card, not included).

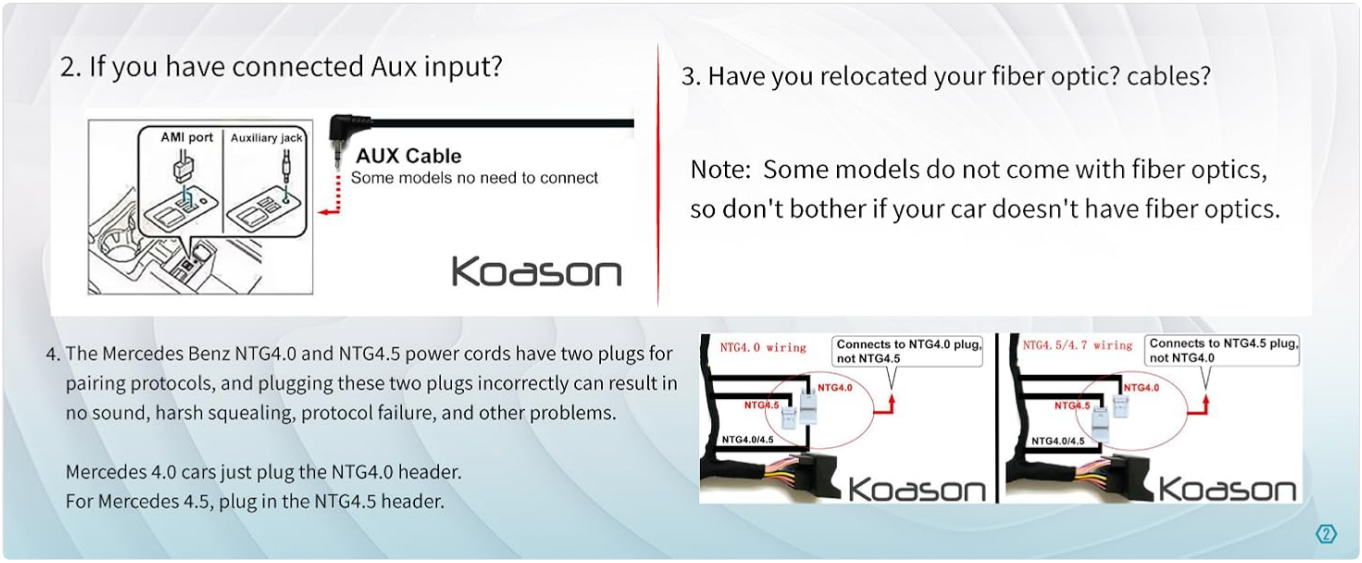


Image 5.4: Built-in Wi-Fi and 4G LTE module.

5.6. Split Screen Display

Multitask efficiently with the split-screen feature, allowing you to run two applications simultaneously, such as navigation and music playback.



Image 5.5: Split screen functionality.

5.7. Parking Assistance

The system supports your OEM parking system, rear-view camera, and factory 360-degree camera, enhancing parking safety and convenience.

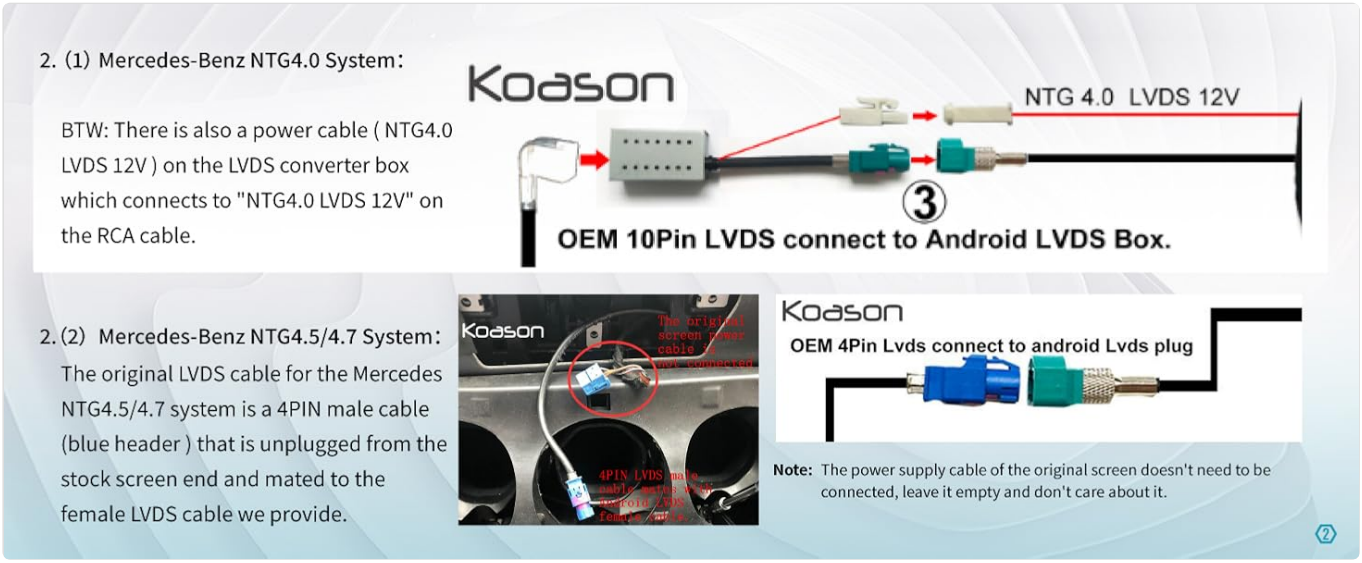


Image 5.6: Parking assistance features.

5.8. User Interface (UI)

Customize your experience with multiple UI styles and color themes available within the Android system settings.

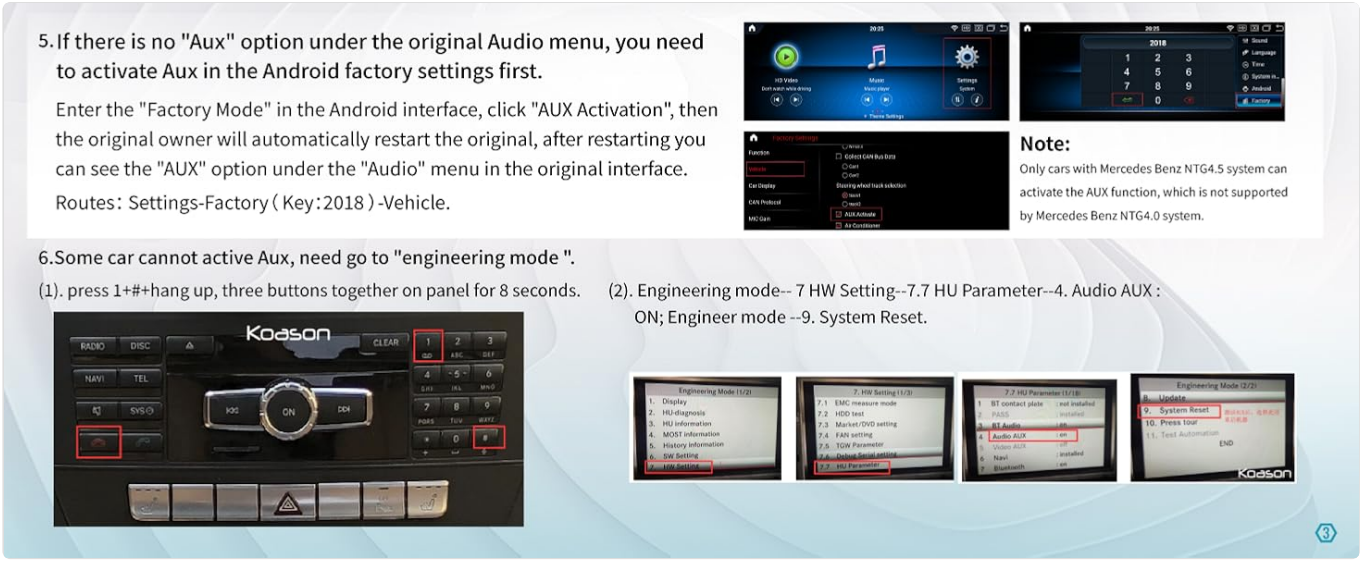


Image 5.7: Multiple UI styles to choose from.

6. Maintenance

To ensure optimal performance and longevity of your Android screen, follow these simple maintenance guidelines:

- **Screen Cleaning:** Use a soft, lint-free cloth, slightly dampened with water or a screen-safe cleaner, to gently wipe the display. Avoid abrasive materials or harsh chemicals.
- **Software Updates:** Periodically check for system updates within the Android settings to ensure you have the latest features and security patches.
- **Avoid Extreme Temperatures:** Do not expose the unit to prolonged direct sunlight or extreme cold, as this can affect performance and screen life.

7. Troubleshooting

7.1. No Signal Problem (NTG4.0/4.5/4.7 System)

If your Mercedes-Benz system displays "no signal" after installation, perform the following checks:

1. **Original CD Host Functionality:** Ensure your original car CD host works correctly. Press the "RADIO" or "DISC" button; if you hear sound, it's working. If not, check the power button and ensure the line behind the CD host is properly plugged in.
2. **Fiber Optic Check:** If your car has optical fiber, ensure it is correctly jumped to the Android harness (refer to Section 4.3).
3. **LVDS Cable Connection:**
    - **NTG4.0 System:** The 10-PIN LVDS cable from the stock screen connects to the provided LVDS converter box, which then connects to the Android screen's 4-PIN LVDS.
    - **NTG4.5/4.7 System:** The original 4-PIN male LVDS cable (blue header) from the stock screen connects directly to the female LVDS cable provided.

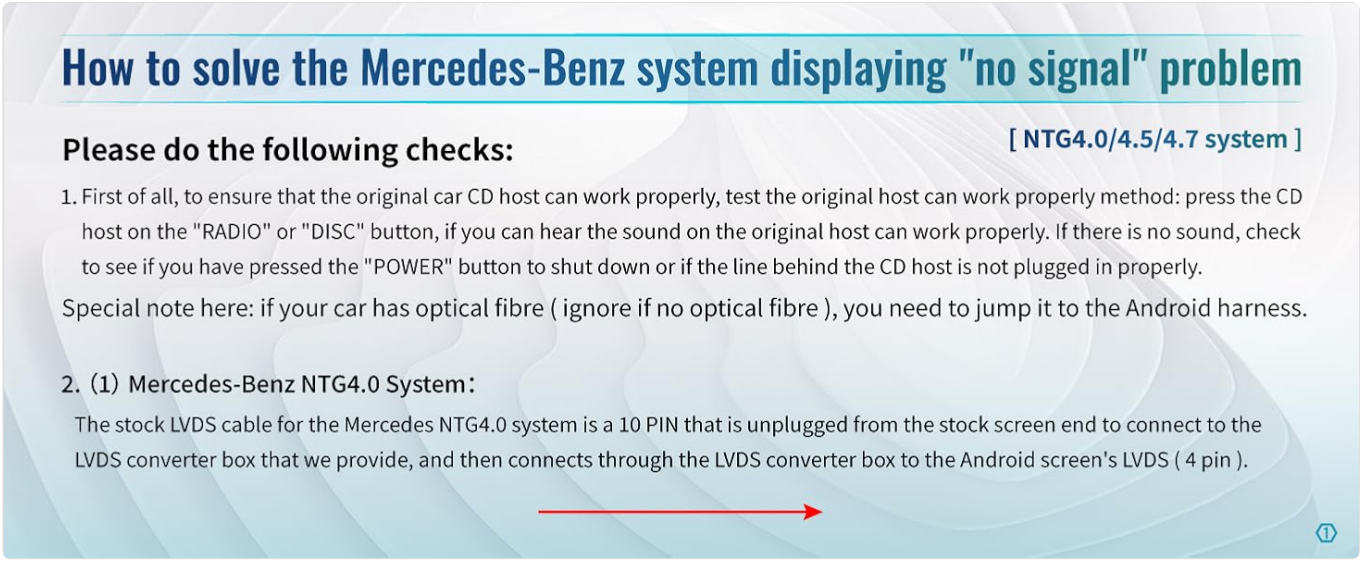


Image 7.1: Resolving the "no signal" problem.

7.2. No Sound Problem (NTG4.0/4.5/4.7 System)

If there is no sound after installation, or audio issues with CarPlay/Bluetooth, it is usually a wiring problem. Follow these steps:

1. **Set AUX Switching Mode to Manual:** Go to *Settings > Factory (Key: 2018) > Vehicle > AUX Switching Modes* and select "Manual".
2. **AUX Input Connection:** Ensure the AUX cable is properly connected. Some models may not require this.
3. **Fiber Optic Relocation:** Verify that fiber optic cables (if present) have been correctly relocated.
4. **Power Cord Pairing:** Mercedes-Benz NTG4.0 and NTG4.5 power cords have different pairing protocols. Ensure the correct plugs are used for your system (NTG4.0 cars use NTG4.0 header; NTG4.5 cars use NTG4.5 header). Incorrect plugging can cause sound issues.
5. **Activate AUX in Factory Settings:** If no "Aux" option appears in the original Audio menu, enter the Android Factory Mode (click "AUX Activation").
6. **Activate AUX in Engineering Mode:** If the car cannot activate AUX, go to "engineering mode" (press 1+#+hang up buttons together for 8 seconds). Navigate to *7 HW Setting > 7.7 HU Parameter > 4. Audio AUX: ON*

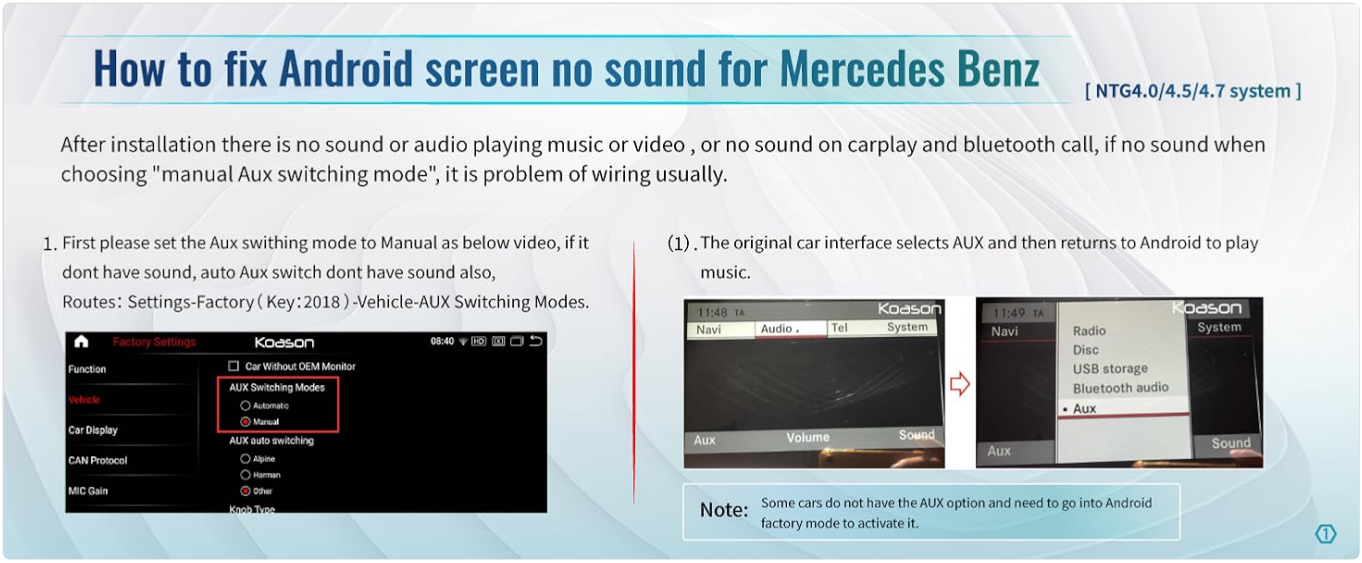


Image 7.2: Resolving the "no sound" problem.

8. Specifications

Feature	Specification
Model Number	KS-H920Q
Screen Size	12.3 inches
Resolution	1920 x 720
Operating System	Android 13
CPU	Qualcomm Snapdragon 665 Octa-core 2GHz
RAM	8 GB
ROM	128 GB
Touchscreen Type	G+G Car standard Capacitive
Display Type	LG HD IPS LCD
Connectivity	Bluetooth, Wi-Fi, 4G LTE
Navigation System	GPS (North America maps pre-installed)
Audio Output Mode	AUX
Item Dimensions (L x W x H)	12.8" x 2.1" x 5.7"
Item Weight	2 kg



Image 8.1: Screen dimensions.

9. Warranty

This product comes with a **one-year warranty** covering parts and labor from the date of purchase. Please retain your proof of purchase for warranty claims.

10. Support

For further assistance, an electronic version of the user manual is available directly within the Android app interface on your new screen. Look for an icon labeled "user manual" or similar, often represented by a PDF reader icon.



Image 10.1: Location of the electronic user manual.

If you require additional support, please contact your retailer or the manufacturer's customer service.

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.

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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.

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