

Zerone DAB DAB+ Radio Receiver Antenna

Zerone DAB DAB+ Radio Receiver Antenna Instruction Manual

Model: DAB DAB+ Radio Receiver Antenna

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Zerone DAB DAB+ Radio Receiver Antenna. This product is designed to enhance digital audio broadcasting (DAB and DAB+) signal reception in vehicles.

The antenna features a compact design and is intended for discreet installation within a vehicle's interior, such as under the windshield.



Figure 1: Zerone DAB DAB+ Radio Receiver Antenna. This image shows the complete antenna unit, including the main

receiver module, the flexible antenna element, and the connected MCX male cable.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. Follow these steps carefully:

- Select Installation Location:** The antenna can be installed under the windshield of the rear window or under the windshield of the front window. Choose a location that provides clear line-of-sight to the sky and minimizes obstructions.
- Clean Surface:** Ensure the chosen surface is clean, dry, and free of dust or grease to ensure proper adhesion of the antenna's patching mechanism.
- Attach Antenna:** Carefully peel off the protective backing from the adhesive side of the antenna element and firmly press it onto the selected clean surface.
- Connect to Receiver:** Connect the MCX male connector of the antenna cable to the corresponding MCX female port on your DAB/DAB+ radio receiver unit. Ensure the connection is secure.
- Power Connection:** The antenna requires a DC5V or DC12V power supply. Connect the antenna's power input to a compatible power source in your vehicle. Refer to your radio receiver's manual for specific power output details.



Figure 2: Example installation of the antenna on a car dashboard. This image illustrates how the antenna can be

discreetly placed on the vehicle's interior, highlighting its compact form factor.

MCX male connector for easy connection



Figure 3: Close-up view of the MCX male connector. This image details the connector type used for interfacing the antenna with a compatible radio receiver.

3. OPERATING INSTRUCTIONS

Once the antenna is correctly installed and connected to your DAB/DAB+ radio receiver, follow your receiver's instructions to scan for available digital radio stations.

- The antenna is designed to receive signals within the operating frequencies of 170MHz to 240MHz (Band III) and 1452MHz to 1492MHz (L-Band).
- The FPC material used in the receiving antenna contributes to strong and stable signal reception.
- Ensure your radio receiver is set to the correct input source for the DAB/DAB+ antenna.

4. MAINTENANCE

The Zerone DAB DAB+ Radio Receiver Antenna requires minimal maintenance. To ensure continued optimal performance:

- Keep the antenna clean and free from dust or debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the antenna to extreme physical stress or harsh chemicals.
- Periodically check the cable connections to ensure they remain secure.

5. TROUBLESHOOTING

If you experience issues with signal reception, consider the following troubleshooting steps:

- **No Signal or Weak Signal:**

- Verify that the antenna's MCX connector is securely attached to the radio receiver.
- Check the power connection to ensure the antenna is receiving adequate power (DC5V/DC12V).
- Ensure the antenna is installed in a location with minimal obstructions and good line-of-sight. Try repositioning the antenna if possible.
- Confirm that your radio receiver is correctly configured for DAB/DAB+ reception and is scanning for stations.

- **Intermittent Signal:**

- Check for loose cable connections.
- Environmental factors such as tall buildings, tunnels, or remote areas can affect signal stability.

6. SPECIFICATIONS

Detailed technical specifications for the Zerone DAB DAB+ Radio Receiver Antenna:

Feature	Specification
Working Current	30mA - 60mA
Output Impedance	50/75Ω
Connector Type	MCX Male
Dynamic Temperature Range	-20°C to +60°C
Static Temperature Range	-40°C to +85°C
Line Length	3m (118.11 inches)
Operating Voltage	DC5V / DC12V
Operating Frequency (Band III)	170MHz to 240MHz
Operating Frequency (L-Band)	1452MHz to 1492MHz
Output Gain (Band III)	15dB ± 3dB
Output Gain (L-Band)	18dB ± 3dB
Installation Method	Patching (Adhesive)
V.S.W.R	≤ 2dB
Item Weight	1.76 ounces
Brand	Zerone
Color	Black
Number of Channels	390



Line Length

3m/118.11inch

Figure 4: The antenna cable length is approximately 3 meters (118.11 inches). This image visually confirms the cable length specification.

7. WARRANTY AND SUPPORT

Specific warranty information for this product is not provided in the available documentation. For warranty details or technical support, please refer to the retailer or the official Zerone brand store. You can visit the official Zerone store for additional product information and support:[Zerone Store](#)