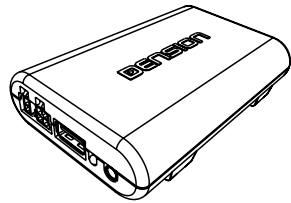


DENSION

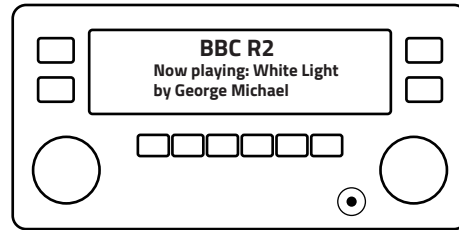
DAB+R DAB Radio Receiver with Remote Controller



User Manual

DBR-9202-1

The Dension DAB+R is a universal solution for listening to your favorite DAB (Digital Audio Broadcast) stations in your car. This device offers full DAB information (metadata) on the display of your car radio through RDS (if your car radio supports radio text).



This manual will explain how to easily install and use the DAB+R device with our remote controller. Please study this user guide carefully and keep it handy in case any questions may arise later.

TECHNICAL DETAILS

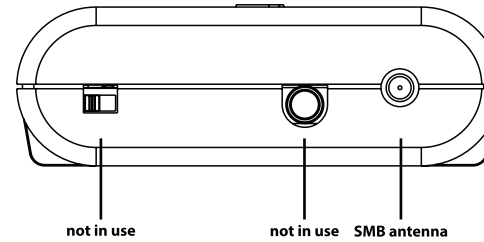
- Digital Audio Services: DAB/DAB+/DMB-A (Supports DAB, DAB+ standards).
- RF Frequency Range: DAB Band III Channels 5A to 13F (174 MHz ~ 240 MHz).
- RF Sensitivity for DAB Band III: -98 dBm ~ -100 dBm.
- FM Transmission Range: 87.6 MHz ~ 107.9 MHz.
- Power supply: 11 V ~ 16V DC Fuse: 1 amp.
- Input Connectors: DC micro fit power plug, 3.5mm stereo audio Auxiliary Input socket. AUX-in connector for external devices.
- Presets: 10 DAB station Presets
- DAB aerial connector SMB Male. Passive and active antenna support (Separate power supply output is provided for active antennas. Phantom powering is not supported).
- Operating Temperature Range: -10 ~ +70 deg C.
- Storage Temperature Range: -40 ~ +85 deg C.

WARNING: Do not expose the remote controller to direct sunlight or heat.

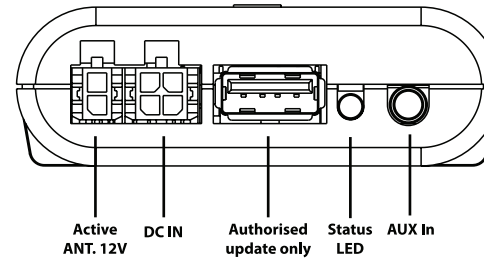
PACKAGE CONTENTS

- Main device (DAB+R module)
- Car side power cable
- Power wire for active antenna
- Power cable with cigar lighter adapter
- Installation accessories
- Quick Start Guide
- Remote Controller

Front view



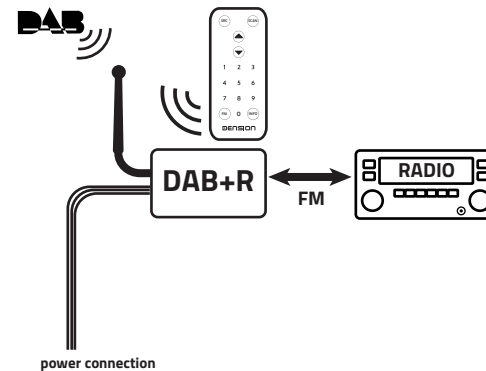
Back view



DEVICE INSTALLATION

Use the included car side power cable and connect the 3 power leads as follow:

- Red: +12V Battery (permanent 12V or ACC)
- Purple: +12V Switched (ACC or ignition)
- Black: Ground (GND)



DAB

DAB (Digital Audio Broadcast) is an international standard for digital radio broadcasts. The availability of DAB stations and broadcast coverage are very much location and country specific. Please consult your local broadcast information for availability.

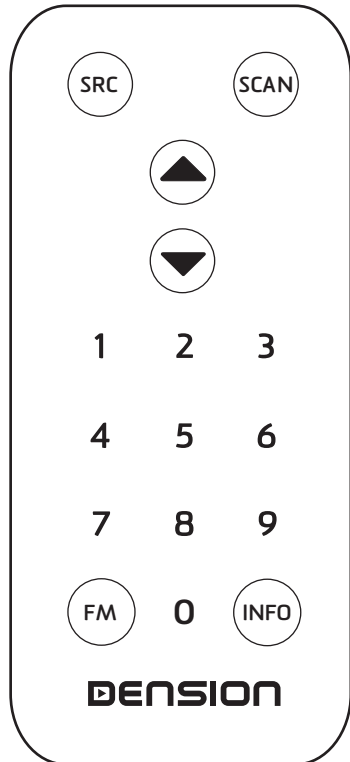
POSITIONING THE DAB ANTENNA

The DAB reception and performance depends on many factors, both in the vehicle and other external conditions. Before you start the antenna installation and/or the product testing, please make sure that you have a good DAB coverage and reception.

Important notes:

- If your vehicle comes with metalized windscreen (e.g. windscreen heating) the external antenna is required to be mounted outside of the car.
- The DAB module supports both amplified and non-amplified aerials. For amplified antennas 12V power is provided by the DAB+R receiver via the 2 pin molex connector. Read the manual of the antenna used carefully and follow the instructions in order to find the right place for installation. Always test (read next chapter) the DAB functions before finalizing the installation.

REMOTE CONTROLLER



FM FREQUENCY SETUP

Manual Scanning

In order to set the FM frequency, you need to follow the next steps:

- Turn the ignition ON,
- Press and hold the **FM** button for 3 seconds,
- Enter the frequency (from 87.6 [876] to 107.9 [1079]),
- Press the **FM** button to store the valid frequency,
- Switch to the selected frequency with your radio.

Automatic Scanning

You can also start an automatic FM frequency scan. To use this option, you need to do the following:

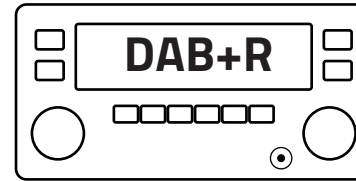
- Turn the ignition ON,
- Press and hold the **FM** button for 3 seconds,
- Press the **▲** up arrow button.

After this, the device will be looking for a free frequency and will set it automatically. This frequency can be found if you do an FM scan with your radio.

OPERATION

During the first use or if there is no station selected, the **DAB+R title is shown on the RDS display** of the radio.

First of all, you need to perform a DAB scan which you can do by pressing the **SCAN** button. During the scan, you should see DAB SCAN on the display.



If the NOSIGNAL message appears on the radio, that means there is no DAB reception. In this case, please check the location and the connection of the aerial.

Navigation between stations

By pressing the **▲** up and **▼** down arrow buttons, you can skip to the next or previous stations. If you press and hold these buttons, you can skip in 5 station steps (alphabetically).

Presets

You can store presets to the **1** - **9** buttons. To store the actually played station, you need to press and hold one of the numerical buttons.

After this, you can switch to that station directly by short pressing the same button.

Auxiliary source

The device gives you the possibility to listen to music from an external source through a 3,5mm Jack connector. In order to mute the DAB radio and use the Auxiliary input of the device, you need to press the **SRC** button. In this mode, you should see "AUX" in the RDS display.

Pressing the button again reactivates the DAB source.

Please note: The device connected to the auxiliary input has to be paused separately, using the controls of the device itself.

Diagnostic

During playback, with the **INFO** button, you can switch between the text of the actually played DAB channel and between the software information of the DAB+R device and of the DAB module.

POWER SUPPLY INFORMATION

Use the included car side power cable and connect the 3 power leads as follow:

3 wire installation

- Red: +12V Battery (permanent 12V or ACC)
- Purple: +12V Switched (ACC or ignition)
- Black: Ground (GND)

2 wire installation

- Red & Purple Terminated together: +12V Switched
- Black: Ground (GND)

Please Note: Our product has the memory back up so the Permanent feed is not required for all installations

DISCLAIMER AND WARRANTY

Disclaimer

If your car's electrical system begins to behave erratically, please disconnect the DAB+R device physically immediately and have it checked by your installer.

Dension and its authorized distributors and retailers are not liable for any incidental consequential or indirect damages or loss and do not assume liability for any diagnostic fees.

The use of handheld devices while driving may be subject to government legislation. Please ensure that your use of the Dension device complies with applicable traffic laws. Dension does not assume liability for any events resulting from the illegal or irresponsible use of handheld devices while driving. Dension reserves the right to modify its products or specifications without prior notice.

Warranty

Dension devices carry a one-year limited warranty that protects you from defects in material and workmanship of products sold by Dension or its authorized distributors and retailers. Dension does not warrant any installation work or assume liability for any damage caused due to negligence, improper installation or operation. For warranty claims, proof of purchase is required