



# 1 Safety Instructions



The lightning bolt symbol in the triangle alerts the user to dangerous voltages on some exposed components inside the unit.



The exclamation point in the triangle points the user to important operating and maintenance (service) instructions in this manual that should be followed.

The device has been tested and meets the FCC standard standards of a class B device. These standards have been developed to avoid or reduce interference with other domestic electrical appliances. This device may cause radio waves and, if not installed as directed, may cause interference to the radio or television, for example when the device is turned on or off.

## Operation Manual

- Follow the safety instructions and instructions in this manual.
- This manual should be kept secure for future reference.

## Safety instructions (installation and operation)

- Never touch the device with wet or wet hands.
- The device can only be operated with the voltage described on the back and on the power supply unit.
- This device should not be positioned near moisture and water.
- Do not place the device on an unstable surface. The device could be damaged or persons injured. Any fixings should only be installed according to the manufacturer's information or obtained from the manufacturer.
- The cable is sheathed and insulates the electricity. Please do not place any objects on the cable, as this may result in loss of the protective function. Avoid heavy loads on the cable, especially on sockets and plugs.
- If you want to remove the plug from the socket, always pull on the plug and not on the cable. Otherwise the cable could break.
- To protect the device during a thunderstorm or when left unattended for a long time: Disconnect the plug from the mains. This prevents damage due to lightning strikes.
- An outdoor antenna should not be installed near power lines or other circuits. When attaching such antennas, extreme care should be taken, as contact with such cables can be fatal.
- Do not overload electrical outlets, extension cords or other wiring, as this may result in fire or electric shock.
- No objects may be introduced into the openings of the device, as in some places electricity flows and the contact may cause fire or electric shock.
- Disconnect the power plug from the socket for cleaning.
- Do not use liquid cleaners or cleaning sprays. The device may only be cleaned with a damp cloth.

## 2 Safety Instructions

- Do not connect accessories that are not recommended by the manufacturer.
- The openings of the housing are used for ventilation, so that the device does not overheat. These must always be kept free.
- The appliance must not be located near sources of heat, such as stoves, heaters. Protect the device from moisture and weathering.
- Do not place any containers with liquids on the device.
- Do not expose the device to direct sunlight. This affects the function and could lead to damage.
- Do not operate the device in dusty environments. Heavy cigarette smoke can affect electronic devices. Damage caused by cigarette smoke will not be repaired free of charge as part of the statutory warranty.

### Delivery

The following components are included in the delivery:

- Radio DAB240
- Power Adapter
- User Manual

If any of these parts are missing, please contact your dealer as soon as possible. Keep the original packaging in case the unit needs to be returned to the dealer.

### Insert Batteries

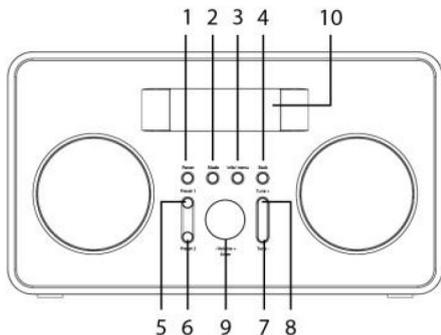
1. Open the battery compartment and insert the batteries there (page 3). Please pay attention to the correct polarity (+/-) when inserting the battery.
2. Close the battery door again.
3. Remove the batteries from the device if you are not going to use the device for a long time.

### Notes:

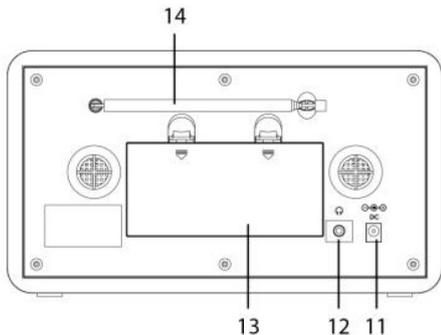
- Remove and replace old batteries. These could leak and damage the device.
- Remove leaking battery fluid with a cloth. Avoid skin contact with the fluid.
- If the battery or battery fluid is swallowed, seek medical attention immediately.
- In case of skin / eye contact, wash out the skin / eyes and consult a doctor.

### 3 Device Overview & Power Supply

Front



Back



- |    |                           |   |
|----|---------------------------|---|
| 1  | <b>Power</b>              | To turn the device on / off, standby mode                     |
| 2  | <b>Mode</b>               | Switch DAB+ / FM mode   |
| 3  | <b>Info/Menu</b>          | Call up information / Call up the main menu                   |
| 4  | <b>Alarm/Back</b>         | Alarm / back  |
| 5  | <b>Preset 1</b>           | Station memory 1  |
| 6  | <b>Preset 2+</b>          | Station memory 1-10 / Speed dial key with Tune + controllable |
| 7  | <b>Tune -</b>             | Station search, back  |
| 8  | <b>Tune +</b>             | Station search, forward                                       |
| 9  | <b>- VOLUME + / Enter</b> | Volume control / Enter  |
| 10 |                           | Display   |
| 11 | <b>DC</b>                 | Connection for the power supply                               |
| 12 |                           | Headphone jack  |
| 13 |                           | Battery   |
| 14 |                           | Antenna   |

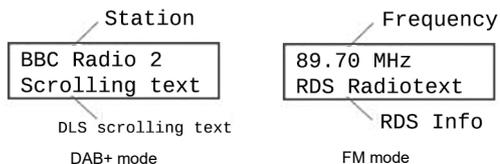
#### Power Supply

Use only the supplied AC adapter for power supply. Observe the information on the rating plate of the power supply unit.

#### Notes:

- The power supply provides a stabilized DC voltage of 6V. Operating with an unstabilized voltage can damage the device. Only the included power supply ensures safe operation and compliance with all regulations and standards.
- The power supply is suitable for a mains voltage of 100-240 V and can therefore be used in almost all AC-based power grids. Note that this may require a country-specific adapter.
- With multiple sockets, make sure that the connected consumers do not exceed the permissible total power consumption. Disconnect the product from the mains if you are not going to use it for a long time.

Display Mode



For mobile use, you can alternatively use batteries for the power supply of the device. Please read the notes on page 2 of this manual.

### **Antenna**

Disconnect the telescopic antenna (14) installed on the device from the holder and pull out the antenna. For the initial setup and the associated station search, it is advisable to position the radio at a window or outdoors. Later, you can position the radio in the living room and make the best possible reception with the antenna.

#### Notes:

- To ensure optimum reception performance, please note that the antenna is fully extended.
- If necessary, you should test different locations to get the best possible reception.

### **On/Off, Standby Mode**

When the unit is plugged in or the batteries are plugged in, pressing the power button on the front panel will put the unit in the operating mode or put it in standby mode during operation. In standby mode the date and time are displayed with reduced backlight.

#### Notes:

- If you want to use the alarm function, the device must be in standby mode. In completely de-energized state no alarm is possible!
- During battery operation, the standby function may affect the life of the batteries. If you do not use the device for a longer period, it is recommended to switch off the device completely and remove the batteries!

### **Initial Installation**

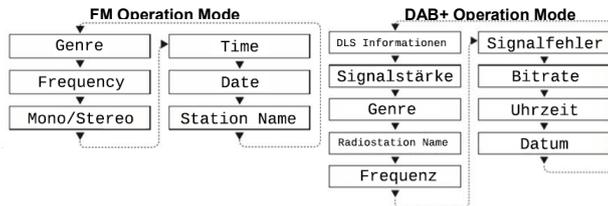
At initial startup or after a factory reset (page 7), you must configure the device as follows. Briefly press the power button on the front panel until the device starts and the display illumination is activated. The unit now performs an automatic DAB + station search and starts on the first found radio station with the playback. During the search process, the display on the right side will show you the radio stations already found. The progress bar on the bottom lets you see how far the search has progressed.

#### Notes:

- For the initial setup and the associated station search, it is advisable to position the radio at a window or outdoors. Later, you can position the radio in the living room and make the best possible reception with the antenna.
- If you do not have DAB + reception in your environment, switch the device to the "FM" operating mode (page 5) after the initial setup and carry out a station search there (page 6).

**Information**

To display information about the selected radio station, briefly press the **Info/Menu** button. Depending on the station, you can call up information on the frequency, radio text, date or time in the display by briefly pressing the **Info/Menu** button again.

**Sleeptimer/Timer**

The device is equipped with a sleep timer. When the function is activated, the device can automatically switch to standby mode after a predefined time. To activate the function, press the **Info/Menu** button long and press the **Tune+** button until the "System" menu appears. Press the **Enter** key once to enter the menu. Press the **Tune+** button again to select the sleeptimer menu. By pressing the **Tune+** key you define the time interval (15, 30, 45, 60, 90 minutes) for the automatic shutdown. To deactivate the function, press the **Tune+** key until "Off" appears in the display.

**Operation Mode**

The device has two ways to receive radio programs. After the initial setup (page 4), you can switch between the reception options via the **Mode** button on the front of the device.

**FM Radio**

Worldwide VHF band II radio operates between 87.5 MHz and 108.0 MHz. In some countries only parts of it are used. Only Japan and some countries of the former Eastern Bloc, as well as Brazil in future, sometimes use other frequency bands. The Radio Data System (RDS) translates additional information into radio broadcasting. The unit supports station-dependent display of the radio station name and advanced broadcast information on the display.

**DAB+ Radio**

Digital Audio Broadcasting (DAB) is a digital broadcasting standard for terrestrial digital radio reception. It is suitable for the frequency range from 30 MHz to 3 GHz. DAB was developed in the Eureka 147 project of the EU in the years 1987-2000. Receiving stations using HE AAC + V2 coding is only possible with DAB + receivers. With the aim of distinguishing the receivers that can also decode HE AAC + V2 in addition to MPEG-1 Layer 2, WorldDMB invented the designation "DAB +". However, this is a pure marketing name that is not part of the standard. All devices available since November 2011 that can receive DAB + are backward compatible and can also receive DAB broadcasts using the current procedure (MPEG-1 Layer 2).

**Volume**

Turn the - **VOLUME** + knob on the front of the volume control unit.

### Automatic Radio Station Search

Select the "DAB +" mode, long press the **Tune+** button on the front of the unit. The automatic station search is started. During the search process, the display on the right side will show you the radio stations already found. The progress bar on the bottom lets you see how far the search has progressed.

Select the "FM" mode, briefly press the **Tune+** button on the front of the unit to start the automatic station search. The device will search automatically until a high-frequency station is found.

### Manual Radio Station Search

Use the "DAB +" mode, then press the **Tune+** button on the front of the unit to select from the available radio stations. Pressing the **Tune+** or **Tune-** key calls up the previously selected radio station.

Use the "FM" mode, then press the **Tune+** button on the front of the unit to scan individual frequencies. This feature may help you find less-listening radio stations. Normally, the automatic station search is the simplest and most effective. If you press the **Tune+** button for longer, the automatic search will be activated until the next radio station is found.

### Presets

The device offers a station memory, with which you can store up to 10 of your favorite stations. By pressing the **Preset 1** button, you can quickly call up your favorite station at any time. Presets 1-10 can be accessed by briefly pressing the **Preset 2+** button and then using the **Tune +** or **Tune-** buttons to select the desired number.

Start a channel scan until you are on a radio station that you would like to permanently store in the station memory. Press the **Preset 1** button on the front of the device for a long time until "Save" appears on the display. By pressing and holding the **Preset 2+** button, you can store more stations. Select the desired memory location by pressing the **Tune+** or **Tune-** buttons. Confirm with the **Enter** key to save the station.

### Alarm Function

The device offers an alarm function. Press the **Alarm/Back** button to call Alarm 1 and press the **Alarm/Back** button again to select Alarm 2. The individual options can be reached by pressing the **Tune+** button. Confirm by pressing the **Enter** key. You can define the alarm time, select the alarm sound (source, here also DAB + or FM radio selectable), define the repeat (daily, once, weekdays, weekends), adjust the volume and activate the alarm "alarm on" or deactivate "alarm off".

If the alarm is active, a bell icon appears on the display when the unit is in standby mode. When the alarm time arrives, the unit will switch according to your alarms.

**Note:** The alarm function is only possible when used with the power supply! This ensures the power supply to avoid wasting the capacity of the batteries is before the time of the set alarm occurs.

## Main Menu

You can make various settings in the main menu of the device. Press the **Info/Menu** button to enter the main menu. Press the **Tune+** or **Tune-** button to select from the setting options. Press the **Enter** key to access functions in the submenu or to confirm entries.

### DAB+ Mode

*Complete Search* Performs an automatic station search (page 6)

*Manual Search* Performs a manual station search (page 6)

*DRC* Adjustment of the dynamic range of a broadcast program. According to the DAB standard, an individual dynamic adaptation on the receiver side can be achieved by means of the so-called Dynamic Range Control System (DRC) by means of a continuous transmission of dynamic control data embedded in the DAB bit stream. From the menu, choose between *High*, *Low*, or *Off* (disable).

*Clear* If your channel list contains stations that are no longer available, checking this option will clear the list.

### **System**

*Alarm* Settings menu for the alarm function (page 6)

*Time* Set *Time/Date* Manual time setting

*Auto Update* Automatic time adjustment

Set *12/24 format* Switching 12/24 hours time format

*Date format* Switching date format

*Backlight* In this menu, you set the brightness and the time when the backlight should automatically switch off when no input is made.

*Language* Choose your language (German/English)

*Factory Settings* If you select "Yes" and confirm the entry by pressing the **Enter** key, the device will be reset to the factory settings. All stations and settings are lost!

*SW Version* Displays the software version of the device

### FM Mode

*Search Settings* *All Stations* Look for all radio stations, including those with bad reception

*Strong Stations* Look only for radio stations that have a strong reception

*Audio Settings* *Mono* All radio programs are played in mono sound track. This may increase the reception quality of the reception.

*Stereo* Allow stereo soundtrack.

### **System**

*Alarm* Settings menu for the alarm function (page 6)

*Time* Set *Time/Date* Manual time setting

*Auto Update* Automatic time adjustment

Set *12/24 format* Switching 12/24 hours time format

*Date format* Switching date format

*Backlight* In this menu, you set the brightness and the time when the backlight should automatically switch off when no input is made.

*Language* Choose your language (German/English)

*Factory Settings* If you select "Yes" and confirm the entry by pressing the **Enter** key, the device will be reset to the factory settings. All stations and settings are lost!

*SW Version* Displays the software version of the device

In case the products delivered are not free from defects in material or workmanship, MAS Elektronik AG has the right to either repair or replace the defective product at its choice. MAS Elektronik AG manufactures and repairs goods using components which are new or equivalent to new in accordance with industry standards and practice. The warranty for wearing parts (e.g. rechargeable batteries) is limited to 6 months. In case the device is equipped with internal data storage (e.g. hard disc drive, Flash drive), the customer is responsible to backup his data before sending the device. MAS Elektronik AG is not liable for any data loss on returned devices. MAS Elektronik AG reserves the right to reset returned devices to factory defaults. Please note your personal settings for this reason.

MAS Elektronik AG is not liable for any accessories not belonging to original package content such as DVDs, hard disc drives, Flash storage devices, batteries, etc. This limited warranty covers the warranty requirements set by authorities in your country. This limited warranty does not cover finishes, accessories or batteries, nor does it cover damage resulting from accident, misuse, abuse, dirt, water, battery leakage, tampering, servicing performed or attempted by unauthorized service agencies. This limited warranty does not cover damages resulting from firmware upgrades. Only in case of firmware upgrades needed to add functions promised at time of purchase, such damages are covered by this limited warranty.

For a correct and frictionless completion of warranty or repairs you need a RMA No. You may obtain a RMA on the internet at [www.xoro.de/service](http://www.xoro.de/service) or by telephone.

Please send the device in its original packing material, all standard accessories and a copy of the invoice, a description of defect and the RMA No. to following address. Please note the RMA number clear and in large numbers on the outer package.

### Contact with Customer Service:

Phone: +49 4161 800 24 24 (Mon-Fri: from 11:00 to 17:00)  
eMail: [support@ersservice.de](mailto:support@ersservice.de)

ERS GmbH Elektronik Repair Service  
Weidegrund 3  
D-21614 Buxtehude / Niedersachsen  
Germany

If you have questions or problems using your device, we are happy to help you.

### Recycling Information

#### *Recycling of Electrical Appliances*

The product has been designed and manufactured with high quality materials and components that are recyclable and reusable. This crossed-out wheeled bin on the product or on the packaging means that the product complies with European Directive 2012/19 / EU.



Check local regulations for separate disposal of electronic equipment. Observe local regulations and do not dispose of old products with normal household waste. By properly disposing of old products you contribute to the protection of the environment and human health.

#### *Recycling of paper and cardboard*

The material recycling symbol on the packaging box and user manual means that they are recyclable. Do not dispose of it with normal household waste.



#### *Recycling of plastics*

The material recycling symbol on plastic parts means that they are recyclable. Do not dispose of it with normal household waste.



#### *The green dot*

The green dot on cartons means that the MAS Elektronik AG pays a tax to the society for waste prevention and secondary raw material extraction.



#### *Batteries*

Every consumer is legally obliged to return batteries to a collection point in his community or in commerce so that they can be disposed of in an environmentally friendly manner. Please do not dispose of batteries with household waste.

### EU-Declaration of Conformity

The CE mark states that this product meets the essential requirements and guidelines of the European regulations. If this product is used in accordance with this instruction manual, the product complies with the requirements of the RED 2014/53/ EU Directive. Further information, as well as a detailed EC declaration of conformity for download, can be found in the download area of this device on the website ([www.xoro.de](http://www.xoro.de)).





**XORO by MAS Elektronik AG**

**Weidegrund 3**

**21614 Buxtehude**

**Germany**

**Tel: 04161 - 800 24 24**

**[www.xoro.de](http://www.xoro.de)**