

# KENWOOD

Smart Micro HiFi System

## **M-9500S**

### OPERATING INSTRUCTIONS

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JVCKENWOOD Corporation

ENGLISH

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# 1. Before switching on the power supply

## IMPORTANT SAFETY INSTRUCTIONS

Attention: Read this page carefully to ensure safe operation of the device.

### Read instructions carefully!

- Follow all safety and operating instructions when using this product.

### Keep the instructions in a safe place!

- You should keep the safety and operating instructions for future reference.

### Follow the warning instructions!

- You should strictly follow all warnings provided on the product and listed in the operating instructions.

### Clean only with a dry cloth!

- Pull out the mains plug of this device from the mains power socket before cleaning this product. Never use liquid cleaning detergents or cleaning sprays. Use only a slightly damp cloth for cleaning.

### Accessories

- Use only the accessories specified by the manufacturer.

### Do not use this device near water

- The device should never be exposed to water droplets or water splashes, such as those found near a bathtub, wash basin, kitchen sink, washing machine, wet basement or swimming pool. Never place containers filled with liquids, such as e.g. flower vases, on the device.

### Ventilation

- Slots and openings in the housing are used to ventilate the device to ensure reliable operation of the device and to protect the device from overheating and possible autoignition. Do not block the ventilation holes. Install the device according to the manufacturer's instructions. Never block the ventilation holes by placing the device on a bed, sofa, rug, or similar soft surfaces. This device should not be installed in a bookshelf or built-in wardrobe unless adequate ventilation is ensured.

### Power supply

- This device may be connected only to the mains voltage indicated on the device. If you are unsure about the type of power supply in your home, contact your specialised dealer or power company.

### Power cord

- Make sure that you can not trip over the power cable or that it is disconnected in the immediate vicinity of a power outlet, including auxiliary sockets. The power cable must not be squeezed under any circumstances even when exiting the device.

Since the mains plug is used for completely disconnecting from the power supply, it must be left on the power cable and remain accessible at all times.

### Thunderstorm

- The device should be disconnected from the mains during thunderstorms and if it is not used for a long time.

## **Overload**

- Never overload mains sockets, extension cords or multiple sockets, otherwise there is a risk of fire or electric shock.

## **Penetration of foreign material and liquid**

- Be careful not to allow foreign material or liquid to enter this device through ventilation holes, otherwise it may come into contact with high voltage components or short circuit resulting in a fire or electric shock. Never spill liquids of any kind on this device.

## **Maintenance**

- Never attempt to carry out the maintenance of this device yourself, because live parts can be exposed through the openings or by removing covers, contacting which can be hazardous. Leave all maintenance to qualified service personnel.

## **Damage requiring repair**

- Maintenance and repair work should only be carried out by a qualified customer service. Maintenance/repair is required if the device has been damaged (e.g. the power cable or plug), if liquid has spilled into the device, if objects have penetrated the device, if the device has been exposed to rain or moisture, if it no longer works properly or has fallen down.

## **Spare parts**

- If replacement parts are required, make sure that the customer service technician uses spare parts specified by the manufacturer or that have the same characteristics as the original parts. Unauthorised parts may cause fire, electric shock or other accidents.

## **Safety test**

- After completing service or repair of this device, ask the customer service technician to perform a safety test to determine if the equipment is in good working order.

## **Heat**

- Do not install the device near hot surfaces, such as radiators, fan heaters, stoves or other devices (including amplifiers) that can be hot. Never place objects with open flame, such as candles or lanterns, on or near the device. The batteries installed in the remote control should not be exposed to excessive heat such as direct sunlight, fire, etc.

## **Batteries**

- If you do not use the device for a month or more, remove the batteries from the battery compartment of the remote control to prevent it from leaking. Immediately dispose of leaking batteries properly and observe all relevant legal regulations. Leaking batteries can cause injury and damage the device. Never mix batteries of different types or old and new batteries.

## **To minimize the risk of electric shock, fire, etc.**

- do not remove screws, covers or body parts.
  - the power button does not completely disconnect the power supply in any position.
- In order to completely disconnect the device from the power supply, please pull the mains plug out of the socket.

### **Risks associated with high volume**

- To prevent possible hearing damage, do not listen at high volume for long periods. This applies in particular for the Usage of headphones.

### **Network connection**

- Please make sure that the firewall function is activated at your network access point (router). Consult your router's instruction manual.
- If you do not want to set up a network connection, please do not run the setup wizard.

### **Remote Control**

- Exposing the remote control sensor to direct sunlight or high-frequency fluorescent light may cause malfunction. In such cases, you should move the system to a different location to avoid such malfunction.
- The supplied batteries are intended for functional testing and may have a limited lifetime. If the range of the remote control decreases, replace the old battery with a new one.

### **Caution!**

Risk of explosion

- if incorrect batteries are used;
- high or low extreme temperatures to which a battery may be exposed during use, storage or transport;
- low air pressure at high altitude;
- if the batteries are disposed of in fire or in a heated oven;
- with mechanical crushing or cutting of a battery;
- when leaving a battery in an environment with extremely high temperatures or with extremely low air pressure, which may cause an explosion or escaping of flammable liquids or gases.

### **Automatic energy saving function**

The model is equipped with an automatic energy saving function. This switches the device to standby mode within 15 minutes if it is played at a very low volume or if the radio is muted. This setting cannot be changed.

### **IMPORTANT FOR LASER PRODUCTS**

1. CLASS 1 LASER PRODUCT
2. CAUTION: Do not open the casing. The device contains no user serviceable parts; Maintenance should only be carried out by qualified personnel.

### **Please note:**

The operating steps and menu items described in this operating instructions correspond to the status at the time of printing of this document. There might be minor differences in the operation or naming of menu items due to the interim firmware updates.

## 2. Declaration of Conformity

### EU Declaration of Conformity

Hereby, JVCKENWOOD Corporation declares that the radio equipment type [KENWOOD] M-9500S complies with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following Internet address: <http://www.kenwood.com/euukdoc/>

### For United Kingdom

Hereby, JVCKENWOOD Corporation declares that the radio equipment type [KENWOOD] M-9500S complies with Radio Equipment Ordinance 2017. The full text of the EU Declaration of Conformity is available at the following Internet address: <http://www.kenwood.com/euukdoc/>

#### Manufacturer:

JVCKENWOOD Corporation  
3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022, JAPAN  
<https://www.jvckenwood.com/en.html>

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UNITED KINGDOM  
<https://uk.jvckenwood.com>

#### Producer (batteries):

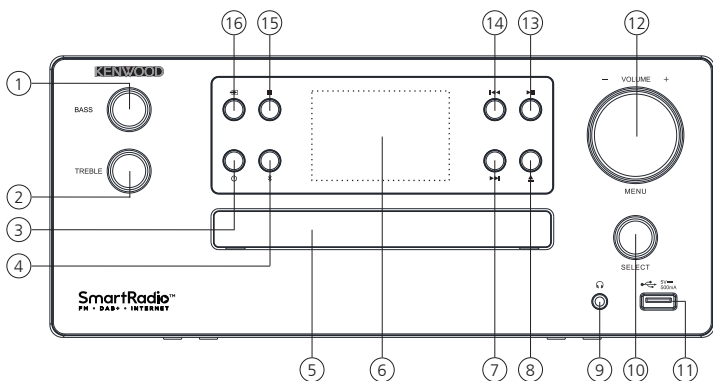
Foshan Jiaying Battery Co., Ltd.  
3F-1& 3, Bldg C3, No.2, Shizhou Section, Baichen Road, Gangbei Industrial Zone, Chencun Town, Shunde District, Foshan, Guangdong, CHINA  
<http://www.jybjjiaying.com/>

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Due to the 5 GHz frequency range of the built-in WLAN module, use is only permitted inside buildings in the following countries.											
											
AT	BE	BG	CZ	DK	EE	FR	DE	IS	IE	IT	UK
EL	ES	CY	LV	LI	LT	LU	HU	MT	NL	NO	
PL	PT	RO	SL	SK	TR	FI	SE	CH	UK (NI)	HR	
AT = Austria, BE = Belgium, BG = Bulgaria, CZ = Czech Republic, DK = Denmark, EE = Estonia, FR = France, DE = Germany, IS = Iceland, IE = Ireland, IT = Italy, EL = Greece, ES = Spain, CY = Cyprus, LV = Latvia, LT = Lithuania, LU = Luxembourg, HU = Hungary, MT = Malta, NL = Netherlands, NO = Norway, PL = Poland, PT = Portugal, RO = Romania, SL = Slovenia, SK = Slovakia, TR = Turkey, FI = Finland, SE = Sweden, CH = Switzerland, UK(NI) = Northern Ireland, HR = Croatia											UK = United Kingdom

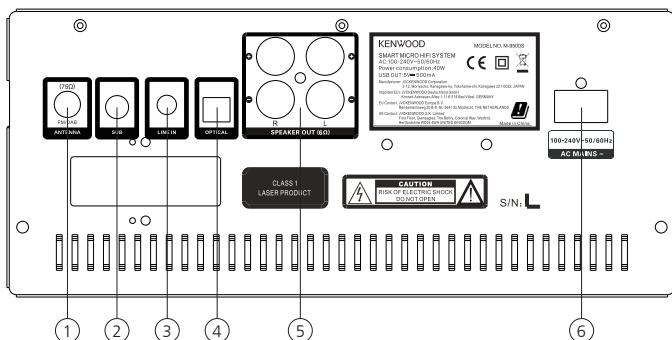
# 3. Components and functions

## Front side



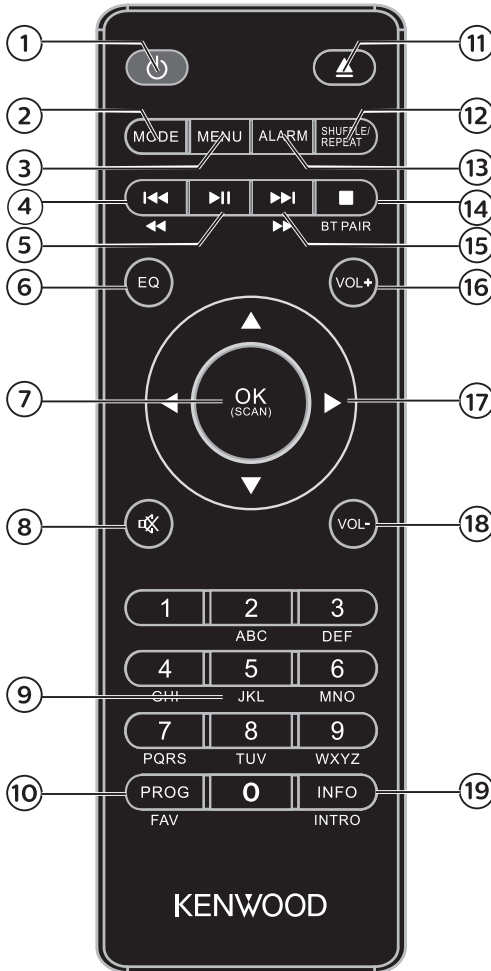
- |                             |                                  |                                |                            |
|-----------------------------|----------------------------------|--------------------------------|----------------------------|
| <b>1</b> - Bass knob        | <b>2</b> - Treble knob           | <b>3</b> - Standby (On/Off)    | <b>4</b> - BLUETOOTH       |
| <b>5</b> - CD drawer        | <b>6</b> - TFT display           | <b>7</b> - Skip track forwards | <b>8</b> - CD Eject        |
| <b>9</b> - Headphone socket | <b>10</b> - SELECT knob          | <b>11</b> - USB connection     | <b>12</b> - Volume / Menu  |
| <b>13</b> - Play/Pause      | <b>14</b> - Skip track backwards | <b>15</b> - Stop               | <b>16</b> - Mode selection |

## Backside



- |                                  |                               |                                   |
|----------------------------------|-------------------------------|-----------------------------------|
| <b>1</b> - Antenna input         | <b>2</b> - Subwoofer output   | <b>3</b> - Line-in input          |
| <b>4</b> - Digital optical input | <b>5</b> - Speaker connection | <b>6</b> - Connection mains cable |

## Remote Control



- 1 Standby (On/Off)
- 2 Mode selection
- 3 Menu
- 4 Skip track/track search backwards
- 5 Play/Pause
- 6 Equalizer
- 7 Confirm entry/FM search
- 8 Mute
- 9 Number keys
- 10 Track programming; use preset memory
- 11 Open/close CD drawer (Eject)
- 12 Random mode/repeat
- 13 Set alarm clock
- 14 Stop playback; BLUETOOTH pairing
- 15 Skip track/track search forwards
- 16 Increase the volume
- 17 Up/Down/Left/Right buttons
- 18 Reducing volume
- 19 Switching screen information; 10 seconds Intro per track with playback



## 4. Start-up

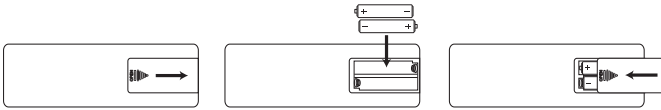
### 4.1 Unpacking

Carefully unpack the device and make sure all accessories are present:

- Infrared remote control
- FM/DAB + wire antenna
- 2 x AAA/R03 batteries
- Operating instructions
- 2 x speakers
- Power cord

### 4.2 Connect

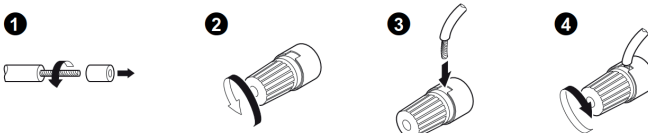
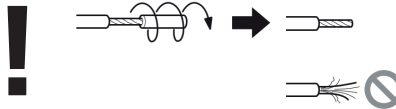
- Open the battery compartment of the remote control and insert the batteries with correct polarity. The specified polarity (+/-) is marked in the battery compartment.



- **Connecting the speaker:**

Twist the ends of the speaker cable such that no strands stick out.

An accidental mix-up of the polarity results in unnatural sounds and unclear localisation of the sound source. In this case correct the polarity of the cable.



- Finally, connect the mains cable to the device and to the mains socket.

### 4.3 DAB + / FM antenna connection

1. Connect the wire antenna to **[FM ANTENNA 75Ω]** socket.
2. Find the place where the best reception is achieved.
3. Fix the antenna.

The antenna supplied with the system is a simple wire antenna. It is recommended to use an outdoor antenna (commercially available) for stable signal reception.

**The reception of radio stations from the cable network cannot be guaranteed.**

### 4.4 Network connection

In order to receive Internet radio, the radio must be integrated into a network. To do this, the router must be switched on and connected to the Internet. Make sure that the WLAN connection of the router is activated. You can also consult the router's operating instructions.

## 4.5 Switching On/Off (standby)

Press the **<STANDBY>** button on the remote control or on the device to switch on the radio. Press the button again to put the device into standby mode.

To switch it off completely, disconnect it from the power supply.

## 4.6 Navigate in the menus

You can navigate through the menus by pressing the **<Up/Down/Left/Right>** buttons on the remote control. Pressing once on the **<OK>** button confirms the selection. These operating steps can also be carried out on the device using the **<SELECT>** and **<VOLUME>** knobs. Pressing the **<VOLUME>** calls up the source-related menu, you can make the selection and confirm with **<SELECT>**. By pressing the **<VOLUME>** knob you can go back a step in the menu.

**Unless specified otherwise, this operating instructions refer to the use of remote control for setting the functions.**

## 4.7 Entering passwords, search texts, etc.

Use the **<Up/Down/Left/Right>** to select the corresponding numbers and/or letters individually and confirm the selection by pressing **<OK>**. To correct an incorrect entry, please go to the **<BKSP>** field and confirm with the **<OK>** button on the remote control. This will delete the last entry. Use the **"CANCEL"** field to cancel the entry completely. If your selection is complete, please navigate to the **"OK"** field and confirm the selection by pressing the **<OK>** button. You can also do this directly on the device. For this, use the **<SELECT>** and **<VOLUME>** knobs.

## 4.8 Adjusting volume and "Mute"

You can adjust the volume by pressing the **<VOL+>** and **<VOL->** buttons on the remote control or by turning the **<VOLUME>** knob on the device. Pressing the **<MUTE>** button mutes the radio. Another pressing of the button restores the original volume.

## 4.9 Additional information

By repeatedly pressing the **<INFO>** button, depending on the source and station, additional information can be displayed:

- Description
- Name of the station, the current program, content, topics, etc.
- Genre
- The program style (genre) of the station is displayed.
- Signal level and signal error
- Bit rate
- Channel information
- Today's date and current time

In the "FM radio" and "DAB + Digital radio" modes, information on reception strength, stereo mode, RDS signal (only FM) and preset memory is available on the lower right edge of the Display. If the corresponding display is missing, the information is not available.

## 4.10 Setup wizard

At the first Start, the Setup Wizard starts automatically.

The setup wizard runs in English.

You can skip the wizard and call it up again later in German.

## 4.11 Setting the menu language

At the first start-up all available menu languages are listed. Select the desired language with the **<UP/DOWN>** button and confirm with **<OK>**.

## 4.12 Starting the setup wizard

For a simple and quick initial start-up (setting the time and date, setting up the internet connection, etc.), we recommend that you run the setup wizard. To do this, please select **"YES"**. If you want to skip the setup wizard, select **"NO"**.

All settings that are made using the setup wizard can later be made individually via the system settings. Alternatively, the setup wizard can be run again at any time. Then select **"YES"** or **"NO"** to run the setup wizard automatically or not to run the next time the radio is started. Then you are at the Main menu.

- **Date/Time**  
12/24 Hour format
- **Automatic update (time & date)**  
Update from DAB or FM (recommended)  
With automatic updates via the FM/DAB/DAB + radio network, the time and date are provided by the broadcasters. When adjusting via these sources, the time is set correctly even after a power failure. This means that set wake-up times can also be observed.
- **Update from NET**  
When this option is selected, the time and date are automatically set via the Internet connection. In addition, the time zone and summer/winter time can be adjusted.
- **No update**  
Time and date must be set manually.
- **Keep network connection**

The network configuration is discussed in more detail in Section **"System Settings"**.

## 4.13 Main menu

The Main menu contains the various audio sources and setting options:

- Internet radio
- Podcasts
- Spotify
- DAB
- FM
- CD
- USB
- Bluetooth
- Optical In
- LINE IN
- Sleep
- Alarms
- System settings

With the audio source selected, press on the **<MENU>** button on the remote control or **<VOLUME>** on the device and select **"Main menu"**.

## 5. Internet radio

The internet radio offers a huge selection of different offers around the world. You can select the stations in a variety of ways. To do this, please select the **"Internet radio"**.

### 5.1 Station search

The radio offers various options for searching for the desired station.

Navigate within the menu items and options. Once you have found the desired station, confirm your selection with the **<OK>** button. Internet radio playback can be stopped by pressing the **<PLAY/PAUSE>** button on the remote control. Another pressing of the button reloads the station.

#### 5.1.1 Search for countries and regions

To search for stations from certain continents, countries and regions, press the **<Menu>** button to call up the **"Station list"**. Confirm the selection.

Select the **"Location"** menu to select a country or region.

#### 5.1.2 Search by genre

To search for stations with specific music styles or themes, proceed as follows:

Press the **<Menu>** button to call up the **"Station list"**. After confirming the selection, navigate to the **"Discover"** menu. After confirmation, you can further narrow down your search according to the origin or language of the station.

#### 5.1.3 Search by name

If you know the name of the desired station, you can search for it specifically:

Press the **<Menu>** button to call up the **"Station list"**. After confirming the selection, navigate to the **"Search"** menu. Enter all or part of the station name in the input mask and select the **"OK"** field to start the search. You will receive a list of all stations whose names contain the text you are looking for.

#### 5.1.4 Popular stations

You can find a selection of the most popular stations as follows:

Press the **<Menu>** button to call up the **"Station list"**. After confirming the selection, navigate to the **"Popular"** menu and select the desired station.

#### 5.1.5 Local stations

To specifically search for stations from the country of the current location of the radio, please proceed as follows:

Press the **<Menu>** button to call up the **"Station list"**. After confirming the selection, navigate to the menu with the country name of the current location (e.g. **"UK"**).

Within this local limit, you can also search for genres, local or popular stations.

## 5.2 Favourites (memory locations)

40 memory locations (favourites) are available for storing your favourite stations. You can assign these favourites to stations from the sources **"Internet radio"** and **"Podcasts"**. To call up saved stations please briefly press the **<PROG/FAV>** button on the remote control and select the desired memory location with the **<UP/DOWN>** button. To load the station, press **<OK>**.

### 5.2.1 Storing stations with the remote control:

Memory locations 1–10 can be assigned using the number buttons on the remote control. To do this, select the desired station and press and hold a number key on the remote control until **"Preset stored"** appears on the display. The memory locations can now be called up by pressing the remote control briefly.

### 5.2.2 Saving stations in memory locations 11 - 40:

Select the desired station and press and hold the **<PROG/FAV>** button on the remote control until **"Save Preset."** appears in the Display. Now select a memory location from the list of station memories, and confirm the selection with the **<OK>** button. The **"Preset stored"** appears on the display. You can easily call up the station lists by briefly pressing the **<PROG/FAV>** button on the remote control. Use the **<UP/DOWN>** buttons to select a station and press **<OK>** to confirm.

**Note:** The memory locations cannot be deleted, but can only be overwritten with other stations.

## 6. Podcasts

Podcasts are available articles on various topics, e.g. Information broadcasts, news and much more. As with internet radio, here you can filter Podcasts or search for a Podcast in the entire database. To do this, please select the source **"Podcasts"** in the main menu.

### 6.1 Finding podcasts

The radio offers various options for searching for podcasts. Navigate within the menu items and options. Once you have found the podcast you are looking for, confirm your selection with the **<OK>** button. Playback of podcasts can be paused and restarted by pressing the **<PLAY/PAUSE>** button on the remote control. By pressing and holding the **<SKIP TRACK>** you can fast forward and rewind within the podcast at increasing speed (max. 32 times). Brief pressing of the **<SKIP TRACK BACKWARDS>** button you can jumps to the beginning of the podcast.

#### 6.1.1 Search for countries and regions

To search for podcasts from specific continents, countries and regions, press the **<MENU>** button to call up the **"Podcast list"**. Confirm the selection.

Select the **"Location"** menu to select a country or region.

#### 6.1.2 Search by genre

To find podcasts with specific content or topics, proceed as follows:

Press the **<MENU>** button to call up the **"Podcast list"**. After confirming the selection, navigate to the **"Discover"** menu. After confirmation, you can further narrow down the search according to the origin or language of the podcasts.

#### 6.1.3 Search by name

If you know the name of the podcast you want, you can search for it:

Press the **<MENU>** button to call up the **"Podcast list"**. After confirming the selection, navigate to the **"Search"** menu. Enter all or part of the podcast name in the input mask and select the **"OK"** field to start the search. You will receive a list of all podcasts or episodes whose names contain the text you are looking for.

## 6.1.4 Popular podcasts

In order to search for popular podcasts from the country of the current location of the radio, please proceed as follows:

Press the **<MENU>** button to call up the **"Podcast list"**. After confirming the selection, navigate to the menu with the country name of the current location (e.g. **"UK"**). Within this local limit, you can also search for genres, local or popular podcasts.

## 6.2 Favourites (memory locations)

40 storage spaces (favourites) are available for storing podcasts. You can assign these favourites to stations from the sources **"Internet radio"** and **"Podcasts"**. To call up saved stations please briefly press the **<PROG/FAV>** button on the remote control and select the desired memory location with the **<UP/DOWN>** button. To load the station, press **<OK>**.

### 6.2.1 Saving podcasts with the remote control:

Memory locations 1–10 can be assigned using the number buttons on the remote control. To do this, select the desired podcast and press and hold a number key on the remote control until **"Preset stored"** appears on the display. The memory locations can now be called up by pressing the remote control briefly.

### 6.2.2 Saving podcasts on memory locations 11 - 40:

Select the desired podcast and press and hold the **<PROG/FAV>** button on the remote control until the **"Save Preset."** appears in the Display. Now select a memory location from the list of station memories, and confirm the selection with the **<OK>** button. The **"Preset stored"** appears on the display. You can easily call up the station lists by briefly pressing the **<PROG/FAV>** button on the remote control. Use the **<UP/DOWN>** buttons to select a station and press **<OK>** to confirm.

Note: The memory locations cannot be deleted, but can only be overwritten with other stations.

## 7. Spotify

Use your phone, tablet or computer as a remote control for Spotify. Go to [spotify.com/connect](https://spotify.com/connect) to learn how.

The Spotify Software is subject to third party licenses found here: [www.spotify.com/connect/third-party-licenses](https://www.spotify.com/connect/third-party-licenses)

## 8. CD Player

You can use this source to play audio CDs and MP3 CDs. To do this, please select the source "**CD**" in the main menu. Open the CD tray by pressing the **<EJECT>** button on the main unit or on the remote control. Insert the CD and close the tray by pressing **<EJECT>**. Playback begins automatically with the first track on the CD. You can briefly play the tracks on the CD by pressing the **<INTRO>** button on the remote control for 2 seconds. Pressing the button again ends this function. You can directly select individual tracks using the number keys of the remote control.

For audio CDs, information about the number of tracks and total playing time is displayed as follows:

TXX XX:XX

The first number block stands for the number of tracks and the second for the total playing time of the CD.

### 8.1 Playing MP3 files

You can select the files using the **<UP/DOWN>** buttons. With the **<PLAY/PAUSE>** buttons, playback is paused and continued. By continuously pressing the **<SKIP TRACK>** buttons you can fast forward and rewind within the track with increasing speed. Brief pressing of the **<SKIP TRACK BACKWARD>** takes you to the beginning of the track or to the previous Track.

For CDs that contain MP3 files, the number of available folders and files is displayed as follows:

FXX TXXX

The number behind "**F**" stands for the number of folders and the second block of numbers for the total number of "**T**" files.

### 8.2 Repeat and random playback

To play tracks from a CD or MP3 files in a folder in random order, or to repeat the playback of the files, please proceed as follows:

Press the **<MENU>** button and select "**Repeat**" and/or "**Shuffle**". The functions are switched on or off with the **<OK>** button. Alternatively, you can also use the **<SHUFFLE/REPEAT>** button on the remote control.

Repeated presses activate the functions as follows:

**Press once: Repeat track/press twice: Repeat folder (only with MP3)**

**Press thrice: Repeat all/press four times: Random playback/press 5 times: Off**

## 9. USB player

You can use this source to play MP3 files (16 bit/48kHz) from a USB stick. To do this, please select the source **"USB"** in the main menu.

### 9.1 Playing MP3 files

You can select the files using the **<UP/DOWN>** buttons. With the **<PLAY/PAUSE>** buttons, playback is paused and continued. By continuously pressing the **<SKIP TRACK>** buttons you can fast forward and rewind within the track with increasing speed. Brief pressing of the **<SKIP TRACK BACKWARD>** takes you to the beginning of the track or to the previous Track.

### 9.2 Repeat and random playback

To play MP3 files in a folder in random rows, or to repeat the playback of the files, please proceed as follows:

Press the **<MENU>** button and select **"Repeat"** and/or **"Shuffle"**. The functions are switched on or off with the **<OK>** button. Alternatively, you can also use the **<SHUFFLE/REPEAT>** button on the remote control. Repeated presses activate the functions as follows:

**Press once: Repeat track/press twice: Repeat folder**

**Press thrice: Repeat all/press four times: Random playback/press 5 times: Off**

## 10. Digital radio DAB+

To receive the digital radio DAB+, please switch to the source **"DAB Radio"** in the main menu. When switching for the first time, an automatic station search is started. The **"Search"** appears on the display, as well as the number of stations found so far and a corresponding progress bar.

### 10.1 Station search

To search for receivable stations, you can start an automatic search. To do this, use the **<MENU>** button to open the menu and select **"Scan"**. The **"Scanning"** appears on the display, as well as the number of stations found so far and a corresponding progress bar. The stations are then saved in alphabetical order.

Stations that were found during a previous search but cannot currently be received are shown in the station list with a **"?"** in front of the station name.

### 10.2 Manual setting

You can also set ensembles manually. To do this, use the **<MENU>** button to call up the menu and select **"Manual tune"**. Then select the desired station and confirm with **<OK>**. Now information about the ensemble and the signal strength are displayed. Another pressing of the **<OK>** button saves the corresponding stations in the list.

### 10.3 Station list

Press the **<MENU>** button and confirm **"Station list"** with **<OK>**. Use the **<UP/DOWN>** buttons or the **<SELECT>** knob to select a station and press **<OK>** to confirm. The device starts playing automatically.

**Note:** The reception quality of a station depends on factors such as weather, installation location and antenna orientation. If a station from the station list cannot be received, change the orientation of the antenna or the location of the radio. Stations that can no longer be received can be removed from the station list.



## 10.4 Delete stations that can no longer be received

Stations that can no longer be received can be deleted from the list. To do this, press the <MENU> key and select **"Prune invalid"**. Select **"This removes all invalid stations, continue?"** select **"YES"** and these stations will be deleted. Selecting **"NO"** takes you back into the menu without deleting the stations.

## 10.5 Favourites (memory locations)

20 memory locations (favourites) are available for storing DAB+ stations. To call up saved stations please briefly press the <PROG/FAV> button on the remote control and select the desired memory location with the <UP/DOWN> button. To load the station, press <OK>.

### 10.5.1 Storing DAB+ stations with the remote control:

Memory locations 1–10 can be assigned using the number buttons on the remote control. To do this, select the desired station and press and hold a number key on the remote control until **"Preset stored"** appears on the display. The memory locations can now be called up by pressing the remote control briefly.

### 10.5.2 Saving DAB+ stations in memory locations 11 - 20:

Select the desired station and press and hold the <PROG/FAV> button on the remote control until **"Save Preset."** appears in the Display. Now select a memory location from the list of station memories, and confirm the selection with the <OK> button. The **"Preset stored"** appears on the display. You can easily call up the station lists by briefly pressing the <PROG/FAV> button on the remote control. Use the <UP/DOWN> buttons to select a station and press <OK> to confirm.  
Note: The memory locations cannot be deleted, but can only be overwritten with other stations.

## 10.6 DRC (Dynamic Range Control):

Some DAB+ stations support DRC, which reduces the difference between loud and soft tones. The following settings are possible:

### DRC high:

Strong compression of the different volumes. The dynamic is greatly reduced.

### DRC low:

Low compression without much loss of dynamics

### DRC off:

There is no compression

To make the settings, proceed as follows:

Press the <MENU> button and select **"DRC"**. The settings for DRC can be changed in the following menu. The current setting is indicated by **"\*\*"**.

# 11. FM Radio

Select **"FM RADIO"** in the main menu to switch to FM reception.

## 11.1 Station search

You can automatically search for FM stations. To start the automatic station search, please press the **<OK>** button on the remote control until the process starts. The search stops at the next station found and the radio starts playing.

## 11.2 Search settings

You can use this function to determine whether only stations with a strong reception signal are taken into account. To do this, press the **<MENU>**, button and select **"Scan setting"**. In the following menu **"FM Station scan"** you can now answer the question **"Strong stations only?"** with **"YES"** or **"NO"**. The current setting is identified by **"\*\*"**.

## 11.3 Audio settings

For stations with poor reception, a slight quality improvement can be achieved by switching to mono reception. To do this, press the **<MENU>** button and select **"Audio setting"**. In the following menu **"FM poor reception"** you can now answer the question **"Listen in Mono only?"** with **"YES"** or **"NO"**. The current setting is identified by **"\*\*"**.

## 11.4 Auto presetting

This function starts an automatic station search and stores all stations found in the station memory. You can then call these up as described under **11.5**.

To do this, press the **<MENU>** button and select **'Auto preset'**. Select **'YES'** or **'NO'** in the subsequent **'Search and preset'** menu. The current setting is indicated by **'\*\*'**.

## 11.5 Favourites (memory locations)

20 memory locations (favourites) are available for storing FM stations. To call up saved stations please briefly press the **<PROG/FAV>** button on the remote control and select the desired memory location with the **<UP/DOWN>** button. To load the station, press **<OK>**.

### 11.5.1 Storing FM stations with the remote control:

Memory locations 1–10 can be assigned using the number buttons on the remote control. To do this, select the desired station and press and hold a number key on the remote control until **"Preset stored"** appears on the display. The memory locations can now be called up by pressing the remote control briefly.

### 11.5.2 Saving FM stations in memory locations 11 - 20:

Select the desired station and press and hold the **<PROG/FAV>** button on the remote control until **"Save Preset."** appears in the Display. Now select a memory location from the list of station memories and confirm the selection with the **<OK>** button. The **"Preset stored"** appears on the display. You can easily call up the station lists by briefly pressing the **<PROG/FAV>** button on the remote control. Use the **<UP/DOWN>** buttons to select a station and press **<OK>** to confirm.

Note: The memory locations cannot be deleted, but can only be overwritten with other stations.

## 12. Bluetooth audio

The BLUETOOTH function enables the wireless transmission of music files (audio streaming) to the radio. Smartphones, tablets or similar devices can be paired. To do this, select the source **"Bluetooth Audio"** in the main menu.

### 12.1 Pairing BLUETOOTH devices for the first time (pairing)

Make sure that the terminal device to be paired is switched on and BLUETOOTH is activated. Select the source **"Bluetooth Audio"** in the main menu. The **"Bluetooth Discoverable"** appears on the display. Now open the BLUETOOTH settings on the terminal device to be paired and start searching for available BLUETOOTH devices there. Select **"M-9500S"** and start the pairing process. After successful pairing, **"Connected"** appears on the display. Now the music playback can be controlled via the terminal. To do this, use the music App of your choice.

Basic operation of play/pause and skip forward/backward is possible using the corresponding buttons on the remote control.

Note: Some terminal devices require a PIN code when connecting, then enter **"0000"**.

### 12.2 Automatic connection after pairing has already taken place

If the source switches **"Bluetooth Audio"** or the radio is switched off, the BLUETOOTH connection is disconnected. If the radio is switched on again or switched back to the **"Bluetooth Audio"** source, an automatic connection is established.

**Note:** If an automatic connection is not possible, please proceed as follows:

Press the **<MENU>** button and select **"View details"**. Then open the **"Paired Device List"**, to select and pair the desired terminal device. Press the **<OK>** button to establish the connection and **"Connected"** appears briefly on the display.

### 12.3 Pair another terminal device

To connect another terminal device to the radio, please press the **<MENU>** button and select **"Set up Bluetooth"**. This will disconnect the current connection.

Now proceed as when you first connect a terminal device. Afterwards, this terminal device is also saved in the list of paired devices and can be selected via the corresponding menu (see above). A maximum of 8 devices can be saved.

### 12.4 Interrupting the BLUETOOTH connection

If you want to interrupt the connection to a paired device, please press the **<BT PAIR>** button on the remote control. The radio then switches back to pairing mode.

## 13. Connecting external devices

### 13.1 Optical In

Digital audio signals from external devices e.g. TV, BLURAY-Player etc. can be played back via this input. Connection is made via a commercially available optical audio cable with Toslink connector. To playback, please select the source "**Optical In**" in the main menu.

### 13.2 Line In

External devices such as MP3 players, DVD players or game consoles can be connected to the line in connection to play music. To do this, please select the source "**LINE IN**" in the main menu.

### 13.3 Subwoofer

An active Subwoofer can be connected to the "**SUB**" connection on the back side of the device. You must control the transition frequency and the base level on the Subwoofer.

### 13.4 Headphone

Use a commercially available headset with 3.5 jack plug. To prevent possible hearing damage, do not listen at high volume for long periods.

## 14. Snooze function

With this function you can switch the radio to standby mode automatically after a set period of time. You can choose between 15, 30, 45 or 60 minutes, "**Sleep OFF**" deletes the previously set time period. To do this, press the **<MENU>** button while the audio source is selected and select "**Main menu**". Use the **<UP>** or **<DOWN>** to navigate in the menu and select "**Sleep**". Use the **<UP>** or **<DOWN>** keys in the "**Set sleep time**" menu to select the desired time period and confirm with the **<OK>** key. Exit the menus again with the **<MENU>** button.

The remaining time is shown in the bottom left of the display, with minutes running backwards.

## 15. Alarm clock

This radio has 2 individually adjustable alarm times. Press the **<ALARM>** button on the remote control and select "**Alarm 1**" or "**Alarm 2**" to make the settings. Alternatively, you can also call up the alarm clock from the main menu. In standby mode, the saved alarm clocks of the **<ALARM>** button can be activated and deactivated. The following options are available for programming the alarm clock:

### 15.1 Enable:

Select here on which days the alarm should be activated. The following selection is available:

**Off/Daily/Once/Weekends/Weekdays**

Select "**Off**" to deactivate an activated alarm clock.

Upon selecting the "Once" option you will be directly asked for data and alarm time. Select the numbers with the **<UP>** or **<DOWN>** buttons and confirm with the **<OK>** button.

### 15.2 Time:

Set the hours first with the **<UP>** or **<DOWN>** buttons and then the minutes after pressing the **<OK>** button.

### 15.3 Mode:

Here you set the audio source with which you want to wake up. The following selection is available:  
**Buzzer/Internet radio/DAB/FM/CD/USB**

### 15.4 Preset:

The station with which to wake up is specified here. The station last listened to or the stations saved in the favourites are available here. Does not apply to buzzer mode, CD, USB.

### 15.5 Duration:

Set the desired alarm duration here. You can select between 15, 30, 45, 60, 90 or 120 minutes.

### 15.6 Volume:

Set the desired alarm volume here.

### 15.7 Save:

Once you have made all the settings, please press the **<OK>** button to save the settings.

An activated alarm clock is shown with an alarm symbol and the number of the active alarm clock at the bottom left of the display. In standby mode you can also see the set alarm time.

### 15.8 Switching off the alarm clock after waking up

To switch off the alarm clock until the next alarm cycle, please press the **<STANDBY>** button on the device or on the remote control **"Alarm off"** appears briefly on the display. Please press the **<OK>** button if you want to interrupt the alarm function only for a few minutes (snooze). You can set the alarm delay by pressing the button in steps 5, 10, 15 and 30 minutes and extended it again and again. After a short time, the radio automatically switches back to **"Standby"** and the time remaining until waking up again is displayed next to the flashing alarm symbol.

**Note:** The saved wake-up times are retained in the event of a power failure.

## 16. System settings

In the system settings you can change the settings of the radio and call up important information about the radio.

### 16.1 Equalizer

With the equalizer you can adjust the sound of the radio to your liking. For this, you can select from preconfigured settings. Please proceed as follows:

Press the **<MENU>** button and select **"System Settings"** and then **"Equalizer"**. You can select a sound profile with the **<UP>** or **<DOWN>** buttons and then confirm with **<OK>**. The following profiles are available:

#### **Powerful/Clear/Bright/Warm/Balanced**

The sound can also be adjusted to taste using the **<BASS>** and **<TREBLE>** knobs.

#### 16.1.1 Audio stream quality

Select the desired level of audio quality (low, normal or high) for the available streaming service. The actual bit rate for each level depends on the service used.

## 16.2 Network settings

### 16.2.1 Network wizard

The network assistant helps to connect the radio to the Internet. To call it up, please proceed as follows:

Select the item **"Network"** in the **"System Settings"** menu and then confirm **"Network wizard"**. The radio now starts a search for available WLAN connections and then lists them. The various networks can be selected using the **<UP>** or **<DOWN>** buttons and the **<SELECT>** knob. At the end of the list there is the option to select **"[Rescan]"** or **"[Manual config]"**.

### 16.2.2 Wireless network connection (WLAN)

Depending on the network, you have several options to choose from to connect to the network. Networks that support a WPS connection (Wi-Fi Protected Setup) are identified in the list by the preceding designation **"[WPS ...]"**. Other connections are open networks or connections that are protected by the PSK method = pre-shared key (previously agreed key).

**Note:** An active network connection is indicated by a white symbol at the bottom right of the display. If no connection is active, this symbol is crossed out in red.

### 16.2.3 WPS/PSK/Open connection

A WPS connection enables the radio to be connected to your network in a simple yet protected manner. There are two options available. Establishing the connection through **PBC = Push-Button-Configuration (configuration at the push of a button)** or by the PIN procedure, in which the web interface of your router prompts you to enter a randomly generated sequence of numbers.

### 16.2.4 Setup using PBC

Select the desired network **"[WPS ...]"**. Then select the **"Press button"** option with **"WPS menu"** and confirm. Now press the WPS button on your router or access point (AP). Please refer to the operating instructions of your router or AP for the exact procedure. Alternatively, the process can also be started in the **"Internet Settings"** menu under **"PBC WLAN Structure"**. Follow the instructions on the display.

### 16.2.5 Setup using a PIN

Select the desired network **"[WPS ...]"**. Then use the **"WPS menu"** to select and confirm the **"PIN"** option. The radio now generates an 8-digit code, which you should confirm with the **<OK>** button and then enter the number via the user interface of the router or AP. Please refer to the Router or AP manual for more information.

### 16.2.6 Skip WPS/Setup using PSK (pre-shared key)

Select **"Skip WPS"** to establish the connection using the network key. In the case of networks without WPS support, you can go directly to the input mask. Now enter the key and confirm it with the **"OK"** button. If the entry is correct, the radio connects to your network and establishes an Internet connection.

### 16.2.7 Open connection

We recommend that you do **not** connect to an open network. If the network you have selected is not encrypted, you can confirm this with the **<OK>** button. Then the internet connection is established.

## 16.2.8 Manual network connection setup

If DHCP is active, please proceed as follows:

Please select the menus **"Network"** -> **"Manual settings"** -> **"Wireless"** -> **"DHCP enable"**. Then enter the full SSID (network name) and confirm it with the **"OK"** button. Now choose the appropriate encryption method.

Please refer to the configuration of the router or AP. Depending on the method selected, the network key is now entered and confirmed with the **"OK"** button.

## 16.2.9 If DHCP is inactive, please proceed as follows:

Please select the menus **"Network"** -> **"Manual settings"** -> **"Wireless"** -> **"DHCP disable"**. Now enter the information for **"IP address"**, **"Subnet mask"**, **"Gateway address"**, **"Primary DNS"** and **"Secondary DNS"**. The values can be set using the <UP> or <DOWN> on the remote control or the <SELECT> knob. Use the <OK>, <LEFT> or <RIGHT> to select the individual number. Then proceed as described under **"DHCP enable"**.

## 16.3 Show network settings

In this menu you will find all settings of the network profile currently in use. To do this, select the **"View settings"** menu in the **"Network"** menu. The values can be displayed using the <UP> or <DOWN> on the remote control or the <SELECT> knob.

## 16.4 Network profile

Here you can see the list of network profiles saved on the radio. If you have created several profiles, choose the one closest to the corresponding router or AP.

You can delete network profiles that are no longer required by pressing the <UP> or <DOWN> button on the remote control or the <SELECT> knob to select the profile to be deleted and confirm with the <OK> button. The active network profile is marked with **"\*\*"**.

**Note:** The active network profile cannot be deleted.

## 16.5 Clear network settings

In this menu you can delete the network settings of the current profile. To do this, select the **"YES"** button and confirm your entry with the <OK>. Selecting the **"NO"** button cancels the process.

## 16.6 Keep network connected

This menu is used to set whether the WLAN connection to the network should be maintained in standby mode. This enables you to switch on the radio using the UNDOK App (see page 26). Power consumption in standby mode is slightly higher in networked mode. Select the **"YES"** or **"NO"** button for the setting and confirm the entry with the <OK>.

## 17. Time settings

You can set the settings for time and date in the **"Time/Date"** menu. The following options are available:

### 17.1 "Time/Date Settings" menu

The time and date can be set here manually. The values can be changed using the **<UP>** or **<DOWN>** button on the remote control or the **<SELECT>** knob. Use the **<LEFT>**, **<RIGHT>** or **<OK>** button to select the individual blocks of numbers and to save the values.

### 17.2 "Auto update" menu

Here you can specify the source from which the time and date should be updated. The following options are available:

<b>Update from DAB:</b>	Time and date are updated via DAB.
<b>Update from FM:</b>	The time and date are updated via FM.
<b>Update from network:</b>	The network updates the time and date.
<b>No update:</b>	Time and date must be set manually.

The currently selected option is marked with **"\*\*"**.

### 17.3 "Set format" menu

In this menu you can specify whether the clock should be displayed in 12 or 24 hour format. Select with the **<Left>** or **<Right>** button, the confirmation is made with the **<OK>** button. The currently selected option is marked with **"\*\*"**.

### 17.4 "Set timezone" menu

In this menu you can specify the desired Time Zone. Select with the **<UP>** or **<DOWN>** button, the confirmation is made with the **<OK>** button. The currently selected time zone is marked with **"\*\*"**.

### 17.5 "Daylight savings" menu

Here you can specify the setting for daylight saving / standard time. Select the current setting for Summer time with the **<LEFT>** or **<RIGHT>** button, then confirm with the **<OK>** button. The current setting is marked with **"\*\*"**.

## 18. Language

In the **"Language"** menu you can set the menu language of the radio. If you have started up the device with the **setup wizard**, the device language has already been set there. To select a language, please use the **<UP>** or **<DOWN>** buttons and confirm this by pressing the **<OK>** button. Alternatively, the selection can also be made with the **<SELECT>** knob.

### The following languages are available:

English, Čeština, Dansk, Nederlands, Suomi, Français, Deutsch, Italiano, Norsk, Polski, Português, Slovenská, Español, Svenska, Türkçe



## 19. Factory reset

To reset the radio to the delivery state, please select **"YES"** in the menu **"Factory reset"**. **Attention: All previous settings are deleted.**

If you select **"NO"** the process is cancelled.

**Note:** Be sure to reset the radio to the factory settings before you pass it on (e.g. to sell, give away or dispose of).

## 20. Software update

In this menu you can check whether a software update is available for the radio.

If you select **"Auto-check setting"** the radio automatically checks the availability of new software updates on a regular basis.

Select the menu item **"Check now"** to search for a new version. If newer software is found, please select **"YES"** to install it or **"NO"** to cancel the update. If **"YES"** the radio restarts to carry out the process.

Then the software is downloaded and you are asked with **"Proceed"** whether the update should be carried out. Please choose **"YES"** if you consent or **"NO"** to cancel the update. The **"Warning: do not remove power"** and the software version to be installed flash alternately. When the process is complete, **"Update completed"** appears on the display and you can confirm the process with the **<OK>** button.

You can check the version number of the installed software under the **"System settings"** menu under **"Info"**.

**Attention!**

Make sure that there is a stable power supply before you start a software update.

An interruption during an update can cause irreparable damage to the radio!

## 21. Setup wizard

You can start the setup wizard again in the **"Setup wizard"** menu. To do this, proceed as described under **"4.12 Starting the setup wizard"**.

## 22. Info

In this menu you will find the version number of the current firmware, among other things. Have this ready if you want to contact customer service.

## 23. Backlight

The display illumination can be programmed in 3 brightness levels. The following settings can be made in the **"Backlight"** menu:

**"Timeout"**: Time until the display is set to the **"Dim level"** lighting level.

Choices: **"On/10/20/30/45/60/90/120/180 seconds"**

**"ON"** means that the radio always remains in the brightness level of the **"On level"**.

**"On level"**: Brightness of the display when the radio is switched on.

Choices: **"High"/"Medium"/"Low"**

**"Dim level"**: Brightness adjustment for operation and standby.

Choices: **"Medium"/"Low"/"Night"/"Off"**

## 24. UNDOK - control of the radio via App

The UNDOK application (App) developed by Frontier Silicon gives you full control of radios and speakers on your smartphone.

Regardless of whether you are setting up the device for the first time, configuring Equalizer or managing your favourite channels - UNDOK offers you all the features on your smartphone or tablet and offers you even more convenience. Download the UNDOK App from the Google Play Store or the Apple App Store.

### Initial setup of the device with UNDOK

When switched on for the first time, or after the radio has been set to the factory settings, the radio is in SETUP mode and a so-called micro-access point (own WLAN network) is generated. This allows your smartphone or tablet to connect to the radio.

### Set up with Android

Make sure the radio is in SETUP mode. Open the UNDOK-APP on your smartphone or tablet and select the menu item **"Set up audio system"**.

Press **"NEXT"** and select the menu item **"SELECT THE ACCESS POINT"**.

The WLAN menu of the terminal device opens up, select the **"M-9500S"** network there. After connecting, **"Connected to M-9500S"** appears in the App. Follow the further instructions of the App to set up the radio completely. Finally, the radio connects to the network and you can now operate the device with the UNDOK APP by pressing **"Use my audio system"**.

### Set up with iOS

Make sure the radio is in SETUP mode. Open the UNDOK APP on your iPhone or iPad, and select the menu item **"Set up audio system"**.

Press **"NEXT"** and select the menu item **"SELECT THE ACCESS POINT"**.

The WLAN menu of the terminal device opens up, select the **"M-9500S"** network there. After connecting, **"Connected to M-9500S"** appears in the App. Follow the further instructions of the App to set up the radio completely. Finally, the radio connects to the network and you can now operate the device with the UNDOK APP by pressing **"Use my audio system"**.

### 24.1 Controlling the radio with OKTIV App

Alternatively, once the radio is set up, you can also use the free OKTIV App from Frontier Silicon to control the device. However, currently an initial setup of the M-9500S is still not possible with this App.

More detailed information on downloading for iOS or Android is available at:

**<https://www.frontiersmart.com/product/oktiv/>**

## 25. Troubleshooting

Please check the following points in case of malfunctions:

### No sound

- Plug in the power cord properly.
- Adjust the volume to the correct level.
- Make sure the desired source is selected.

### The system does not respond at the touch of a button

- Unplug the power cord and reconnect it.

### Problems with radio reception

- Reorient the antenna.
- Find a more suitable location.
- Other electrical appliances interfere with the reception.
- Location not suitable for receiving DAB + signals.

### A network connection cannot be established

- Check the WLAN function, make sure the password is correct.
- Try to set an IP address on the device.
- Activate the DHCP function on the router and re-establish the connection on the device.
- A firewall is activated in the network - set it so that access is possible.
- Place the radio closer to the router or AP.
- Restart the router or AP.

## 26. Maintenance and care

### Cleaning the housing

Use a cloth lightly moistened with a mild detergent. Do not use detergents containing alcohol, ammonia or scouring agents.

### Cautions on condensation

Condensation (dew) may form inside the unit if there is a significant difference between the temperature of the unit and the ambient temperature. If condensation occurs inside the unit, proper function is no longer guaranteed. In this case, you have to wait a few hours; After the moisture has dried, the device can be reused.

### Special care should be taken in the following circumstances

When the unit is moved from one place to another at a much higher or lower temperature, or when the humidity at the installation site increases, etc.

### Handling of CDs

Hold the CD so that you do not touch the signal surface. (The unprinted side is the playing side.)

Use only use CDs with  marking. In some cases, CDs with this marking may not play back properly.

## Worth knowing about USB devices

### Notes on using a USB device

This device is capable of playing audio files stored on a flash memory or digital audio player if these devices have a USB port (these devices are referred to as USB Devices in this document).

The following restrictions apply to the usable USB Devices:

### Usable USB Devices

- USB Devices that belong to the USB Mass Storage Class.
- USB Devices whose maximum power consumption is 500 mA or less.
- USB Mass Storage Class: USB Devices that the PC recognises as external storage without the need for a special driver or application software.
- Consult your dealer if you are not sure whether your USB device complies with the specifications for the USB Mass Storage Class.
- Using a USB device that is not supported may result in erroneous playback or display of the audio file.

Even if you use a USB device that meets the above specifications, audio files may not play back properly depending on the type or condition of the USB device.

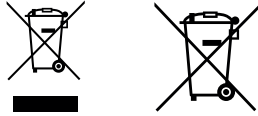
### Station suggestion for Internet Radio

If you cannot find an internet station or podcast in the Station List, you can create a ticket in order to add **<https://srssupport.frontier-nuvola.net/portal/en/newticket>**

If the submitted link of the station or podcast is supported the portal service provider adds it to the station list.

## 27. Disposal

Disposal of used electrical and electronic equipment and batteries.



The (crossed-out wheeled bin) symbol on the product or its packaging indicates that this product must not be handled as normal household waste, but handed in to a collection point managed by public waste management authorities or to a collection point set up by the manufacturer or distributor, free of charge.

The owners of electrical devices should usually separate the waste batteries and waste accumulators which are not firmly enclosed in the waste devices from these waste devices before handing them over to collection points. This does not apply if the waste devices are prepared for recycling with the participation of a public waste management authority. By helping to properly dispose of this product, you are protecting the environment and the health of your fellow human beings. Improper or incorrect disposal endangers the environment and health. For more information on the recycling of these electrical devices and batteries, please contact your local authority or your municipal waste disposal companies.

Disposal instructions for consumers in Germany:  
<https://www.e-schrott-entsorgen.org/>

Disposal instructions for consumers in Austria:  
<https://www.elektro-ade.at/>

Disposal instructions for consumers in Ireland:  
<https://www.mywaste.ie/>

Disposal instructions for consumers in United Kingdom:  
<https://www.recyclenow.com/>

Disposal instructions for consumers in France:  
<https://www.quefairedemesdechets.fr>

**The end user is responsible for deleting data on the old device using the menu item "Factory setting" before disposal (see Chapter 19).**

## 28. Technical Specifications M-9500S

Power supply	AC voltage ~ 100 – 240 V
AC input frequency	50/60 Hz
Power consumption	40 W
Power consumption in standby mode	0.9 W
Power consumption in networked standby mode	0.9 W
<b>Tuner FM/DAB +</b>	
DAB tuning range BAND III	174.928 MHz – 239.200 MHz
FM tuning range	87.50 MHz – 108.00 MHz
<b>CD mode</b>	
Signal-to-noise ratio (A filter)	≥ 65 dB
Dynamic Range	≥ 60 dB
<b>Network connection (WLAN)</b>	
Supported networks	WiFi IEEE 802.11a/b/g/n
Supported frequency ranges	WiFi: 2.412 - 2.472 GHz, 5.18 - 5.32 GHz, 5.50 - 5.70GHz, 5.745 – 5.825GHz
Maximum transmission power	WiFi 2.4 G: 13.0 dBm/WIFI 5G: 13.0 dBm WiFi 5.8G: 13.0 dBm
Supported encryption	WEP, WPA, WPA2 (PSK), WPS
Supported streaming formats	MP3, AAC/AAC + (up to 48 kHz, 16 bit)
<b>USB devices</b>	Playable files: MP3 Compatible with USB1.1 full-speed, FAT16, FAT32 Max. 500 mA, Bit rates: 32 kBit/s to 320 kBit/s
<b>BLUETOOTH</b>	
BLUETOOTH version	V5.2
Power class	Class 1
Maximum transmission power	4.3 dBm
Reach	about 10 meters (may vary depending on the environment)
Frequency range	2.402 GHz – 2.480 GHz
BLUETOOTH profile	A2DP (Advanced Audio Distribution Profile, AVRCP (Audio/Video Remote Control Profile)
<b>Connections</b>	
Headphone	3.5 mm jack socket
Line In	3.5 mm jack socket
Optical In	Toslink
Subwoofer out	Cinch / 25 - 250 Hz ±3 dB
<b>Amplifier part</b>	
Output capacity	2 x 50 W / 6 ohms
Frequency range	60 Hz - 20 kHz
<b>Dimensions and weight</b>	
Main unit	(W x H x D) 260 x 116 x 260 mm/2.0 kg
Speaker	(W x H x D) 172 x 263 x 242 mm / 2.4 kg per piece.
Temperature range	5°C to 45°C

## 29. Guarantee

Dear customer,

thank you for purchasing this Kenwood product. If this product shows defects in material or workmanship under normal operating conditions, we will remove these free of charge or replace the device in accordance with the following warranty provisions.

Please keep this warranty card in a safe place.

Kenwood guarantees this device for a period of two years from the date of purchase as shown on the invoice or sales receipt from the Kenwood dealer.

This warranty covers material and workmanship defects. We reserve the right to replace the product if cost-efficient repair is no longer possible. Costs for packaging and installation as well as costs and risks in connection with the actual repair are not included in the warranty and will be invoiced.

Conditions

A. To assert warranty claims, in addition to submitting this warranty card, the following information is required:

- (a) Your name with full address
- (b) The receipt or invoice from a retailer based in an EU country indicating the original date of purchase.
- (c) The full name and address of the retailer from whom the product was purchased.
- (d) The serial number and model name of the product.

Kenwood reserves the right to refuse warranty service if the aforementioned information is missing or if changes have been made to the product since it was first purchased.

B. At the time of delivery to the retailer, this product complies with all standards and safety regulations applicable in the country of destination. Modifications required to operate the device in countries outside the country of destination are not covered by the aforementioned warranty conditions. In addition, we do not accept any liability for work in this context or for damage to the product resulting from such work.

If the product is used in a country for which it was not designed and manufactured, warranty work will only be carried out if the user bears the costs for upgrading the device to nationally applicable standards and safety regulations.

In addition, if the product differs from the products sold by the official importer and if spare parts are not available for the repair of this product, the user must bear the costs of transporting the device to and from the country of purchase.

The same applies if no warranty services can be offered in the country concerned for other legitimate reasons.

C. The following are excluded from the warranty:

- (a) Changes to the product, as well as normal maintenance and adjustment work, including the regular checks mentioned in the Operating Instructions.
- (b) Damage to the product caused by inadequate or improper work if this work was carried out by third parties who are not authorised to carry out warranty services on behalf of the manufacturer.
- (c) Damage caused by negligence, accidents, changes, improper installation, defective packaging, incorrect operation or the use of incorrect spare parts for repairs.
- (d) Damage caused by fire, water damage, lightning strikes, earthquakes, inadequate ventilation, force majeure, connection to incorrect mains voltage or other causes for which Kenwood is not responsible.
- (e) Damage to speakers due to overloading. Damages to other items that are not part of the product, such as: DVDs, compact discs, USB storage media, smartphones, etc.
- (f) Consumable or wearing parts that have to be replaced as part of normal customer service, such as: Batteries, rechargeable batteries, lamps, etc.
- (g) All products in which the serial number(s) has been completely or partially removed, changed or made illegible.

This warranty can be claimed by anyone who has purchased the product legally.

In accordance with the aforementioned warranty conditions, the product will be repaired or replaced free of charge. This right does not in any way affect other rights of the user within the framework of the applicable legal provisions.

Repairs or replacements do not extend the warranty period.

Further claims are excluded, in particular those for conversion, reduction or compensation.

**Contact address:**

**JVCKENWOOD U.K. Limited**

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# KENWOOD