

DAB+ link M11 | white mono
DAB+ link M11 | black mono
DAB+ link S12 | white stereo
DAB+ link S12 | black stereo

KATHREIN
Digital Systems GmbH

Operating Manual



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1. PREFACE

Valued customer,
thank you for choosing this product. Please read these instructions carefully
and keep them for future reference.

This operating manual is part of the device! If you sell or pass on the device, please make sure you also hand over the operating manual.

1.1 Intended Use

This product is a consumer electronics device.

This device serves as a receiver of DAB+, FM and internet radio signals and plays audio files from a USB data carrier, Bluetooth device or network drive as well as recording audio files onto a USB data carrier.

Any other operation or use of the device is considered improper and can lead to personal injury or property damage.

Do not use this device for any other purpose.

Only use the device indoors.

The device is intended for private, non-commercial use only.

We assume that the user has some general knowledge about using electronic entertainment equipment. Liability is excluded in the event of improper use.

2. SAFETY INSTRUCTIONS

SYMBOL

MEANING



DANGER!

This signal indicates a hazard with a high level of risk which, if the instruction is not observed, will result in death or serious injury.



WARNING!

This signal indicates a hazard with a medium level of risk which, if the instruction is not observed, may result in death or serious injury.



CAUTION!

This signal indicates a hazard with a low level of risk which, if the instruction is not observed, may result in minor or moderate injury.

NOTE!

This signal warns the user of possible material damage and references special descriptions for the operation of the device.



This symbol indicates danger.

SYMBOL

MEANING



Protection class II

Electrical devices that fall under protection class II have reinforced or double insulation to the amount of the rated insulation voltage between active and accessible parts (VDE 0100 part 410, 412.1). They usually have no connection to the protective conductor. Even if they have conductive surfaces, they are protected from contact with other live parts by reinforced or double insulation



Products labelled with this symbol meet the requirements of the guidelines of the European Community.

Abb. 1



Abb. 2



These symbols indicate the polarity of the plug for devices with hollow plugs. A distinction is made between 2 variants

Fig. 1: Outside plus / inside minus

Fig. 2: Inside plus / outside minus



Devices with this symbol may only be operated indoors in a dry environment.

2.1 Safety Instruction



WARNING!

Check the device before use.

The device must not be used if it is defective or damaged.

Risk of injury

Risk of injury to children and people with reduced physical, sensory or mental ability (e.g. disabled people, elderly people with limited physical and mental ability) or a lack of experience and knowledge.

- Always keep the device out of the reach of children.
- This device can be used by children aged 8 years and above and persons with reduced physical, sensory or mental ability or lack of experience and/or knowledge if they are supervised or have been given instruction concerning safe use of the device and understand the hazards involved.
- Never let children use the device unsupervised.

Danger of suffocation!

- Packaging material is not a toy!
- Do not store the packaging material used (bags, polystyrene pieces etc.) within the reach of children.
- Children must not play with the packaging. There is a risk of suffocation, especially with packaging films

2.2 Operational Safety



DANGER!

Risk of injury!

Risk of injury from electric shock from live parts.

There is a risk of electric shock or fire due to accidental short circuits.

- Check the device for damage before each use.
If you notice visible damage or if the device shows visible damage, do not use it anymore.
- If you discover a technical or mechanical problem, please contact KATHREIN Service.
- Only use the power adapter provided! Never use any other power adapter.
- Never open the device casing.
- Immediately disconnect the device from the power in the event of any malfunction. To do so, immediately unplug the device.
- Only use replacement parts and accessories that have been supplied and approved by us.
- Do not physically alter the device and do not use any spare parts or additional devices that were not explicitly approved or provided by us.
- Do not use the device in potentially explosive environments. These include, for example, fuel storage areas, petrol stations, or areas in which solvents are stored or processed.
- Do not use the device in areas where the air is contaminated with particles (e.g. flour or wood-chip dust)

Operation errors may appear in the form of the device becoming hot or

smoke developing from the device or the power unit. Loud or unusual noises can also be a sign of a malfunction.

- Ziehen Sie in diesem Fall sofort das Netzteil aus der Netzsteckdose.
- Fassen Sie das Netzteil ausschließlich am Gehäuse an.

Ziehen Sie das Netzteil niemals am Kabel aus der Steckdose.

After a malfunction, the device must not be used until it has been checked or repaired by a qualified person.

- If you bring the device from a cold to a warm environment, moisture can form inside the device.

In this case, wait about an hour before using it.

- Unplug the device from the power socket if you are absent for a longer period and during thunderstorms.

Make sure that contact with moisture, water or spray is avoided and that no objects filled with liquids - e.g. vases - are placed on or near the device or its power adapter.

- If foreign bodies or liquids get into the device or the power adapter, pull the power adapter out of the socket immediately. Have the device checked by qualified personnel before you use it again. Otherwise, there is a risk of electric shock.
- Make sure that the device and the power adapter are not exposed to dripping or splashing water and that there are no naked flames (e.g. burning candles) near the device or the power supply.
- The power adapter must never be touched or handled with wet or damp hands.

2.3 Connecting the Device

- Only connect the device to a properly installed, earthed and electrically protected socket.
- Please ensure that the power source (socket) is easily accessible.
- Do not kink or crush any cable connections.
- Before using the device, check whether the voltage specification on the device corresponds to local mains voltage. The information on the power adapter must correspond to the local mains supply.
- Only connect the radio to a properly installed socket with 220 – 240 V AC at 50 – 60 Hz.
- Place the radio on a firm, level surface.
- The device consumes power in standby mode. To completely disconnect the device from the mains, the power adapter must be unplugged from the socket.

2.4 Protect the device from damage

NOTE!

- Unfavourable environmental conditions such as moisture, excessive heat or lack of ventilation can damage the device.
- Only use the device in dry rooms.
- Avoid the direct vicinity of: heat sources such as radiators, naked flames such as candles, and devices with strong magnetic fields such as speakers.

Do not expose the device to extreme conditions, e.g. direct sunlight, high humidity, moisture, extremely high or low temperatures or naked flames.

- Ensure that there is sufficient distance from other objects so that the device is not covered and adequate ventilation is always guaranteed.
- Avoid direct sunlight and unusually dusty locations.
- Do not place any heavy objects on the device or the power adapter.
- Do not use the device in potentially explosive environments. These include, for example, fuel storage areas, tank facilities, or areas in which solvents are stored or processed.
- Do not use the device in areas where the air is contaminated with particles (e.g. flour or wood-chip dust)

2.5 Risk of Injury



WARNING!

Excessive sound pressure when using earphones or headphones can cause hearing damage or loss.

Using earphones or headphones at a high volume for a long period of time can cause injury to the user.

Please check the volume before putting the earphones or headphones in or onto your ears.

Set the volume to low and only increase the volume enough that you still find it comfortable.

2.6 Information on the radio interface

NOTE!

The device generates an electromagnetic field.

Please pay attention to notices in your area that prohibit or restrict the operation of electronic devices.

This may be the case, for example, in hospitals, at petrol stations and tank facilities or at airports.

If corresponding warnings apply, disconnect the device from the power immediately.

The components contained in the device generate electromagnetic energy and magnetic fields. These can affect medical devices such as pacemakers or defibrillators.

Therefore, please maintain sufficient and safe distance between the radio and medical devices.

If you have reason to believe that the radio is causing interference with a medical device, immediately turn off or unplug the radio.

2.7 Handling Batteries

In principle, only use the type of battery included in the delivery.



DANGER!

Risk of injury!

- Improper handling of batteries poses a risk of injury!
- Never open batteries, short-circuit them or throw them into flames.
- Never charge batteries. Attempting to charge batteries can create a risk of explosion.
- The polarity must be correct! Make sure that the plus (+) and minus (-) poles are inserted correctly to avoid a short circuit.
- Only use batteries specified for this product.
- Remove the batteries from the device if it is not going to be used for a long time.
- Remove exhausted or leaking batteries from the device immediately.
- If batteries have leaked, there is a risk of burns if the liquid comes into contact with the skin.
- Keep both new and used batteries out of the reach of children
- There is a risk of internal injury if batteries are swallowed. The battery acid in the batteries can cause injuries if it comes into contact with the skin.
- In the event of accidental ingestion or if there are signs of skin burns, rinse the affected areas with plenty of clean water and seek medical attention immediately.

Batteries are not toys!

- Always keep new and used batteries away from children.
- Remove leaking batteries from the device immediately and clean the contacts before inserting new batteries.



WARNING!



There is a risk of explosion if batteries are used improperly!

- Only use new batteries of the same type.
- Please never use new and old batteries together in one device.
- Pay attention to the correct polarity when inserting the batteries.
- Never charge batteries.
- Batteries should be stored in a cool and dry place.
- Never throw batteries into fire.
- If the device is not used for a long time, please remove the batteries from the device.
- Never expose batteries to extreme heat or direct sunlight.
- Batteries must not be deformed or opened.
- Stop using the remote control if the battery compartment cover no longer closes properly.

2.8 Cleaning the Device

- Unplug the device prior to cleaning.
- Use a soft, dry cloth to clean the device. Please do not use any liquids to clean the device.
- Do not use any solvents or cleaning agents, as these may damage the surface or labelling.
- Children should not clean the device.

2.9 Legal Information

The device is intended for use in all European Union member states as well as Switzerland, Norway, Liechtenstein and Iceland.

The radio reception range meets the legal requirements for these countries.

If the device is to be operated in another country, the laws of the country of use must be observed.

3. SCOPE OF DELIVERY

Please remove all parts from the packaging and remove all packaging materials completely.

If one or more of the specified parts is missing, please contact:

KATHREIN Digital Systems GmbH

Eiselauer Weg 13

89081 Ulm, Germany

e-mail: support@kathrein-ds.com

Telefon: +49 731 270-909 70

Scope of delivery:

- Radio DAB+ link M11 | white mono,
Radio DAB+ link M11 | black mono,
Radio DAB+ link S12 | white stereo or
Radio DAB+ link S12 | black stereo
- Remote control
- Telescopic antenna
- External power adapter
- Operating Manual (German)
- Battery for the remote control, type CR 2025 / 3 V
(Already inserted in remote control and fitted with transport lock,
please remove this)

4. OVERVIEW OF THE CONTROLS



1. List

Displays a list of the 40 most recently selected radio stations.

2. Preset

Displays the favourite programme list.

3. Station memory slot 1/Play/Pause

In radio mode, switches to the 1st station memory slot.

Starts or pauses playback in USB/media/UPnP/Bluetooth mode.

4. Station memory slot 2/STOP

In radio mode, switches to the 2nd station memory slot.

Stops playback in USB/media/UPnP mode.

5. Station memory slot 3/previous track

In radio mode, switches to the 3rd station memory slot.

Use this button to select the previous track or rewind in USB/media/UPnP/ mode.

6. Station memory slot 4/next track

In radio mode, switches to the 4th station memory slot.

Use this button to select the next track or rewind in USB/media/UPnP/ mode.

7. Sleep

Press this button to set a sleep timer. The radio switches to standby after the time period you have set.

8. Power button on/off

Press this button briefly to switch the device on or to standby.

9. Menu

Opens the device menu.

10. Mode

Switches between the radio's various operating modes (internet radio, local radio, FM, DAB+, Cloud music, UPnP, AUX, multimedia, Bluetooth).

11. REC/record

Starts a recording of the current radio programme on a connected USB storage device.

12. Back

This button takes you one step back in the menu.

13. Antenna connection

This is where you can screw in the antenna provided.

14. USB connection

Here, you can connect the device to a USB data carrier such as a USB hard drive or USB thumb drive to play music files from it.

15. Headphone connection

Insert headphones here to listen to the music being played on the radio through your headphones. If headphones are connected, music playback via the device's speakers will be interrupted.

16. AUX IN

Connect an external audio source here, such as an MP3 player, smartphone or tablet with a 3.5 mm AUX jack cable.

17. Power adapter connection

Connect the device with the power adapter (included) here.

5. REMOTE CONTROL

The radio can be controlled using either the buttons on the device or the remote control. The remote control is the more convenient and easier way to operate the device.



1. Standby button

Press this button to turn the device on or into standby mode.

2. Mode

Switch between the different modes. This button can be programmed with a different function (see „8.16 Changing the function of the MODE button“ on page 59)

3. Mute

Mutes the device.

4. EQ - Equalizer Funktion

Use this button to activate the equaliser function and change individual sound settings.

5. ↶ Zurück

This button takes you one step back in the menu.

6. Navigate up/down - right/left / volume VOL+ -

Use these buttons to navigate through the menu.

Use the ◀▶ buttons to decrease or increase the volume.

7. ENTER/OK

Use this button to confirm an entry or selection.

8. LIST/programme list

Use this button to view the radio programme list.

9. FAV+

Use this button to add a selected radio station to your favourites list.

10. Control and select the music track via USB, UPnP, media

⏮ Select previous track / fast rewind

■ Stops playback

⏸ Starts or pauses playback

⏭ Select next track / fast forward

11. INFO

Displays information about the current radio programme.

12. Menu

Use this button to view the device menu

13. • Rec

Starts a recording of the current radio programme to a connected USB storage device.

Hold the button for more than 2 seconds to activate the timer menu for recording a radio broadcast.

14. Numeric keypad

15. VOL + / VOL -

Use these buttons to increase or decrease the volume.

16. SLEEP

Press this button to set a sleep timer. The radio will switch to standby mode after the time you have set.

6. INSTALLATION

6.1 General operating instructions

- Switch the device on or off using the standby button on the device or the remote control.
- You can use the **VOL+** button on the remote control or turn the knob on the device to increase the volume.
- You can use the **VOL-** button on the remote control or turn the knob on the device to decrease the volume.
- You can use the **◀ ▶ ▲ ▼** buttons or the control knob to select menu items.
- Use the **OK** button on the remote control or press the knob on the device to confirm your selection.

6.2 Preparing the remote control

Remove the battery transport lock on the remote control. To do so, pull out the plastic tab on the battery housing in the remote control. This establishes battery contact.

To replace the remote control battery, open the battery compartment on the back of the remote control.

Pull the battery compartment out of the remote control.

Remove the battery and insert a new battery of the same type.



There is a risk of explosion if batteries are used improperly!
Please read the related safety information in Chapter „2.2 Operational Safety“ on page 11.

Pay attention to the correct battery polarity! Reinsert the battery compartment.

6.3 Antenna Connection

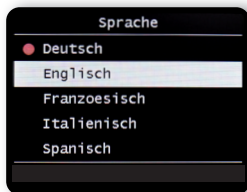
Screw the antenna provided into the antenna connection on the back of the device.

6.4 Power Connection

Connect the power adapter provided to the corresponding port on the back of the device. Now plug the power adapter into a 230 V socket. Turn on the radio using the standby button on the remote control or on the device. The device will turn on.

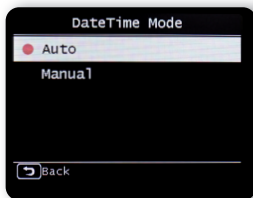


Use the ▲▼ buttons on the remote control to select the menu language. Use the OK button on the remote control to confirm your preferred menu language.



6.5 Date time mode

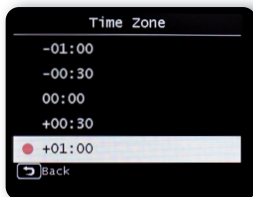
Select how the radio should synchronise the time here. Use the **▲▼** buttons on the remote control to make a selection. Use the **OK** button on the remote control or press the knob on the device to confirm your selection.



The device's factory setting is to automatically set the time. If the device is connected to the internet via the network, the time and date are automatically synchronised. You therefore do not have to set the time manually. You can change these settings at any time in the main menu under System.

6.6 GMT Time Zone

Select your time zone here. For Germany and most of Europe, select GMT + 1:00.

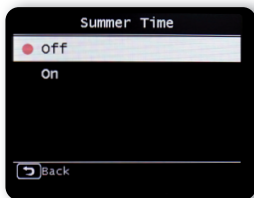


Use the **▲▼** buttons on the remote control to make a selection. Use the **OK** button on the remote control or press the knob on the device to confirm.

6.7 Daylight saving Time

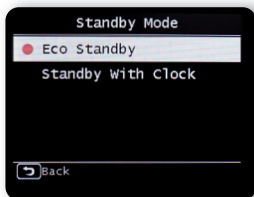
Switch on daylight saving time here if it currently applies.

Use the **▲▼** buttons on the remote control to make a selection. Use the **OK** button on the remote control or press the knob on the device to confirm.



6.8 Standby mode

Here, define whether the time should be displayed when the radio is in standby mode.



Use the **▲▼** buttons on the remote control to make a selection. Use the **OK** button on the remote control or press the knob on the device to confirm.

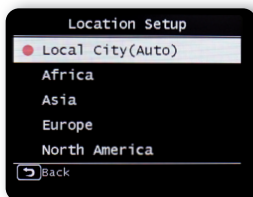
NOTE!

If 'Standby with clock' is selected, the device's power consumption will increase slightly.

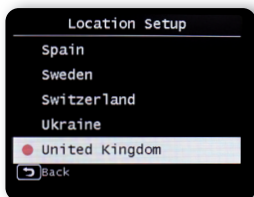
Please note that the alarm clock function is deactivated in ECO standby, as the time is not updated.

6.9 Location

Choose your continent and then your country in order to access internet radio broadcasts from your local stations.



Use the **▲▼** buttons on the remote control to make a selection. Use the **OK** button on the remote control or press the knob on the device to confirm.



6.10 WiFi/network selection

In the next step, you will be shown all the available WiFi networks that are within range of the device. Select the network you want to connect to and confirm by pressing the **OK** button. Enter the WIFI password.

Use the **▲▼** buttons on the remote control or the knob on the device to select a character, and use **►** to jump forwards.

Press **OK** to confirm.





Please note that the router registration process can take some time.

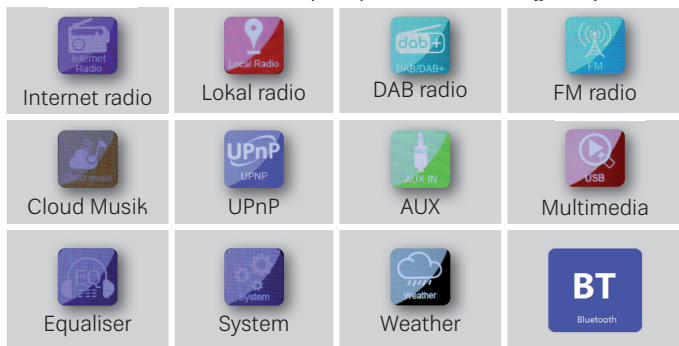
7. SETTINGS

7.1 General Operation

7.1.1 Menu button

Press and hold the Menu button on the device or remote control. Regardless of current device settings, this always returns you to the main menu.

Navigate the main menu using the ◀ ▶ buttons or the knob on the device. The main menu can be split up into the following sub-points:



You can use the arrow buttons ◀ ▶ or the control knob to select individual points within the menu.

Use the **OK** button on the remote control or the knob on the device to confirm your selection.

7.1.2 Back button

Using the back button  will always take you one step back.

7.1.3 List button

In radio mode, pressing the List button displays an overview of radio stations you have previously listened to.

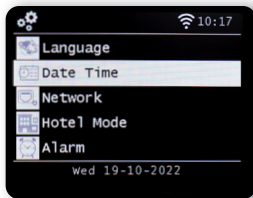
7.1.4 Mode button

You can use the Mode button to switch between the radio's various operating modes.

7.2 System

Press the **Menu** button on the remote control or the device and use the   buttons to select System in the menu.

Use the **OK** button on the remote control or press the knob on the device to confirm your selection. In this part of the menu, you can change individual device settings.

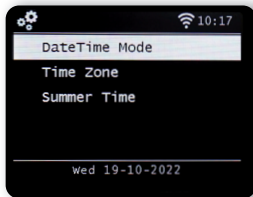


7.2.1 Language

Use the   buttons on the remote control to select the menu language. Use the **OK** button on the remote control to confirm your preferred menu.

7.2.2 Date time

Use the ▲ ▼ buttons on the remote control to make a selection. Use the OK button on the remote control or press the knob on the device to confirm.



The device's factory setting is to automatically set the time. If the device is connected to the internet via the network, the time and date are automatically synchronised. You therefore do not have to set the time manually.

Select how the radio should synchronise the time here.

7.2.3 Network

In order for the device to function as an internet radio, the radio must be connected to a network with internet access.

If you have not already done so in the initial setup, you can set up a network connection under this menu item.

Press the **MENU** button on the remote control or on the device and use the ◀ ▶ buttons on the remote control or the knob on the device to select System in the menu.

Use the **OK** button on the remote control or the knob on the device to confirm your selection.

Use the ▲ ▼ buttons on the remote control to select Network in the menu.



Use the **OK** button on the remote control or the knob on the device to confirm your selection.

Use the ▲ ▼ buttons on the remote control to select the network you want to connect to and confirm by pressing the OK button.

Enter the WiFi password. Use the ▲ ▼ buttons on the remote control or the knob on the device to select a character, and use ▶ to jump forwards.

Press **OK** to confirm.



Please note that the registration process can take some time.

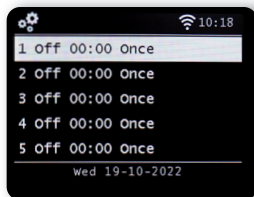
7.2.4 Alarm

The device can be used as a radio alarm clock.

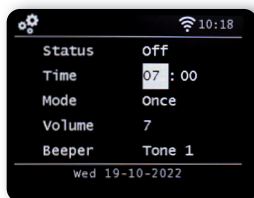
You can set up to 5 alarm times in this menu option.

To set an alarm, please proceed as follows:

- Press the **MENU** button on the remote control or on the device and use the **◀ ▶** buttons on the remote control or the knob on the device to select System in the menu.
- Use the **▲ ▼** buttons on the remote control or the knob on the device to select Alarm in the menu and press the **OK** button on the remote control or the knob on the device to confirm.



Select one of the 5 available alarms and confirm by pressing the knob on the device or the **OK** button on the remote control.



Activate the alarm clock via the Status line.

In the next line, set the time for the alarm. Use the number pad on the remote control or the knob on the device.

Your entries must be confirmed by pressing the **OK** button.

Set the repetition intervals in the Date line. You can decide whether the alarm should be activated at the set time once, daily, on weekdays or on weekends only.

In the next line, set the volume for the alarm.

In the Tone line, you can choose a sound or a DAB+, internet or FM radiostation to play.

Please note that at least one favourite station must be saved for the selected reception mode if choosing the radio station option.

To stop an alarm, press the  button on the remote control or the device.

To activate the snooze function, press any button on the device (apart from the Standby button).

This pauses the alarm for 5 minutes.

The alarm is reactivated after 5 minutes.

To deactivate the alarm until the following day, press the  button on the device.

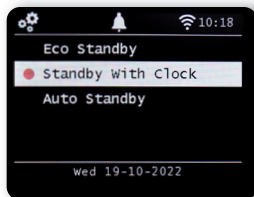
7.2.5 Edit timer

In this menu, you can edit a set recording timer. Please read chapter „8.14 Recording radio broadcasts“ on page 55.

7.2.6 Standby mode

This function lets you adjust the display in standby mode.

Use the   buttons on the remote control or the knob on the device to select Standby mode in the menu and press the OK button on the remote control or the knob on the device to confirm.



Select your desired function then confirm by pressing the knob on the device or the **OK** button on the remote control.

Eco standby

In this mode, the device consumes very little power when in standby mode. The time is not displayed in this standby mode.

Standby with clock

In this mode, the time is displayed in standby mode if you turn the device off by using the Standby button.

This slightly increases power consumption.

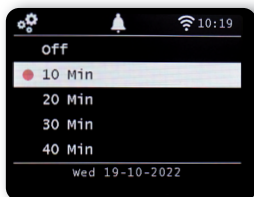
Eco standby mode is activated by holding the Standby button.

Auto standby

In this mode, the device automatically switches to standby after a set time if no operation is performed during this period.

7.2.7 Sleep timer

The sleep timer function can be used to automatically switch the radio into standby mode. Here, you can determine the amount of time until the device automatically switches off. Use the ▲ ▼ buttons on the remote control or the knob on the device to select Sleep timer in the menu and press the **OK** button on the remote control or the knob on the device to confirm.



Select Off to disable this feature or select a preset time between 10 and 120 minutes.

Confirm your entry by pressing OK on the remote control or confirm by pressing the control knob on the device.

7.2.8 Backlight

This function lets you adapt the brightness of the display.

Use the ▲ ▼ buttons on the remote control or the control knob on the device to select Backlight in the System menu and press the **OK** button on the remote control or the knob on the device to confirm.



You can adjust the backlight for both operation and standby mode. Use the ◀ ▶ buttons or the knob on the device and press **OK** to confirm

7.2.9 Location setting

This setting allows you to set the region in which you are located. In this setting, the radio selects local radio stations in your area via the local radio function.

Use the ▲ ▼ buttons on the remote control or the knob on the device to select the Location setting in the System menu and then press the **OK** button on the remote control or the knob on the device to confirm. Then select your continent, followed by your country.

7.2.10 Software update

It may be necessary to update the operating software to improve the device's function. The USB interface allows you to update your radio's operating software, which is available on www.kathrein-ds.com if required. The software provided on the website must be unzipped. The unzipped file is then transferred to an appropriate storage medium and connected to the radio via the USB port.

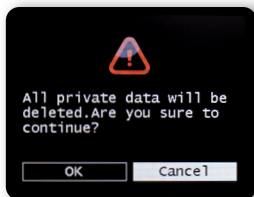
Please refer to the software download information for the software update procedure.

Alternatively, the update can be carried out via the network connection. In this case, select Via network.

7.2.11 Factory settings

This part of the menu lets you restore the device's factory settings. The device will then subsequently restart with its factory settings.

Use the **▲▼** buttons on the remote control or the knob on the device to select Factory settings in the System menu then press the **OK** button on the remote control or the knob on the device to confirm.



Use the **OK** button to confirm if you would like to restore factory settings. Select Cancel if you want to cancel this action.

If you activate factory settings, the device will return to the settings it had at the time of delivery. All saved stations and favourites lists will be lost.

7.2.12 Version

This part of the menu provides information about the firmware version currently installed on the device.

Use the **▲▼** buttons on the remote control or the knob on the device to select the Version setting in the System menu and then press the **OK** button on the remote control or the knob on the device to confirm.

8. OPERATION

8.1 DAB+ radio

You can receive digitally transmitted radio stations in this radio mode.

Press the **MENU** button on the remote control or on the device use the **◀ ▶** buttons to select the menu item DAB/DAB+.

To confirm your selection, press the **OK** button on the remote control or press the knob on the device.

8.1.1 Station list

Press the **List** button to view the station's DAB station list. You can now use this station list to select your desired station.

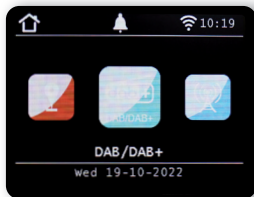
Please note that a DAB station list is only available if a DAB station scan has been successfully performed beforehand.

Please also read chapter „8.1.2 DAB search“ on page 44

8.1.2 DAB search

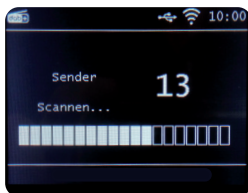
To perform an automatic station search in DAB mode, press the Back **↶** button, several times if necessary.

If the radio has not yet had any programmes stored in DAB mode, a search will start automatically as soon as the radio is switched to DAB receiving mode.



Switch to the automatic station search line and confirm by pressing the **Enter/OK** button on the remote control or by pressing the control knob on the device.

The radio will now automatically search for all receivable digital radio stations and then save them in a station list. You can access these as described in Chapter „8.1.1 Station list“ on page 44.



The number on the right shows the number of radio stations found. After a successful search, the radio starts playing the first station found.

8.1.3 DAB manual search

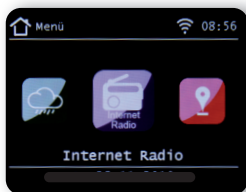
You can also search for DAB stations manually.

You will need to know the broadcast frequency to do so.

In this part of the menu, select the desired station frequency and press **OK** to confirm.

8.2 Selecting an internet radio station

Use the arrow buttons ◀ ▶ in the main menu to select Internet radio and then press the **OK** button on the remote control or the **OK** button on the device to confirm.



As soon as you have switched to internet radio mode, you'll be shown an overview.



Various lists are available here.

Favourites list

This list displays all individually stored radio stations. On how to save a radio station, please also consult chapter „8.2 Selecting an internet radio station“ on page 46.

Radio

Various radio programme lists are provided here.

Podcasts

Here, you can choose from a number of radio podcasts.

History

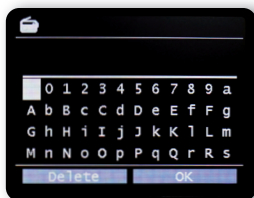
This list shows the 40 most recent radio stations you have selected.

Search

You can use this function to search for a specific radio station.

8.3 Searching for an internet radio station

Select the Search line and confirm by pressing the **OK** knob on the device.



Enter the name of the radio station in the search field using the keyboard on the remote control.

Use the **◀▶▲▼** buttons to do this..

Confirm your entry by pressing **OK**.

The radio will now search for all stations that correspond to this entry.

Use the **▲▼** buttons to choose a station and confirm by pressing the knob on the device.

8.4 Saving radio stations

You can store up to 4 radio stations on one station memory button.

Select a radio station that you want to save and hold down the station memory button on the device on which you want to store the radio station for approx. 3 seconds.

The radio station will be saved.

You can now use this button to access the radio station.

8.5 Saving radio stations to your favourites list

Radio stations can be saved in a favourites list that you can quickly call up using the favourites button on the remote control. You can save up to 10 favourite radio stations in this list.

Choose a radio station that you would like to add to your favourites list. Press the **FAV+** button on the remote control.

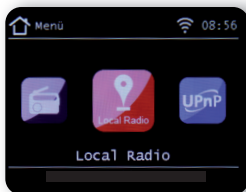
Now select the number for the memory slot to which you would like to save the radio station.

Hold the **FAV+** button on the remote control for approx. 2 seconds. The radio station will be saved to the chosen slot.

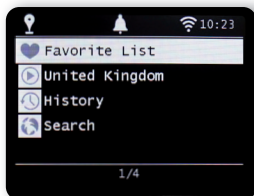
8.6 Local radio stations

To make it easier for you to search for stations in your area in internet radio mode, you can search for specific radio stations from your region in the device's menu.

Use the **◀▶** buttons on the remote control or the knob on the device to select Local radio.



This part of the menu lets you sort a selection of various internet radio stations by country region so you can find them more easily. You can use the   buttons here to select your desired programme list.



Confirm your entry by pressing **OK**.

8.7 Changing the volume

Adjust the volume using the **VOL+ / VOL-** buttons on the remote control or by using the knob on the device.



To mute the radio, press the **Mute** button on the remote control.

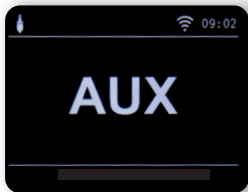
8.8 Switching operating mode

Press the **MODE** button on the remote control to switch between AUX, UPnP, local radio, DAB+ radio, FM radio, Cloud music, UPnP, AUX IN, multimedia, internet radio and Bluetooth operating modes.

8.9 AUX IN

You can connect an external music player to the radio, e.g. an MP3 player. To do so, connect the external device to the back of the radio using a suitable cable and switch the device on. Press the **MENU** button on the remote control or on the device and use the **◀ ▶** buttons on the remote control or the knob on the device to select AUX in the menu. Press **OK** on the remote control or the control knob on the device to confirm.

Alternatively, you can switch to AUX mode by pressing the **MODE** button on the device repeatedly until the AUX mode is activated.



You can now play music from the external device. The output (skip track, back, stop, play) is controlled via the connected device. The volume can be adjusted via the **VOL+ / VOL-** buttons or the control knob on the radio or via the external device.

Please note that you have to connect the external device using a suitable cable.

The radio is equipped with an AUX IN input that is suitable for a 3.5 mm stereo jack.

8.10 UPnP

If you have connected the radio to a wireless network, you can also use the radio as a media player to play music files from connected devices in the network such as PCs or smartphones via UPnP.

You can also use the radio as a media player to play music files from connected devices in the network such as PCs or smartphones via UPnP. The devices must be integrated into the same home network for this, and the corresponding media content must be approved for sharing in the network. Share the corresponding media content within this network.

To select UPnP, do the following: Press the **MENU** button on the remote control or on the device, and use the **◀ ▶** buttons on the remote control or the control dial on the device to select UPnP.

Press **OK** on the remote control or the control knob on the device to confirm. Select a track you want to play and confirm by pressing the knob on the device.



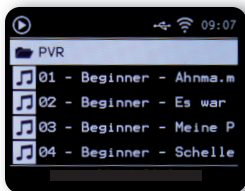
8.11 USB playback/multimedia

You can play MP3 music files from a USB storage device.

To do so, insert a USB drive containing music files into the USB port on the back.

Press the **MENU** button on the remote control or on the device, and use the **◀▶** buttons on the remote control or the control dial on the device to select Multimedia.

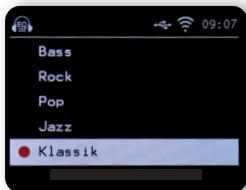
Press **OK** on the remote control or the control knob on the device to confirm. Select a track you want to play and confirm by pressing the knob on the device.



8.12 EQ (equaliser)

In this section, you can select certain sound settings. In addition to several sound presets, you can also customise your radio's sound and save this setting under My EQ.

Use the ▲▼ buttons on the remote control or the control knob on the device to select Equalizer in the main menu then press the **OK** button on the remote control or the knob on the device to confirm



Use the ▲▼ buttons on the remote control or the control knob on the device to select a sound preset and confirm by pressing OK on the remote control or by pressing the knob on the device. Under My EQ profile, you can change the radio's basic settings. Here, you can adjust the cut-off frequency for high tones (treble) and low tones (bass) to suit your Taste.



Under EQ advanced settings, you can adjust various frequency ranges.

8.13 Weather

The device can show current weather information for your location. To view the weather, select Weather in the radio's main menu then press **OK** to confirm.



You can use the **MENU** button to change the location for the weather report. Enter the name of the city for which you want the latest weather information.

If the device is connected to the Internet, you can view weather information on the device display.

Please note:

For the weather forecast, the device accesses an internet server on which weather data is stored.

Therefore, the weather data displayed may differ from the actual weather data at your location.

8.14 Recording radio broadcasts

You can use the device to record UKW, DAB+ and internet radio programmes onto a connected USB data carrier.

The radio creates a folder on the connected USB data carrier in which all recordings are stored. The folder is named PVR.

The files are saved in the audio format transmitted by the radio station.

You can record a programme while playing if you have connected a USB data carrier to the radio.

While a programme is playing, press the **Record** button (Rec) on the device or remote control. A red recording icon will appear on the display.

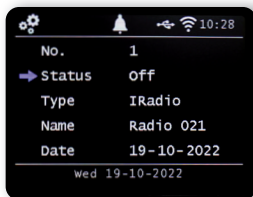


To stop recording, press the **Stop** button and confirm the request with **OK**.

The recordings from DAB+ mode can only be played with the DAB+ link M11/S12.



Similarly to a video or DVD recorder, the radio can also be used to programme timed recordings to record radio broadcasts when you are not at home, for example. To do this, hold the **Record** button on the device or on the remote control for more than 2 seconds. Alternatively, select Timer in the System menu.



Name: Select the radio programme that is to be recorded here.
 Date: Enter the date on which the timer should start here.

Start time: Select the start time line, then press the **OK** button and enter the time when the timer should be activated using   on the remote control or the knob.

Duration: Set the recording time in hours and minutes here.

Mode: Determine whether the recording should occur only once or daily.

8.15 Radio as a Bluetooth receiver

The radio can be connected to an external device(e.g. smartphone, tablet) via Bluetooth.

The Bluetooth connection can then be used to play media (locally stored MP3 files, streamed music, online radio) from external devices via the radio. Select Bluetooth in the menu.

A Bluetooth connection must be established before you can send audio files to the radio via Bluetooth.

8.15.1 Establishing a Bluetooth connection

Press the Menu button on the remote control or on the device, and select Bluetooth mode.

Once you have selected the Bluetooth mode on the radio, the device will be in pairing mode and will search for Bluetooth devices to connect to.

Go to the menu System → Bluetooth → Bluetooth Devices. The radio will now search for Bluetooth receiver devices (e.g. headphones, sound box, ...). Select the desired receiver device from the Bluetooth list.

Confirm by pressing the rotary control or remote control. The Bluetooth connection to the receiver device is now established.

8.15.2 Playing media via Bluetooth

Once you have established a Bluetooth connection as described in chapter „8.15.1 Establishing a Bluetooth connection“ on page 57, you can play music files stored on the external device via the radio.

To do so, proceed as follows:

Start music playback on the external device by activating the relevant playback function (MP3 player etc.) or choosing a title from the relevant playback list then beginning playback.

8.15.3 Radio as a Bluetooth transmitter

The radio can also be used as a Bluetooth transmitter.

This lets you transfer audio signals from the radio via Bluetooth to suitable Bluetooth receiving devices (e.g. Bluetooth headphones).

To begin Bluetooth transmission, proceed as follows:

Go to the menu System → Bluetooth → Bluetooth Devices.

The radio will now search for Bluetooth receiver devices (e.g. headphones, sound box, ...). Select the desired receiver device from the Bluetooth list. Confirm by pressing the rotary control or remote control. The Bluetooth connection to the receiver device is now established.

NOTE!

Once a Bluetooth connection has been established with the receiving device, the radio's speakers will be deactivated. The sound can only be heard via the Bluetooth receiver in this setting.

8.16 Changing the function of the MODE button

There is a **MODE** button on the device itself and on the remote control, the function of which can be changed.

To adjust the function of this button to suit your needs, please proceed as follows:

Press the Menu button on the remote control or the device and use the **◀▶** buttons or the control knob to select System in the menu.

Use the **OK** button on the remote control or press the knob on the device to confirm your selection. Select Buttons and confirm your selection by pressing the control knob.

Confirm **MODE** and select the function you want the **MODE** button to activate.

Leave the menu by pressing the **Back** button.

8.17 Cloud music

The DAB+ link M11 und DAB+ link S12 can be used to play UKW, internet and DAB radio stations as well as numerous internet music streaming services. The radio supports the following streaming providers: deezer, napster, TIDAL, qobuz, SOUNDMACHINE, HIGHRESAUDIO, CALM RADIO *

(*as of printing, subject to change at any time.)

If you would like to use the services of one or more streaming services, you will need to register with the relevant provider.

You can find out more about the registration process on the relevant provider's website.

Select your music streaming provider in the main menu and press OK to confirm.

Enter your account access details into the relevant form. If you have entered everything correctly, you should now have direct access to the music service.

8.18 EWF Emergency-Warning-Functionality

8.18.1 EWF? What does it mean?



Emergency-Warning-Functionality" - EWF for short, enables the population to be warned quickly and reliably in the event of a disaster.

Whether it's flooding, extreme storms, a chemical accident or a terrorist attack - the digital radio provides information about imminent dangers. The current radio program is interrupted in the event of an emergency alarm and the radios automatically switch to the warning and information channel. Radios that are in „standby mode“ are automatically activated. In addition to the warning announcement, the warning message appears on the radio display in multiple languages and with detailed instructions and information.

EWF is currently still in trial operation and is not broadcast as standard. As soon as this procedure is in regular operation, it can be accessed.

8.18.2 Setting EWF

Press the **MENU** button on the remote control or on device and select System using the buttons on the remote control or the rotary control on the device. Confirm with **OK** on the remote control or by pressing the rotary control on the device. Select the **EWF** menu item and confirm by pressing the rotary control on the device or with **OK** on the remote control.

ON/OFF

Activate or deactivate the EWF function in the On/Off line.

Adjust Volume

Here you set the volume at which a warning message is to be played.

Standby monitor

If necessary, additional text information is transmitted via DAB. If you want them to be shown in the display, select active.

8.19 Operation via the app



You can use the app **Soundmate** to operate compatible internet radio services via your tablet or smartphone. The app is suitable for iOS and Android operating systems.

NOTE!

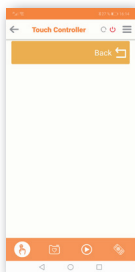
This description corresponds to the app as at 05/2023. The app's functions or appearance may be changed by software updates.

Download the application from the Google Play Store® for Android ® operating systems or iTunes for iOS ® operating systems then install the app onto your mobile device (smartphone, tablet, ...).



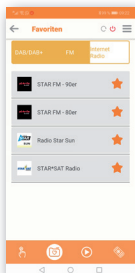
Start the app:

When you start the app, it will automatically recognise the radio as long as it is registered to the same network. The app's main menu is structured like the radio menu. The icons used in the app are comparable to the symbols in the radio menu. Tap on the discovered radio to start the app.



Touch controller

You can use the touch controller to swipe right or left, up or down to control various functions, e.g. volume or programme selection.



Accessing favourite stations

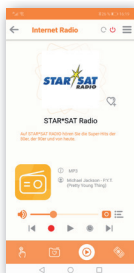
You can use this function to view your saved favourite radio stations. Select a favourite radio station from the list.

Favourite radio stations can be saved to the radio as described in the radio's operating instructions.



Switch operating mode

Use this button to view current playback. Here, you can select internet, DAB + or FM radio stations. You can also change the volume here. Here, you can begin recording to a USB data carrier. As well as the current radio station, any additional information provided by the radio station about the current programme will also be displayed.



Playback function

Use this button to view current playback. Here, you can select internet, DAB + or FM radio stations. You can also change the volume here. Here, you can begin recording to a USB data carrier. As well as the current radio station, any additional information provided by the radio station about the current programme will also be displayed.



Remote control

The remote control function lets you control the radio using a virtual remote control.

To do this, tap the remote control symbol at the bottom.

You can now control all radio functions with the help of this virtual remote control.

9. TROUBLESHOOTING

Symptom	Possible cause and troubleshooting
Display not on, radio does not react	Connect to power using the power cable provided.
Remote control does not work	Battery dead or incorrectly inserted. Please check that the batteries are inserted in the correct direction. Point the remote control at the device.
DAB+ reception interrupted	No stations available. Run a search. Antenna not fully extended. Change the radio's location (e.g. closer to a window), perform another search.
Radio programmes glitching	Change the location of the radio.
AUX playback not working	The radio is in the wrong mode. Switch to 'AUX' mode. Cable connection faulty. Check the cable connection between the radio and the external device.

Symptom	Possible cause and troubleshooting
Poor audio quality when playing music	File with low bit rate. Check the audio file. Tip: For MP3 files, the bit rate should be 192 Kbit/s or higher.
Volume too low	Check the volume setting on the radio. Check the volume setting on the paired device from which you are playing music.
Network connection cannot be established	Check the WiFi function. Activate the DHCP function on the router to which the radio is to be registered. There may be an active firewall in the network.
WiFi connection cannot be established	Check the availability of WiFi networks. Reduce the distance between the WiFi router and the radio. Make sure that you are using the correct WEP/WPA password when connecting to a WiFi router.

Symptom	Possible cause and troubleshooting
No internet radio stations available	Check network access points. The radio station is currently unavailable. The station's link has been changed or it is no longer transmitting.
USB data carrier not recognised	Make sure that the USB storage device is FAT32 formatted.
No sound is coming from the device. All other functions are OK.	Headphones are plugged in. Unplug the headphones.

10. STORAGE

When not in use, please unplug the power adapter from the socket, disconnect the power adapter cable from the radio and store the device in a dry place protected from dust. If the device is not in use for a longer period of time, the battery must be removed from the remote control.

11. BRAND INFORMATION

Product and company names mentioned here are trademarks or registered trademarks of their respective owners.

12. DISPOSAL INFORMATION

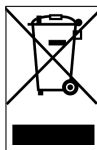
12.1 Disposing of packaging

The packaging consists exclusively of materials that can be recycled. Please dispose of these properly.



12.2 Device disposal

The symbol on the right of a crossed out waste bin indicates that this device is subject to Directive 2012 / 19 / EU. This directive specifies that this device may not be disposed of with normal household waste at the end of its life but must be taken to especially equipped collection points, recycling centres or waste disposal facilities. This type of disposal is free of charge. Protect the environment and dispose of waste properly. Further information is available from your local waste collection company or your city or municipal office.



12.3 Disposing of batteries

Batteries may not be disposed of with household waste. The symbol on the right means that you as a consumer are required to separately dispose of all batteries and battery packs. Suitable collection bins are provided at specialist retailers and numerous public facilities. Information on the disposal of old batteries can also be found via waste disposal companies, municipal and local authorities. This type of disposal is free of charge. Protect the environment and dispose of waste properly.



An additional chemical symbol Pb (lead) or Hg (mercury) under the crossed-out bin means that the battery contains more than 0.0005 % mercury or 0.004 % lead.

13. PROPERTIES AND TECHNICAL DATA

Internetradio

Audio codecs	MP3 (bit rate up to 320 Kbits/s, samplingrate up to 48 KHz) AAC/AAC+ (bit rate up to 320 Kbits/s, sampling rate up to 48 KHz) WMA (bit rate up to 320 Kbits/s, samplingrate up to 48 KHz) WAV
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DAB/DAB+/FM

Reception range	DAB Band III 174 MHz - 240 MHz FM 87.5 MHz -108 Mhz
-----------------	--

Ton

Speaker	2 x 15 W music output 3" Lautsprecher at 6 Ω
---------	---

Display

TFT color display	3.2 inch colour display
-------------------	-------------------------

Connections

Headphones	3.5 mm stereo jack input
AUX IN	3.5 mm stereo jack input

Polarity
Power adapter connection



USB port	USB 2.0 standard
----------	------------------

Operating conditions	
Temperature range	0 °C – 45 °C
Humidity	20 – 80 % relative humidity
WiFi interface	
Frequency range	2.412 GHz – 2.4835 GHz
Modulation	CCK, DQPSK, DBPSK, 64-QAM, 16-QAM, QPSK, BPSK,
IEEE standards	IEEE 802.11b/g /n
WiFi data rate	1, 2, 5.5, 11 Mbps
802.11b	6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11g	HT20 to 72,2 Mbps
802.11n	HT40 to 150 Mbps
Transmitting power	18.5 dBm (Max)
Technical data for adapter DAB+ link S12	
Model name DAB+ link S12	SOY-1500240EU-056B
Input voltage	100 – 240V
AC frequency input	50 Hz
Output voltage	15 V
Output power	2.4 A
Output capacity	36 W
Average operational efficiency	85.60 %
Efficiency at minor power (10%)	87.41 %
Standby power consumption	< 0.1 W

Technical data for adapter DAB+ link M11

Model name	SOY-1500150EU-063G
Input voltage	100 – 240V
AC frequency input	50 Hz
Output voltage	15 V
Output power	1.5 A
Output capacity	22.5 W
Average operational efficiency	82.50 %
Efficiency at minor power (10%)	82.61 %
Standby power consumption	< 0.1 W

Storage conditions

Always keep in a dry place.

Dimensions and weight DAB+ link S12

Width x height x depth (mm)	262 x 104 x 110
Weight	1770 g

Dimensions and weight DAB+ link M11

Width x height x depth (mm)	182 x 104 x 110
Weight	1122 g

Remote control battery

Type	CR 2025 / 3 V
------	---------------

14. SERVICE AND SUPPORT

Dear customer!

Thank you for choosing one of our products. Our product meets legal requirements and has been manufactured under constant quality control. The technical data corresponds to the current status at the time of printing.

Changes are reserved.

The warranty period for the Kathrein DAB+ link M11 und DAB+ link S12 corresponds to the statutory provisions at the time of purchase.

However, should problems arise with your radio, please contact:

KATHREIN Digital Systems GmbH Support

Eiselauer Weg 13

89081 Ulm, Germany

Phone: +49 731 270-909 70

Email: support@kathrein-ds.com

15. SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, KATHREIN Digital Systems GmbH declares that the radio equipment types

DAB+ link M11 | white mono (BN: 280500008),

DAB+ link M11 | black mono (BN: 280500009),

DAB+ link S12 | white stereo (BN: 280500010) und

DAB+ link S12 | black stereo (BN: 280500011)

are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

www.kathrein-ds.com

16. LEGAL NOTICE

All technical data and functions described in these operating instructions are correct at the time of printing and are subject to change without prior notice. We assume no liability for misprints or errors.

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