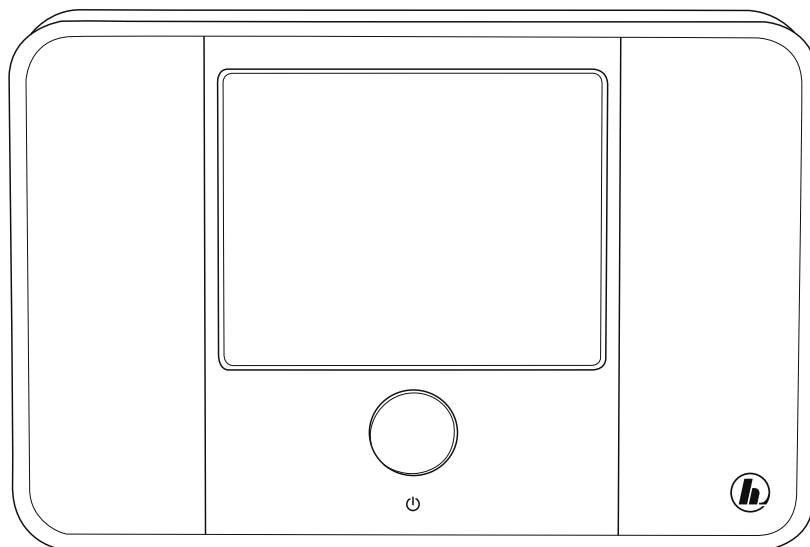


00054841
(DIT1000MBT)

hama[®]
THE SMART SOLUTION

Digital Tuner

Digitaltuner

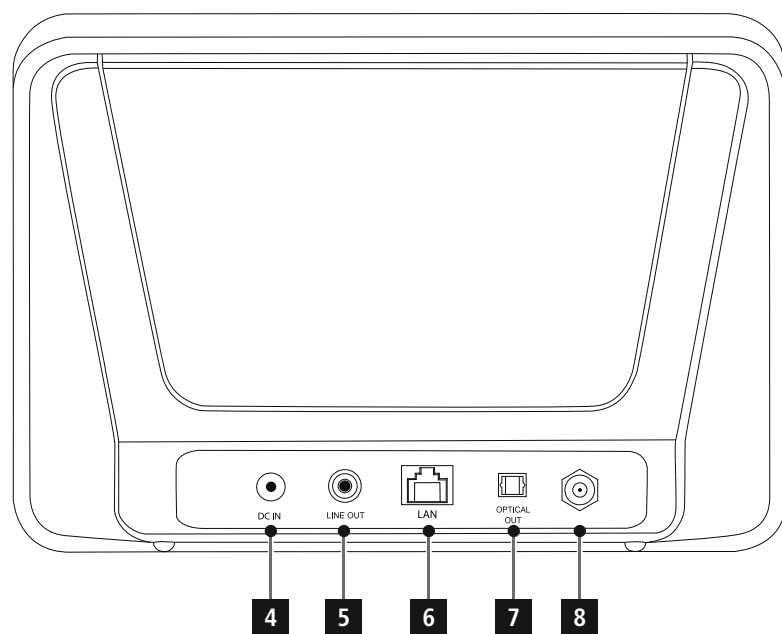
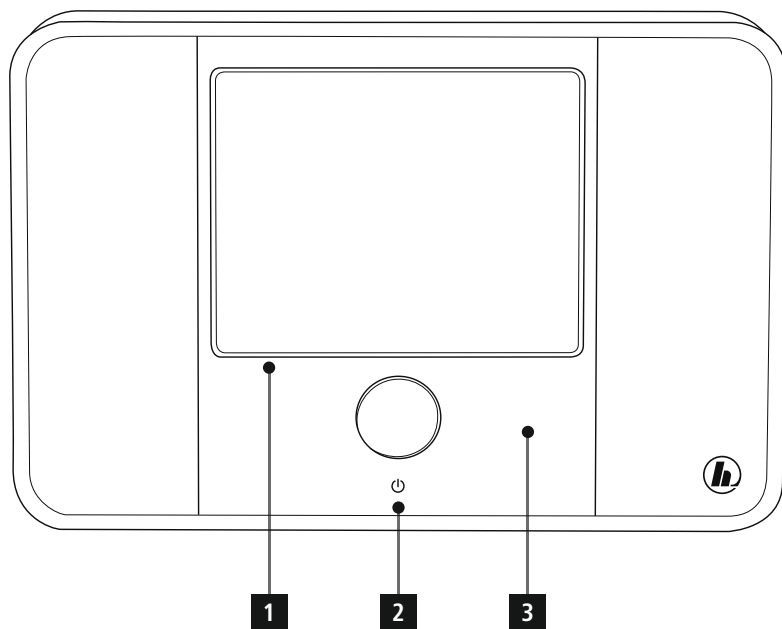


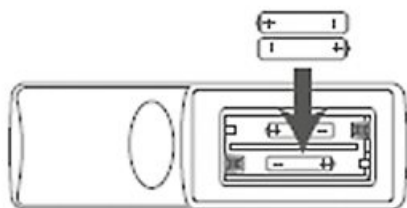
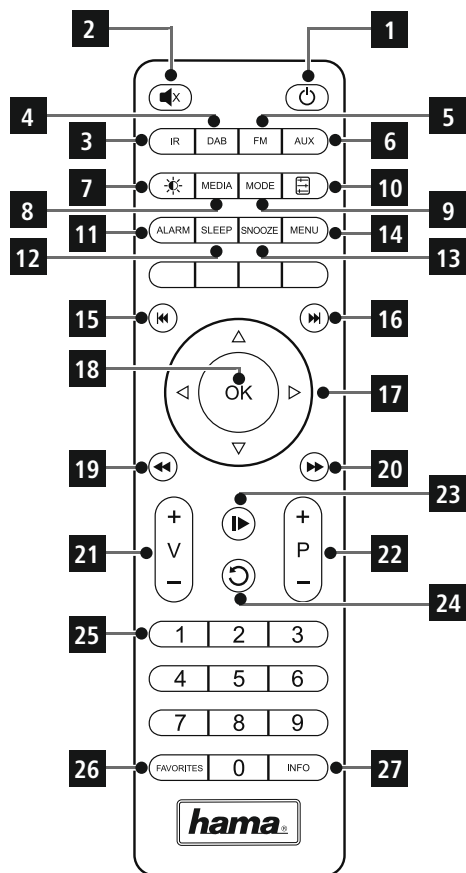
Operating Instructions / Bedienungsanleitung / Mode d'emploi / Instrucciones de uso /
Руководство по эксплуатации / Istruzioni per l'uso / Gebruiksaanwijzing / Οδηγίες χρήσης / Instrukcja obsługi /
Használati útmutató / Návod k použití / Návod na použitie / Manual de instruções / Kullanma kılavuzu /
Manual de utilizare / Bruksanvisning / Käyttöohje / Работна инструкция / Betjeningsvejledning / Manuelt stasjonssøk



Technical Data

Radio Receiver	DAB ✓	DAB+ ✓	FM ✓	Internet ✓	Spotify ✓
Connectivity	LAN (10/100), WiFi (b/g/n), Bluetooth® 2.1				
Display	3.2" (8.13 cm) Colour TFT				
Encryption	WEP, WPA, WPA2				
DAB Frequencies	174 - 240 MHz				
FM Frequencies	87.5 - 108 MHz				
Power input	6 V ≍ 0.5 A switch mode power supply				
Frequency range	DAB/DAB+: 174-240 MHz		FM: 87.5-108 MHz		
Sensitivity	DAB/DAB+: -97 ~ 99 dBm		FM: -105 ~ 109 dBm		
Power Consumption	Operation	~ 3 W	Standby	< 1 W	
Input & Output	Line OUT, RJ45, Optical Out				
Presets	DAB/DAB+: 30	FM: 30		Internet: 30	Spotify Connect: 10
Codec	IR: MP3, WMA, ADTS, MPEG-DASH	UPNP: MP3, WMA v9/ASF, M4A, ADTS, WAV, LPCM, FLAC, ALAC			DAB: MP2, AAC
UI Languages	English, German, Danish, Dutch, Finnish, French, Italian, Norwegian, Polish, Portuguese, Spanish, Swedish, Turkish, Czech, Slovak				
Package Content	DIT1000MBT, Power Supply, Remote Control, Batteries, Short Manual, Telescope Antenna				





Controls and Displays

A: Front		
1		3.2" colour display
2	[⏻]	POWER-Taste
3		Infrared receiver

B: Rear		
4		Mains power supply
5		LINE OUT socket
6		LAN connection
7		Optical output
8		Antenna*

C: Remote Control		
1	[⏻]	On/off switch ▲ Press [⏻]
2	[🔊 ×]	Mute
3	[IR]	Direct access to operating mode Internet radio
4	[DAB]	Direct access to operating mode DAB
5	[FM]	Direct access to operating mode FM
6	[AUX]	Direct access to operating mode Aux in
7	[☀]	Backlight settings
8	[MEDIA]	Direct access to operating mode Music player
9	[MODE]	Changing operating mode (Internet radio, Spotify Connect, Music player, DAB, FM, Aux in)
10	[📊]	Equaliser settings
11	[ALARM]	Direct access to alarm clock settings
12	[SLEEP]	Snooze settings
13	[SNOOZE]	Activating Snooze
14	[MENU]	Direct access to the menu
15	[⏮]	previous track (operating mode: Spotify Connect, Music player)
16	[⏭]	next track (operating mode: Spotify Connect, Music player)
17	Navigation keys	▲ Up / ▼ Down / ◀ Back one menu level / ▶ Forward/ Confirm
18	[OK]	Confirm



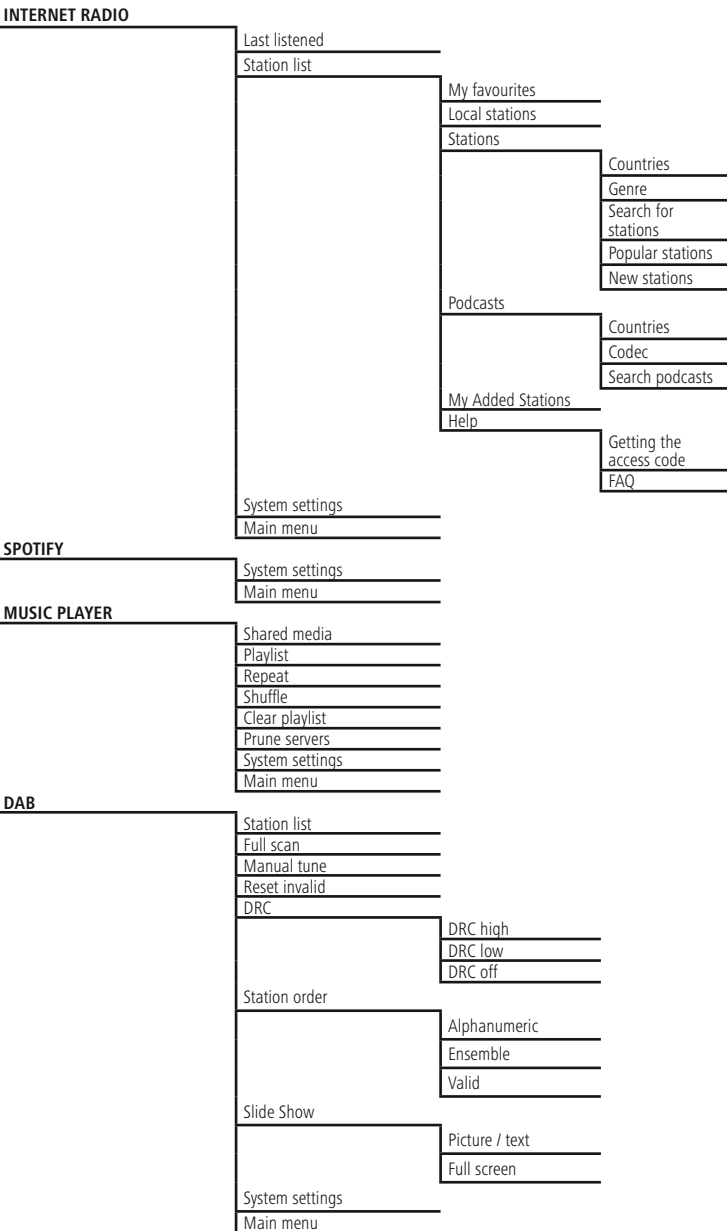
19	[◀◀]	Rewind (operating mode: Spotify Connect, Music player)
20	[▶▶]	Fast forward (operating mode: Spotify Connect, Music player)
21	Volume keys [+]/[-]	Volume control
22	Favourite keys [+]/[-]	Selection from favourites list
23	[▶]	Start/ Stop playback (operating mode: Spotify Connect, Music player, Aux in)
24	[↶]	Back one menu level
25	Number keys	Direct access to favourites/ Save favourites
26	[FAVORITES]	List/save favourites
27	[INFO]	Display additional information



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Menu structure

MAIN MENU*

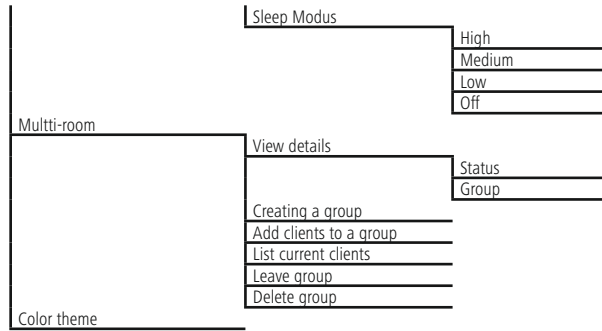


FM	
	Search setting
	Audio setting
	System settings
	Main menu
Bluetooth	
	Terminate connection
	System settings
	Main menu
SLEEP	
ALARMS	
	Alarms 1
	Alarms 2

SYSTEM SETTINGS**

Network	
	Network wizard
	PBC WLAN setup
	View settings
	Manual settings
	Wired
	Wireless
	NetRemote PIN Setup
	Network profile
	Keep network connected
Time/ Date	
	Time/ date settings
	Auto update
	Update from DAB
	Update from FM
	Update from Network
	No update
	Format tune
	Set timezone
	Summer-/ winter time
Language	
Factory Reset	
Software update	
	Auto update
	Start a check for software updates
Setup wizard	
Info	
Backlight	
	Operating mode
	High
	Medium
	Low
	Standby mode
	Timeout
	Off
	10 sec
	30 sec
	60 sec
	Display lighting
	High
	Medium
	Low
	Off





Thank you for choosing a Hama product.

Take your time and read the following instructions and information completely. Please keep these instructions in a safe place for future reference. If you sell the device, please pass these operating instructions on to the new owner.

1. Explanation of Warning Symbols and Notes

Warning

This symbol is used to indicate safety instructions or to draw your attention to specific hazards and risks.

Note

This symbol is used to indicate additional information or important notes.

Risk of electric shock

This symbol indicates product parts energized with a dangerous voltage of sufficient magnitude to constitute a risk of electric shock.

2. Package Contents

- DIT1000MBT
- DAB/FM Antenna
- AC/DC adapter
- Remote Control
- 2x AAA batteries
- Quick guide
- Spotify Connect brochure

3. Safety Notes

- The product is intended for private, non-commercial use only.
- Protect the product from dirt, moisture and overheating and use it in dry rooms only.
- As with all electrical devices, this device should be kept out of the reach of children.
- Do not drop the product and do not expose it to any major shocks.
- Do not operate the product outside the power limits given in the specifications.
- Keep the packaging material out of the reach of children due to the risk of suffocation.
- Dispose of packaging material immediately according to locally applicable regulations.
- Do not modify the device in any way. Doing so voids the warranty.

Risk of electric shock

- Do not open the device or continue to operate it if it becomes damaged.
- Do not use the product if the AC adapter, adapter cable or power cable is damaged.
- Do not attempt to service or repair the device yourself. Leave any service work to qualified experts.

Warning – Batteries:

- When inserting batteries, note the correct polarity (+ and - markings) and insert the batteries accordingly. Failure to do so could result in the batteries leaking or exploding.
- Do not allow children to change batteries without supervision.
- Do not mix old and new batteries or batteries of a different type or make.
- Remove the batteries from products that are not being used for an extended period
- Do not short-circuit batteries.
- Do not charge batteries.
- Do not throw batteries in a fire.
- Keep batteries out of the reach of children.



4. Informations and notes before getting started

Note

A detailed description of the UNDOK app and the full scope of functions can be found in our UNDOK guide at:



www.hama.com -> 00054841 -> Downloads

Note – Optimising reception

- This product is equipped with an antenna connection which allows the use of an active or passive antenna. The antenna is connected with a coaxial F-connector.
- A telescopic antenna that enables DAB, DAB+ and FM reception is included in the delivery. For best reception, ensure that the antenna is fully extended and vertical.
- Try various different positions if necessary to get the best reception.

Network connection/

Preparing the internet connection

You can integrate this radio into a local network and even access home servers or other authorised resources. To receive internet radio or access non-local media (streaming, such as Spotify Connect), the network must be connected to the internet.

Note

The LAN connection is less susceptible to faults than a WLAN connection. That's why it's recommended to use a wired connection between access point (AP) and radio to ensure an undisturbed reception.

4.1 LAN connection (wired network)

- Connect a LAN cable of type RJ45 to a free socket on your router, switch or access point.
- Connect the other end of the LAN cable to the RJ45 LAN socket on the radio.
- Make sure that the router is on and that you have an Internet or network connection.
- If you have questions about router configuration, please consult the operating manual of the router for troubleshooting.
- A detailed description of how to configure the LAN connection is given in the **Wired network connection** (LAN) section.

4.2 WLAN connection (wireless network)

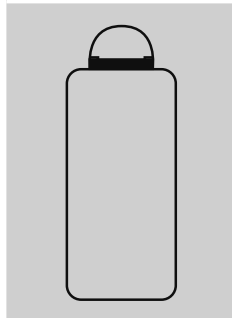
- Ensure that the router is switched on, is functioning correctly and that there is a connection to the internet.
- Activate the WLAN function of your router.
- Follow your router's operating instructions as regards the correct functioning of the WLAN connection.
- A detailed description of how to configure the LAN connection is given in the **Wireless network connection** (LAN) section.

5. Getting started

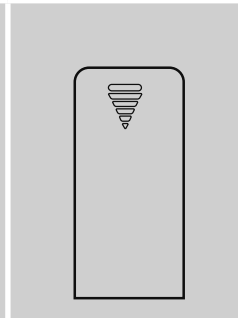
5.1 Remote Control

- Open the battery compartment cover. It is located on the rear of the remote control.
- Pull the closing tab back (if present) and lift the cover. With other models of remote control, it suffices to simply push the casing in the direction indicated.

A: Closing tab



B: Sliding cover



- Insert the batteries provided, paying attention to match the polarities correctly. The correct polarity is indicated by the plus and minus symbols in the battery compartment.



5.2 Radio – Connecting and starting up

Connect the network cable to a properly installed and easily accessible network socket. The power supply unit is suitable for mains voltages between 100 and 240 V, and is thus operable on almost any AC power grid. Please note that a country-specific adapter may be necessary. You can find an appropriate selection of Hama products at www.hama.com.

Note

- Only connect the product to a socket that has been approved for the device.
- When using a multi-socket power strip, make sure that the sum power draw of all the connected devices does not exceed its maximum throughput rating.
- The electrical socket must always be easily accessible.
- If you will not be using the product for a long period of time, disconnect it from mains power.

Once the product has been connected to mains power, initialisation takes place.
The radio starts up.

To assist you in first-time setup of the radio, a **Setup Wizard** is provided.

5.3. General notes on use

Notes on use

- These operating instructions always relate to operation with the remote control. Functions that are only usable by **app** are explained separately.
- When a selection among menu items is to be made (such as **YES** or **NO**), the one currently selected has a light-coloured background fill.
- In menus offering a variety of different options (such as Equalizer, Update, and so on), the currently selected option is marked with an asterisk (*).

Volume adjustment / mute

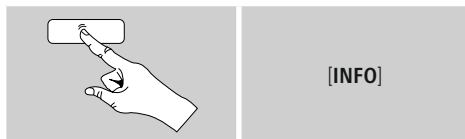
- Press [**Lautstärke-tasten +/-**] to increase/decrease the volume.
- Press [⏏] on the remote control to mute the radio.
- Press [⏏] again to reset the volume to the value it was at prior to the radio being muted.

Entering passwords, search terms, and so on

- Select each successive letter and digit by turning [▲], [▼], [▶] and [◀] and confirm each selection by pressing **OK**.
- To make corrections, select **BKSP** and confirm. The last input made is deleted.
- To cancel input, select **CANCEL** and confirm.
- Once your input is complete, select **OK** and confirm to finish.
- Press [**INFO**] to jump directly to the **BKSP/OK/ CANCEL** fields.

Additional information

Press [**INFO**] to display context-dependent additional information. The information shown depends on the operating mode as well as the current selection of radio station, music file, etc.



• Description

Indicates the radio station, the current program, contents, subjects, etc.

• Program Genre/country

Indicates the Genre (music style) and the country or region of the station.

• Reliability

• Bit-Rate

The currently received digital bit rate of the received station is displayed.

• Codec

Specifies the encoding scheme used to digitise the data or signal (such as MP3 or WMA).



• Sampling rate

Specifies the sampling rate, or the frequency with which the audio signal is polled (Sampling-/ Samplerate), in a certain period of time.

• Signal strength

The signal strength of the received station is displayed via a bar and its length.

• Today's date

• Artist


• Album

• Folder

• Path

Specifies the directory path at which the file currently being played back is saved.

Switching on/off / Standby

- Press [], to switch the radio on or off (Standby).
- To completely switch off the device, disconnect it from the power supply.

5.4 Initial setup

The Setup Wizard starts up automatically when the radio is turned on for the first time. The default used language is English. You can skip the Setup Wizard and start up anytime in your language. Set up your desired language as described in **15.4. Language**.

5.4.1 Setup wizard

You can choose between starting the initial setup via Setup Wizard (**YES**) and skipping the Setup Wizard (**NO**).



Note – Starting up with or without the setup wizard?

- We recommend using the setup wizard (**YES**) to quickly and easily configure the time, date, internet connection, etc.
- If you wish to skip setup with the setup wizard anyway, choose **NO**. All of the settings configured by the setup wizard can be configured or changed individually in the System settings menu. Alternatively, you may restart the setup wizard at any time.
- Next, choose **YES** or **NO** to define whether the setup wizard should start automatically next time the radio is started up. You are in the main menu.

Date/ Time

12/24 hours format

• Search/ Automatic search

• Update from DAB/ FM

If automatic time and date adjustment is activated, the device receives time and date information from the station over the FM/DAB/ DAB+ radio network. This is the best way to ensure that the clock will run accurately and the alarm will trigger at the correct time, even after power outages.

• Update from Network

Choose this option to set the time and date automatically from the internet. Set the timezone of your current location and, if desired, turn (**ON**) automatic adjustment between summer time and winter time.

• No update

The time and date (**DD-MM-YYYY**) must be set manually; no automatic calibration takes place.

Keep network connected

This setting is a radio energy-saving function. If this feature is disabled (**NO#**), the network module will be switched off whenever the radio is not actively using the network connection (such as in standby mode). This means the radio will not be accessible via the network from your PC, smartphone or tablet. You should enable (**YES #**) this menu item if you want to use streaming or control functions via the app. This function is disabled by default.

Network wizard –

Configuration of network connection



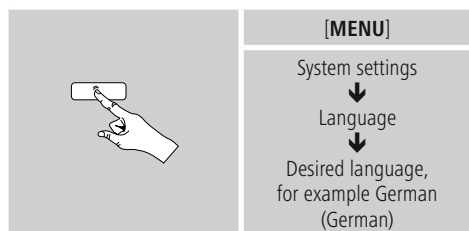
Note – Reference to a different part of these operating instructions

BecOf this chapter is extensive, please follow the directions in section **15.2.1. Network wizard – Configuration of internet connection**



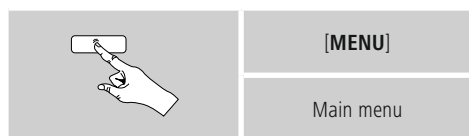
Once the network wizard has finished, the setup wizard is finished as well. The display shows a message to this effect. Press **[OK]** to enter the main menu.

Proceed as follows to choose your desired language:



6. Main menu / modes

Access the main menu as follows:



The main menu contains the various operating modes as well as other options that are explained separately in the following chapters.


7. Internet radio
8. Spotify
9. Music player
10. DAB
11. DAB+
11. FM
12. Bluetooth
13. Sleep
14. Alarms
15. System settings
16. UNDOK – Multiroom

Select amongst the available operating modes by repeatedly pressing **[MODE]**.



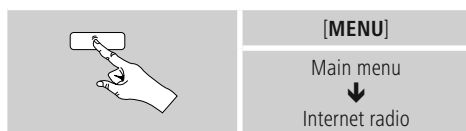
7. Internet radio

The radio uses the station list on the vTuner* portal. You can use stations without direct registration on the following portal: <http://www.wifiradio-froniter.com>. You will find detailed operating instructions under Section 7.5 Favourites.

 **Note**

* If necessary, it is possible to switch providers in order to make all features and functions of the product available.

Enable **[MODE]** operating mode by repeatedly pressing **Internet Radio**.



Alternatively, press **[IR]** on the remote control to directly select this operating mode.



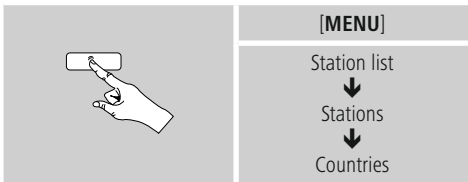
7.1 Station search

This radio offers various ways to search for stations.

- Use **[OK]** to navigate through each search function and its options.
- Once you have found a station you like, confirm by pressing **[OK]**. The radio starts playing the selected station.

7.1.1 Search by country or region

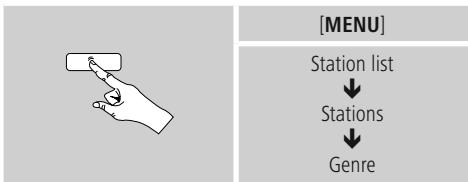
To search for a station by continent, country and region, proceed as follows:



Once you have restricted the results to a certain country or region, select a station from the complete list or from a list sorted by Genre.

7.1.2 Search by Genre

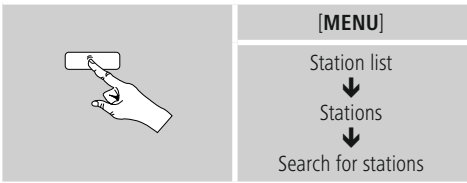
To search for a station of a certain Genre or subject focus, proceed as follows:



Once you have restricted the results to a certain Genre, select a station from a list of all stations available, or from a pre-selected list, or from a list sorted by country.

7.1.3 Search by name

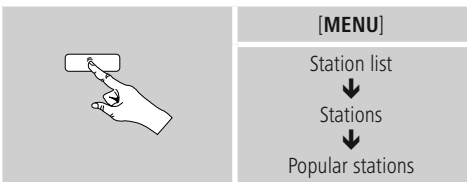
If you know the name of the desired station, you can search for it directly.



Enter the complete name, or a part thereof, in the input screen and select **[OK]** to start the search. You receive a list of all available stations whose names contain the search key.

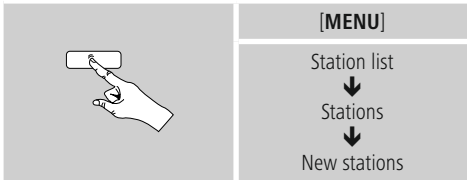
7.1.4 Popular stations

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



7.1.5 New stations


Stations that have recently been added to the database can be found as follows:



7.1.6 Local stations

To search for stations from your own country (the country in which the radio is currently located), proceed as follows:



 **Note**

Replace the <Country> placeholder with the country you are currently located in.

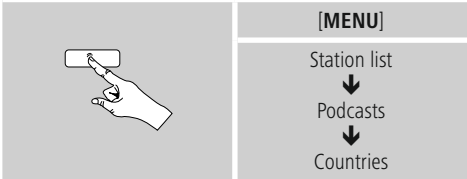
You can filter this local list by Genre, or select a station from the complete list, or select from a pre-selected list.

7.2 Podcasts

Podcasts are programs on various topics and include, for example, talk shows, news and much more. Podcasts can be downloaded from the Internet. There are normally approximately 10,000 programs available. Similarly to radio stations, the radio makes it possible to filter a large number of Podcasts, or to search the entire database for a matching result.

7.2.1 Search by country or region

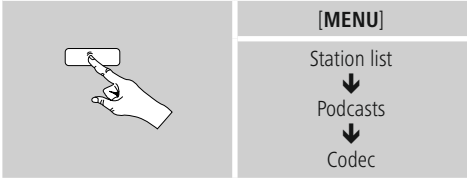
To search for a podcast by continent, country and region, proceed as follows:



Once you have restricted the results to a certain country or region, select a station from the complete list or from a list sorted by Genre.

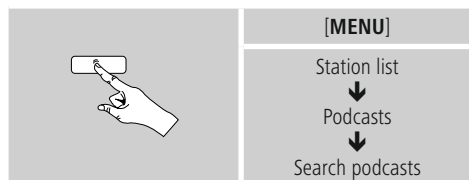
7.2.2 Search by format (subjects or categories)

To search for a podcast by continent, country and region, proceed as follows:



7.2.3 Search by name

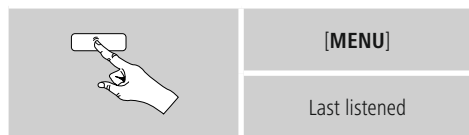
If you know the name of the desired Podcasts, you can search for it directly.



Enter the complete name, or a part thereof, in the input screen and select **[OK]** to start the search. You receive a list of all available Podcasts whose names contain the search key.

7.3 Last listened

The radio saves the last stations and Podcasts listened to in their own list. To access the list, proceed as follows:



7.4 Favourites (local)

You can save up to 30 of your favourite stations for quick and direct access.

Note

Favourites cannot be deleted. If all 30 station memory slots are filled and you wish to save a new station, choose one of the occupied slots. The station in this slot will be overwritten with the new station.

7.4.3 Management of favourites with the remote control

Favourites 1-10

The remote control enclosed has number keys 1-0 (0 \triangleq 10). A favourite can be assigned to each of these number key.

- To save a favourite, press and hold the corresponding number key on the remote control (approx. 3 seconds).
- The radio confirms that the favourite has been **saved** by displaying Preset stored.
- To call up a favourite, briefly press the corresponding number key on the remote control.

Favourites 1-30 (alternative to number keys)

- Press and hold **[FAVORITES]** approx. 3 seconds to save a station on one of the 1-30 favourite station presets. An overview window with the station presets should open after approx. 2 seconds.
- You can switch between the station presets (1 to 30) by pressing the **favourite keys [+]/[-]** by turning **[OK]**.
- Press **[OK]** to save the station on the desired station preset.
- To call up a favourite, briefly press **[FAVORITES]**, select the desired station preset by pressing the **favourite keys [+]/[-]** by turning **[OK]** and confirm the selection by pressing **[OK]**.

7.5 Favourites


(vTuner - <http://www.wifiradio-frontier.com>)

In addition to the local station memory slots, you can create additional lists of favourites using the vTuner database. Lists of favourites created using the vTuner database can be synchronised across multiple radios.




7.5.1 First use – Registering your radio

In order to be able to use this function you have to register at www.wifiradio-frontier.com. You need a valid email address and an access code which will be generated by your radio.

 **Note**


- No personal information is collected during the registration process.
- Registering does not cost you anything extra. The offer is completely free.
- Following registration you can choose from around 20,000 radio stations and 10,000 Podcasts.

Get access code:




[MENU]

Station list
↓
Help
↓
Getting the access code

 **Note**

Please note that each access code can only be used once. Please contact customer service if you should experience problems while registering the radio.

- During registration, the radio's ID is associated with your e-mail address and saved in the web interface.
- If multiple radios are registered to you and you wish to delete one of those registrations or just compare them, you can find the radio's ID as follows.



[MENU]

System settings
↓
Info
↓
Radio-ID


7.5.2 Managing favourites online

(vTuner - <http://www.wifiradio-frontier.com>)

After registering on the portal, you can search through the station archive using various filters, try out stations, and create your own favourites list from the stations listed there. The favourites list is then synchronised with your radio in a matter of seconds.

7.5.3 Opening the favourites list

To open the favourites list you created on the portal using the radio, proceed as follows:



[MENU]

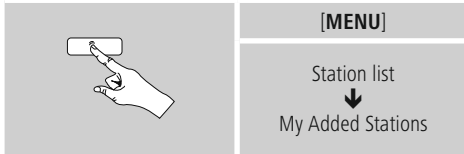
Station list
↓
My favourites



7.5.4 My Added Stations

If a station you desire is not yet available, you can add it manually to the portal, or suggest a station be added to the database (Recommend station).

- You need the web address of the stream, which can often be found on the station's website.
- You can access the added radio stations as follows:



The database is constantly expanded and maintained. Nevertheless, we hope you'll understand that sometimes there can be delays in integrating new stations and some stations are even rejected.

8. Spotify

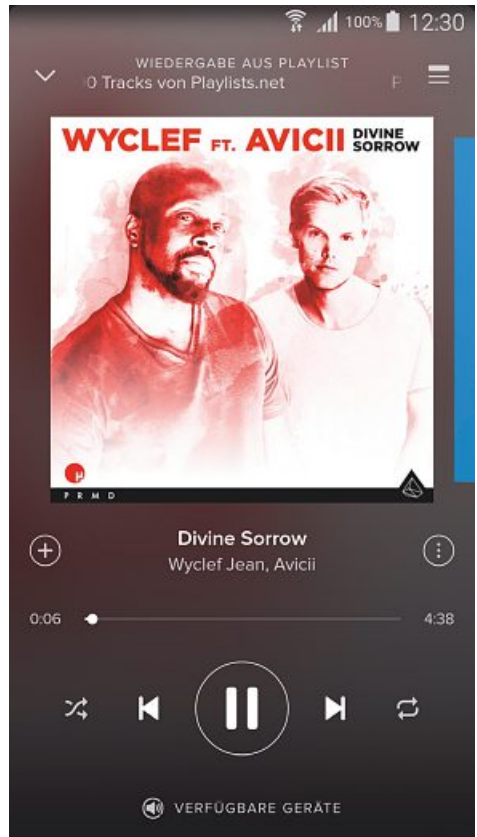
Spotify Connect gives you access to millions of songs. You can listen to them on your radio, on the go using your smartphone, or at your PC.

Requirements:

- You must have the Spotify app installed on your Android or iOS device.
- It can be downloaded from the Play Store or the Apple App Store. Once the app is installed, start it and log into your account (or, if you do not have an account, register a new one).
- You will require a Spotify Premium account (see www.spotify.de for more information).
- The radio must be on the same network as the Android or iOS device with the Spotify app installed.


Use:

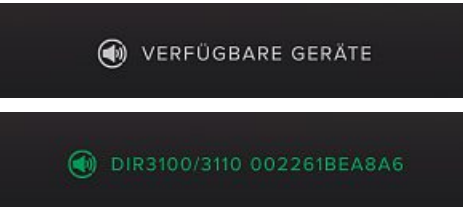
- In the Spotify app, start playback of a Playlist or title as usual.
- The usual playback information is displayed, such as the album cover, title, etc.
- At the bottom edge of the screen, the Spotify Connect logo is shown next to **Available devices**.




Playback display

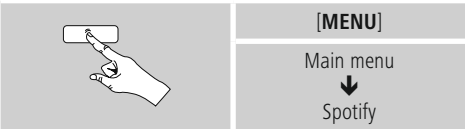


- Choose  **Available devices** to access an overview of all devices available on the network.
- Select the radio. The audio is now played back on the radio.



Once the connection has been established, the Spotify Connect logo  and the device designation are displayed in green.

After successful initial connection:
From the main menu or after pressing **[MODE]** repeatedly, activate **Spotify (Spotify Connect)** mode.

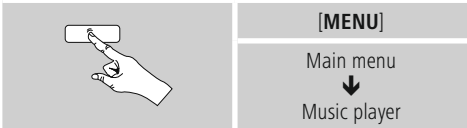


- Press **[▶▶]** to begin playback.

9. Music player (UPNP, USB)

This operating mode enables the playback of MP3, WMA or FLAC files stored on a PC, data medium or local network.

Enable **[MODE]** operating mode by repeatedly pressing **Music player**.



Alternatively, press **[MEDIA]** on the remote control to directly select this operating mode.



9.1 Playback from a computer (streaming)

You can manage the radio and stream music to it from your computer.

The following explanation assumes your computer's operating system is Windows 8. If you use a different operating system and require assistance, or if you have any other questions, please contact our customer support team.

Requirements:

- The radio and the computer must be on the same network.
- The radio must be authorised as a playback device on the computer.

Proceed as follows:

→ **Control Panel** → **Network and Internet** → **View network computers and devices**

The radio should be shown here.

- Right-click on the icon or designation of the radio and choose **Allow streaming to this device**.
- Right-click again on the icon or designation of the radio and choose **Show device website** to change the friendly name of the device.
- A new browser window opens. You can make the desired changes here.

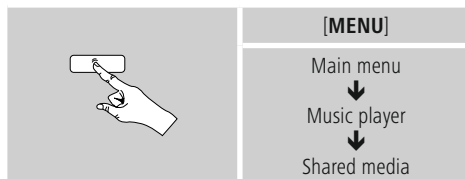
Use:

- The radio can now access shared directories on the computer, and you can stream audio files to the device for playback.
- The music directory of your music library is enabled as standard.
- Create and manage shared folders using Explorer or Windows Media Player.
- Right-click on the desired music file, choose **Play To**, and then select the designation of the radio.
- The radio begins playback of the music file.

9.2 Playback from the network – Accessing files using the radio

To access one of the existing network shared files directly from the radio, proceed as follows:

From the main menu or after pressing **[MODE]** repeatedly, activate **Music player** mode.



- Choose the correct device (home server, PC, etc.) and press **[OK]** to open the list of shared folders on that device.

You can now search for files, open a Playlist, or search through the entire shared music folders. If you want to search through the entire selection of music, there are other sorting functions available (Album, Artist, Genre, Folder, etc.) that can help you find the desired file more quickly.

Note

These functions are only available if the ID3 tag and other file information have been maintained on the source device.

Prune servers:


To reset the list of servers connected to so far, press **[OK]**. If you confirm by choosing **YES**, then all Common Media will be deleted.



9.3 Playback of Playlist


You can create a local Playlist on the radio, in which you save files shared on the network or from connected data storage devices.

- Under **Shared media/ USB playback**, choose the file to be added to the Playlist.
- Press and hold **[OK]** for approx. 3 seconds until the display shows the message **Added to Playlist**.

 **Note**

You can also use Playlists that were created on your Windows PC. (WPL = Windows Playlist). For example, Windows Media Player is suited for this purpose.

- To go directly to the Playlist, do as follows:




[MENU]

Main menu
↓
Music player
↓
Playlist

- To remove individual files from the Playlist, choose the file and then press and hold **[OK]** for approx. 3 seconds.
- Confirm Delete from My Playlist by choosing **YES** to delete the file from the Playlist.

- To delete the entire Playlist, proceed as follows:




[MENU]

Main menu
↓
Music player
↓
Clear playlist

9.4 General playback options

These playback options, which are valid for all playback under Music player, can be found here:



[MENU]

Main menu
↓
Music player
↓
Repeat / Shuffle

Repeat play: On / Repeat play: Off

To turn the function **On** and **Off**, press **[OK]** repeatedly.

If this function is activated (**Repeat play: On**) the current track is repeated.

Shuffle play: On / Shuffle play: Off

To turn the function **On** and **Off**, press **[OK]** repeatedly.

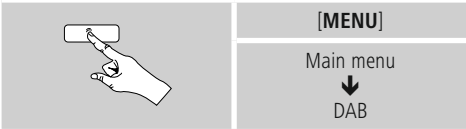
If this function is activated (**Shuffle play: On**) the radio plays all tracks in random order.



10. DAB

The radio receives all established digital radio frequencies in the range of 174 MHz to 240 MHz (band III, channel 5A to 13F).

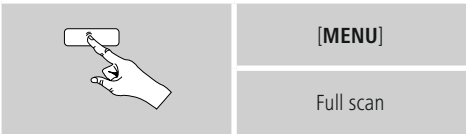
- Enable **[MODE]** operating mode by repeatedly pressing **DAB**.



10.1 Search/ Automatic search

The automatic DAB channel search scans the DAB band III for available stations. After the station search, all interference-free stations are saved in alphabetical order. In Stations list a **?** is displayed in front of the station names of stations found during a previous scan but which cannot currently be received. The automatic DAB station search starts automatically when DAB mode is started for the first time; it is indicated by **Scanning...** and a status bar on the display.

If you would like to start the search again, proceed as follows:



10.2 Manual station search

With the manual station search function you can search through individual frequencies and channels. If you know the frequency of the desired station and the automatic station search failed to find it, use this feature to set the reception frequency directly.

Proceed as follows, choosing a frequency range between 5A and 13F:



The **Stability** bar indicates the current signal strength. The marking along the bar indicates the value required for interference-free reception. If this value is not reached (the bar is empty), then the signal strength is not sufficient on this channel.

Note

- DAB/ DAB+ permits the transmission of several stations within a single frequency block. When sorting by Ensemble the stations are displayed according to how they are distributed across the frequency blocks.

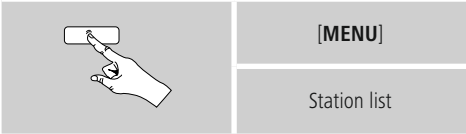


10.3 Station list

You can call up the station list in DAB mode at any time. There are two options for doing this.

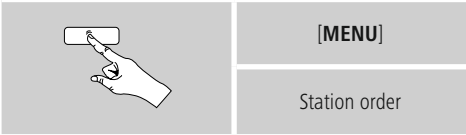
a) If a station is already playing, simply press [◀] or [↺]. The radio will then display the station list.

b)



10.4 Sort station list

By default the radio sorts stations into alphabetical order. You can also sort by signal strength or Ensemble. To change the sorting order, proceed as follows:

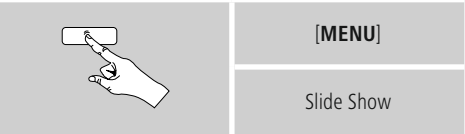


10.5 Slideshow/Station information

(Picture with text/ full screen)

Many digital radio stations in the DAB+ network provide additional information, which can be displayed on a colour screen. This could be pictures from the studio, news, weather information, or adverts, for example. By default, the radio displays these “slides” in full screen. Alternatively, a mix of pictures and text, such as is the default for internet radio, can be displayed. To switch between the display modes, press [OK] while a station is playing. The display will switch modes.

Alternatively, you can set the default mode in the DAB menu. To do so, proceed as follows:



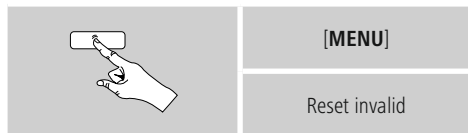
Note

Please note that when a station is selected, it can take a few seconds before the image information is loaded. Some stations transfer only the station logo and do not transfer further slides.



10.6 Edit station list

To remove stations that are not currently in the reception area, from your station list, proceed as follows:



If you answer **YES**, then all currently unavailable stations will be removed from the station list.

10.7 Presets

You can save up to 30 of your favourite stations for quick and direct access.

10.7.1 Save favourites

- Set the station that you would like to save as a favourite station preset.
- If the station is received, press and hold **[FAVORITES]** on front of the radio.



An overview window with the station presets should open after approx. 2 seconds.

- You can switch between the station presets (1 to 30) with the navigation keys **[▲]** / **[▼]**.
- Press **[OK]** to save the station on the desired station preset.

10.7.2 Access favourites

Press **[FAVORITES]** to open the overview window with the list of saved stations.



Use **[OK]** and **[▲]**, **[▼]**, **[▶]** and **[◀]** to select one of your favourites.

Note

Favourites cannot be deleted. If all 30 station memory slots are filled and you wish to save a new station, choose one of the occupied slots. The station in this slot will be overwritten with the new station.

10.7.3 Management of favourites with the remote control

Favourites 1-10

The remote control enclosed has number keys 1-0 (0 \neq 10). A favourite can be assigned to each of these number key.

- To save a favourite, press and hold the corresponding number key on the remote control (approx. 3 seconds).
- The radio confirms that the favourite has been saved by displaying Preset stored.
- To call up a favourite, briefly press the corresponding number key on the remote control.

Favourites 1-30 (alternative to number keys)

- Press and hold **[FAVORITES]** approx. 3 seconds to save a station on one of the 1-30 favourite station presets. An overview window with the station presets should open after approx. 2 seconds.
- You can switch between the station presets (1 to 30) by pressing the **favourite keys [+]/[-]** by turning **[OK]**.
- Press **[OK]** to save the station on the desired station preset.
- To call up a favourite, briefly press **[FAVORITES]**, select the desired station preset by pressing the **favourite keys [+]/[-]** by turning **[OK]** and confirm the selection by pressing **[OK]**.



10.8 DRC (Dynamic Range Control)

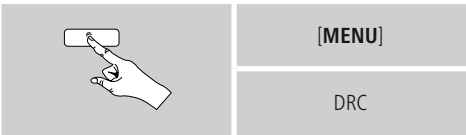
Some radio stations in the DAB network support an audio level control that is activated at varying volumes during playback. If the audio level suddenly rises during playback, DRC automatically reduces the volume. The same happens if playback suddenly becomes quieter, with the radio then increasing the volume. This radio has three different settings for DRC:

DRC high: total equalisation of different volumes. Strong compression can audibly reduce the dynamics of a music title.

DRC low: partial equalisation of different volumes. More subtle compression, without too much loss of dynamics.

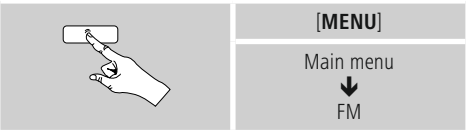
DRC off: no equalisation.

Proceed as follows to do the settings:



11. FM

From the main menu or after pressing [MODE] repeatedly, activate operating mode **FM (FM Radio)**:



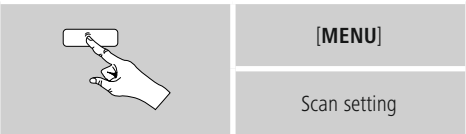
Alternatively, press [FM] on the remote control to switch directly to this operating mode.

Stations that broadcast additional information regarding the station and the programme, are highlighted on the display with an RDS icon (Radio Data System).

Additional information were displayed by pressing [INFO].

11.1 Scan setting

The search run setting allows you to determine whether stations with low signal strength are ignored during the automatic search run. Proceed as follows:



- To have the search run stop only at stations with high signal strength, confirm the subsequent query by selecting **YES**. Otherwise, the search run will stop at every station for which a signal is received.



11.2 Automatic station search

- Press and hold **[tuning]** until the automatic station search starts.
- The radio stops the search and starts playback when it finds a station.
- Press **OK** again to continue the search until the next station is found.

11.3 Manual station search

When you make station settings manually, you can define the desired frequency yourself and tune into stations that were ignored during automatic station search because their signals were too weak.

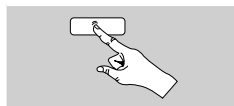
- Press the navigation key **[◀] [▶]** (**[◀]**: - 0.05MHz / **[▶]**: + 0.05 MHz) until you see the desired frequency. Wait a moment until playback of the received station signal begins.

11.4 Presets

You can save up to 30 of your favourite stations for quick and direct access.

11.4.1 Save favourites

- Set the station that you would like to save as a favourite station preset.
- If the station is received, press and hold **[FAVORITES]** on front of the radio.



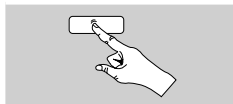
[FAVORITES]

An overview window with the station presets should open after approx. 2 seconds.

- You can switch between the station presets (1 to 30) with the navigation keys **[▲] / [▼]**.
- Press **[OK]** to save the station on the desired station preset.

11.4.2 Access favourites

Press **[FAVORITES]** to open the overview window with the list of saved stations.



[FAVORITES]

Wählen Sie mithilfe von **OK** und **[▲]**, **[▼]**, **[▶]** und **[◀]** einen der Favoriten Off.

Use **OK** and **[▲]**, **[▼]**, **[▶]** and **[◀]** to select one of your favourites.

Note

Favourites cannot be deleted.

If all 30 station memory slots are filled and you wish to save a new station, choose one of the occupied slots. The station in this slot will be overwritten with the new station.

11.4.3 Management of favourites with the remote control

Favourites 1-10

The remote control enclosed has number keys 1-0 (0 \neq 10). A favourite can be assigned to each of these number keys.

- To save a favourite, press and hold the corresponding number key on the remote control (approx. 3 seconds).
- The radio confirms that the favourite has been saved by displaying Preset stored.
- To call up a favourite, briefly press the corresponding number key on the remote control.

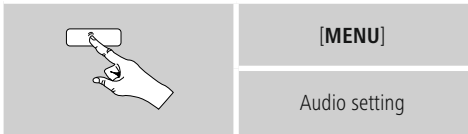


Favourites 1-30 (alternative to number keys)

- Press and hold **[FAVORITES]** approx. 3 seconds to save a station on one of the 1-30 favourite station presets. An overview window with the station presets should open after approx. 2 seconds.
- You can switch between the station presets (1 to 30) by pressing the **favourite keys [+]/[-]** by turning **OK**.
- Press **OK** to save the station on the desired station preset.
- To call up a favourite, briefly press **[FAVORITES]**, select the desired station preset by pressing the **favourite keys [+]/[-]** by turning **OK** and confirm the selection by pressing **OK**.


11.5 Audio setting

For some stations with a weak signal, quality can be slightly improved by playing them in mono quality. You can enable this function in the menu, and the radio will automatically switch to mono reception when signal quality is poor. To change the audio setting, proceed as follows:



12. Bluetooth®

You can pair your terminal device with the radio using Bluetooth and use it as a playback device. You can control playback directly on the terminal device. You can adjust the volume on the radio, as well.

 **Note – Bluetooth®**

- Check whether your mobile device (smartphone, tablet PC. etc.) is Bluetooth® capable.
- Note that the maximum range for Bluetooth® is 10 metres without obstacles such as walls, people, etc.
- The Bluetooth® connection may be disrupted by other Bluetooth devices/ connections in the vicinity.
- It is only possible to connect the radio to one terminal device.
- Note that compatibility depends on the supported Bluetooth® profiles as well as the Bluetooth® versions being used. (see Technical Data, operating instructions of the terminal device in use)

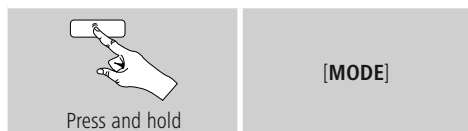
After pressing **[MODE]** repeatedly, activate operating mode Bluetooth:



12.1 Bluetooth® pairing

Make sure that your Bluetooth® capable terminal device is on and Bluetooth is activated.

- Enable Bluetooth® operating mode on the radio by repeatedly pressing **[MODE]**:



- Open the Bluetooth® settings on your terminal device and wait until **DIT1000MBT** appears in the list of Bluetooth devices found.
- If necessary, start searching for Bluetooth® devices on your terminal device.
- Select **DIT1000MBT** and wait until the radio is listed as connected in the Bluetooth® settings on your terminal device.
- Your terminal device is also shown as connected on the radio display.
- Start and control audio playback using the controls of the terminal device.

Note – Bluetooth® password

Some terminal devices require a password in order to connect to another Bluetooth® device.

- If your terminal device requests a password for connection to the radio, enter **0000**.

12.2 Automatic Bluetooth® connection

(after successful pairing)

- Terminal devices already paired with the radio are automatically saved on the radio.
- If you are pairing the terminal device with the radio for the first time, proceed as described in **12.1. Bluetooth® pairing**.
- Make sure that your Bluetooth® capable terminal device is on and Bluetooth is activated.
- Press **[MODE]** repeatedly until the terminal device you would like to pair with the radio is shown on the display.
- The devices will be automatically connected.
- If necessary, open the Bluetooth® setting on your terminal device and select **DIT1000MBT**.
- Start and control audio playback using the controls of the terminal device.

Note – Connection impaired

After the radio and terminal device have been paired, a connection is established automatically. If the Bluetooth connection is not established automatically, check the following:

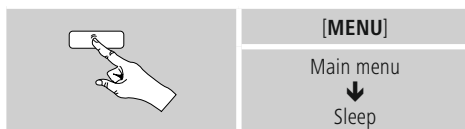
- Check the Bluetooth® settings of your terminal device to see whether **DIT1000MBT** is connected. If not, repeat the steps listed under Bluetooth® pairing.
- Check whether your terminal device and the radio are less than 10 metres apart. If not, move them closer together.
- Check whether obstacles are impairing the range. If so, move the devices closer together.

13. Sleep

The radio has a sleep function, after a defined time the radio switches to standby mode.

- Repeatedly press **[SLEEP]** on the remote control to set the desired time interval (Sleep OFF/15/30/45/60/90/120 minutes).

Alternatively, set the time interval from the main menu:



- After the defined time the radio switches to standby mode.
- Press **[⏻]**, to turn the radio back on.
- If a time interval is already activated, you can change or disable it at any time by again pressing **[SLEEP]** on the remote control.

Note

There is a separate setting for the backlight when the timer (snooze) is activated. For example, it can be set to be dimmer than in normal operation. **15.9. Backlight**.



14. Alarms

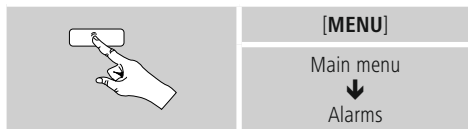
The Radio has two individually adjustable alarm times.

14.1 Alarm settings

- You can access the alarm settings as follows:



- Or:



- Alarm 1 and alarm 2 are configured identically. So you can save two different alarm times. Select alarm 1 or 2 and then make the following settings by means of **OK**:

Enable:

Choose when the alarm is to activate:

→ Off – Daily – Once – Weekdays – Weekends

Date and time:

If you selected **Once**, enter the date and time for the one-off alarm.

Time:

First choose the hour, then the minute at which the alarm is to activate.

Mode:

Set whether you wish to be woken by an alarm tone (**Buzz**), by **DAB**, **FM** or by the **Internet radio**.

Preset:

If you selected **Internet radio/ DAB/ FM**, choose which station or podcast you wish to be woken with. You can choose any of the 30 favourite station slots or the **Last listened**.

Volume:

You can set the volume at which the alarm sound should be played. This setting makes it irrelevant how loud you last listened to the radio.

Save:

Confirm this menu item to complete your alarm settings.

Note

- When using **Internet radio** for the alarm sound take care that the internet connection will be available at the time of the alarm. If no internet connection is available the radio instead uses the wake-up buzzer (**Buzz**).
- It is recommended to allow the radio to update the time automatically. This ensures that the time is always correct even if there is a separation of power supply – for example a power cut.

Note – Alarm/multi-room

- When using and setting the alarm function on a device that belongs to a multi-room group, please note that this device automatically leaves the group at the time of the alarm.
- This behaviour prevents activation of the alarm on all devices that belong to the group.
- The device in question does not automatically rejoin the group after the alarm has been stopped, but must be added manually.

14.2 Activating/ deactivating the alarm

- Confirm the menu item **Save** in alarm settings to activate the alarm.
- Disable the alarm by setting the **Mode: to Off**.



15. System settings

You can modify all settings and access important information about the radio in the System settings.

15.1 Equaliser

The equaliser allows you to adjust the sound of the radio to suit your preferences by amplifying or reducing the amount of bass or treble in the audio . You can choose from preconfigured profiles, adjusted to suit a variety of music Genres, or create your own custom profile.

- To set the Equaliser, proceed as follows:

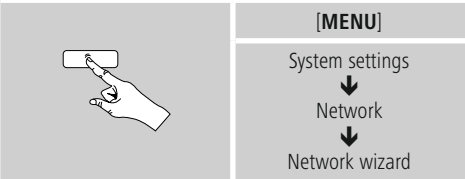


15.2 Network

15.2.1 Network wizard – Configuration of internet connection / Automatic search

The **network wizard** supports you to set up a connection between the radio and internet. Hereby you can choose between a wired LAN connection and a wireless connection using WLAN/Wi-Fi. More methods of configuration and detailed information are amplified subsequently.

- You can start the Network wizard as follows:



- When the wizard is started, the radio searches for WLAN (WiFi) connections and then shows a list of the available networks.
- At the bottom of the list are options to restart the search ([Rescan]), select a wired connection ([Wired]) or configure the connection manually ([Manual config.]).
- If your network is not found or the SSID (Service Set Identification, that is, the name of your network) is not shown, the network may be hidden or out of range. In this case, try manual configuration or connecting by **LAN** cable.



15.2.2 Wireless network connection (WLAN)

Depending on the network, there are a number of ways to connect to it. Networks that support connection via WPS (Wi-Fi Protected Setup) are identified in the list as **[WPS]**. Other connections are either open networks or connections protected with a PSK, or Pre-Shared-Key.



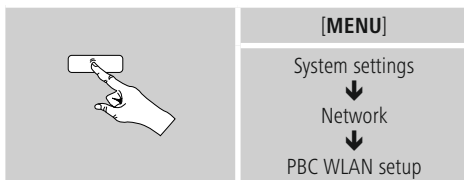
WPS-/PSK-/ open network connection

WPS allows simple and nevertheless protected connection of the radio to the network. Two options are available for this purpose: The connection can be set up by means of PBC, or Push-Button Configuration, or by the PIN procedure, in which the web interface of your router prompts you to enter a randomly generated sequence of numbers.

PBC setup

- Select your desired network. (Indicated by the prefix **[WPS]**).
- In the WPS menu, choose the Push Button option and confirm your selection by pressing **OK**.
- Press the WPS button on your router or current access point. This can often be done using the web interface, as well.
- Consult the operating instructions of your router or access point for details.
- Once the process has been started on the router or access point, the radio should be able to find and connect to the network.

- Alternatively, PBC setup can be initiated from the internet settings of the radio:



PIN setup

- Select your desired network. (Indicated by the prefix **[WPS]**)
- In the WPS menu, choose the **Pin** option and confirm your selection by pressing **[OK]**.
- The radio generates an 8-digit code, which must be entered into the web or user interface of your router or access point.
- Consult the corresponding handbook for details on configuring the router or access point.

Skip WPS / Pre-Shared Key (PSK) setup

- Choose the item **Skip WPS** to proceed to key entry.
- In networks that do not support WPS, you will go directly to key entry.
- In the input screen, enter the whole key and then confirm with **OK**.
- If the key was entered correctly, the radio connects to the access point and establishes the internet/network connection.

Note

- Often the Pre-Shared Key is printed on the back or bottom of the router or access point.
- When entering the key, take notice of capitalisation.



Open network

Note

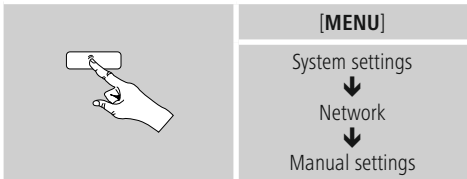
- We recommend against establishing unsecured connections and advise you to always protect your network against unauthorised access.
- If you plan to use an open network, you just have to select the network ID from the list of available networks and confirm. The radio then connects immediately to the network.

15.2.3 Wired network connection (LAN)

- Connect the radio to the router using a LAN cable. This method of direct connection is the most reliable and least susceptible to interference.
- The cable connection is listed amongst the available connections as **Wired**. Simply select it to proceed. If the DHCP server of the router or access point is active, then the connection is now established automatically.
- To find out how to determine whether the DHCP server is active, please consult the operating instructions of your router or access point.

15.2.4 Manual configuration of network connection – wireless (WLAN) and wired (LAN)

- To manually configure the network connection, proceed as follows:



Manual configuration wired (LAN) – DHCP enable

- Select the option **Wired**.
- Select the option **DHCP enable**.
- The connection is now established. No further setting adjustments are required.

Manual configuration wired (LAN) – DHCP disable

- Select the option **Wired**.
- Select the option **DHCP disable**.
- Enter the necessary network information, such as the IP address, subnet mask, gateway address and DNS (primary and secondary). Find this information in the web interface of your router or access point, or ask your network administrator. Once all the information has been entered correctly, confirm to proceed. The radio now attempts to establish the connection.

Manual configuration wireless (WLAN) – DHCP enable

- Select the option **Wireless**.
- Select the option **DHCP enable**.
- In the input screen, enter the whole SSID (network name) and then confirm with OK.
- Now choose the security standard used by the network. This can be found in the configuration options of your router or access point.
- Depending on the encryption used, you may need to enter the network key before the connection is established.

Manual configuration wireless (WLAN) – DHCP disable

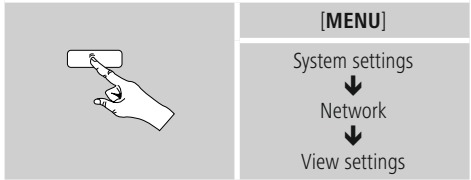
Manual configuration wireless (WLAN) – DHCP disable

The method described here assumes the DHCP server is active (**manual wireless configuration (WLAN) – DHCP enable**). However, the network information such as IP address, subnet mask, gateway address, and DNS (primary and secondary) must still be entered. Find this information in the web interface of your router or access point, or ask your network administrator. Once all the information has been entered correctly, confirm to proceed. The radio now attempts to establish the connection.



15.2.5 View settings

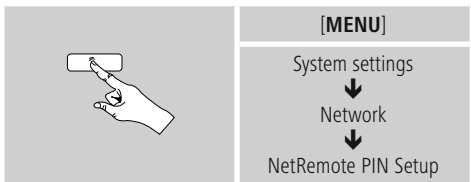
Here you can find all the most important information about all network connections currently used or configured on the radio, such as: MAC address, WLAN region, DHCP active/ disabled, SSID, IP address, subnet mask, gateway address, DNS (primary and secondary), etc.



15.2.6 NetRemote PIN Setup / UNDOK

The radio can be controlled using the application **UNDOK**. For this, you have to have installed the **app** on your terminal device (for example smartphone or tablet PC) and your device has to be in the same network as your radio. The PIN saved in the radio is to increase security and prevents other users from connecting with the radio. If the app is started on your terminal device (for example smartphone or tablet PC) and it tries to connect with the radio, a window will appear on your device requiring you to enter the PIN.

- You can find and change the PIN as follows:

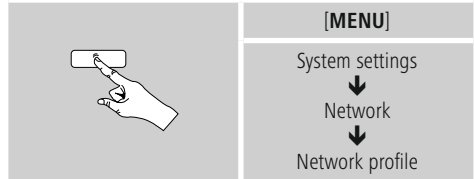


- The radio PIN is set to **1234** by default.
- Use **OK** to make changes.
- Confirm your changes by choosing **OK**.

15.2.7 Network profile

The radio automatically saves all successfully connected network profiles. This means that re-establishing these connections (for example, after the radio was disconnected from the power supply) does not require you to re-enter the network access information.

- To remove network profiles individually, proceed as follows:



- Select a network profile and press **OK** to delete it.
- Confirm the prompt querying if you want to delete the profile with **YES**.
- A profile that is currently active, or that is in use, cannot be deleted.



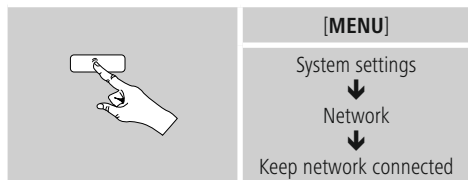
Note - Datensicherheit

- Before giving or selling the radio to someone else, we recommend performing a Factory Reset.
- This will completely and permanently delete all network information and connections stored on the device.



15.2.8 Keep network connected

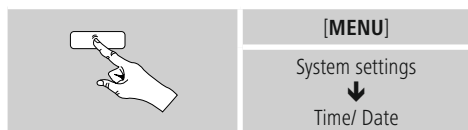
This setting is a radio energy-saving function.



If this feature is disabled (**NO#**), the network module will be switched off whenever the radio is not actively using the network connection (such as in standby mode). This means the radio will not be accessible via the network from your PC, smartphone or tablet. You should enable (**YES #**) this menu item if you want to use streaming or control functions via the app. This function is disabled by default.

15.3 Time/ Date

To access the time settings, proceed as follows:



Auto update

Update from Network

Choose this option to set the time and date automatically from the internet. Set the timezone of your current location (**Set timezone**) and, if desired, turn on automatic adjustment between summer time and winter time (**Daylight savings → ON**).

Update from DAB/ FM

If automatic time and date adjustment is activated, the device receives time and date information from the station over the FM/DAB/DAB+ radio network. This is the best way to ensure that the clock will run accurately and the alarm will trigger at the correct time, even after power outages.

No update

The time and date (**DD-MM-YYYY**) must be set manually; no automatic calibration takes place.

Set Time/ Date

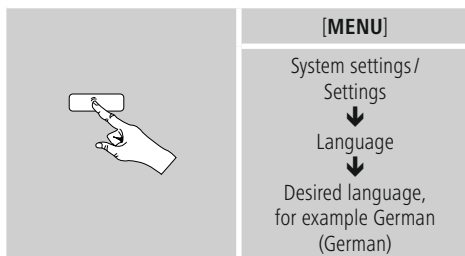
Set the date (**DD-MM-YYYY**) and time (**hh:mm**) manually using **OK**.

Set format

Choose between 12 and 24 hours format.

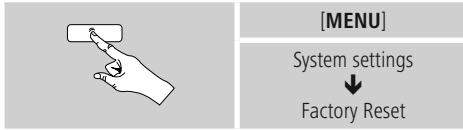
15.4 Language

To change the menu language from that selected at first-time startup, proceed as follows:



15.5 Factory Reset

To reset the radio to the factory default settings, proceed as follows:



- Confirm the following prompt with **Yes** to reset the radio to the factory default settings. All settings made previously are deleted.

Note

- Resetting to the factory default settings can solve some problems and malfunctions.
- However, all settings made previously, such as custom equaliser presets, favorites, and network profiles, are permanently deleted.

15.6 Software update

We are constantly developing new software features and improvements for our radios to fix problems, add functionality, etc. We recommend that you keep your radio's software up to date.

- Proceed as follows:



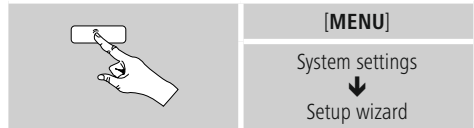
- Set **Auto-check setting to YES** to have the radio automatically check for new software updates at regular intervals. (Recommendation)
- Choose Check now to manually **start a check for software updates**.

Warning

- Make sure that the radio has a stable power supply before you start a software update.
- Power supply failure during a software update can cOffe irreparable damage to the radio.

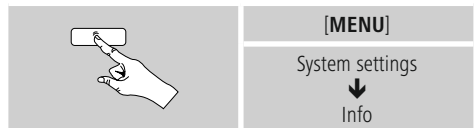
15.7 Setup wizard

You can restart the setup wizard (**5.4.1. Setup wizard**) at any time by proceeding as follows:



15.8 Info

- To have the radio display current information about its hardware and software (version numbers, device designation, radio ID, etc.), proceed as follows:

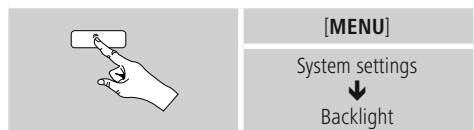


- If you have already registered your radio on the online portal of Frontier Silicon (<http://www.wifiradio-frontier.com>), then you can find out the radio ID there, as well.

15.9 Backlight

The backlight can be configured for each operating mode (Operation Mode, Standby Mode, Slumber Mode) separately.

- Proceed as follows:



- For the operation modes **Operation Mode** and **Slumber mode**, select between various brightness levels.
- For **Standby Mode**, you may also choose a brightness level for the backlight when the radio is in standby (**Standby Level**). Alternatively, you can set the backlight to turn off completely in standby (**Standby Level → Off**).
- Choose a time interval for **Timeout**. When the radio is in standby, press **OK** to illuminate the display at the brightness level set for that operating mode for the selected interval of time.
- Alternatively, you can disable this feature (**Timeout → Off**).

Alternatively, press [🔊] on the remote control to directly adjust the backlight setting for the current operating mode.

15.10 Color theme

To change the color scheme of the display (Color of text and background), proceed as follows:



15.11 AUX: Auto-Standby

In **Aux in (Auxiliary Input)** operating mode, the radio switches to standby mode after 15 minutes, by default. To disable (**NO**) or activate (**YES**) this feature, proceed as follows:



16. UNDOK – everything in the palm of your hand



The UNDOK app, developed by Frontier Silicon, gives you full control of radios and speakers from your smartphone. Whether you are setting up the device for the first time, specifying settings for the equaliser and multi-room, or managing your favourite stations – the UNDOK app lets you access all the features from your smartphone or tablet, thereby offering you greater convenience.

16.1 Interface/layout of the UNDOK home screen

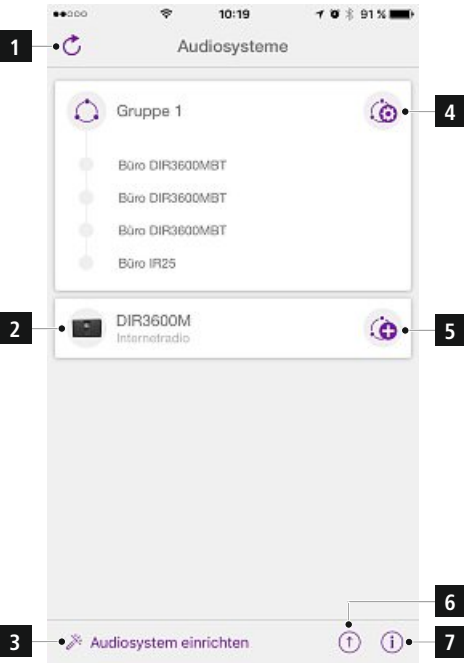


Bild 1



1	Update the audio system list
2	Preview for ungrouped radios
3	Set up new audio system
4	Icon for managing an existing multi-room group
5	Create a new multi-room group with this device
6	Check for system update for all devices
7	Further information, such as app info, change app theme, and data logging

16.2 First-time setup of the device with UNDOK

The first time you switch on an UNDOK-enabled product from Hama, or when you have set it to the factory settings, it creates a micro access point – a separate Wi-Fi network that you can connect to with your tablet or smartphone.

16.2.1 Procedure for iOS users

- Open the UNDOK app on your iPhone or iPad.
- Tap the **Set up audio system** menu item.
- Make sure that the radio or speaker is in SETUP mode. Set the product to the factory settings, if necessary. Confirm the query with **Next**.
- The UNDOK app now prompts you to connect to the product's Wi-Fi network using the iPhone/iPad settings – to do so, switch to the system settings on your iPhone and select the Wi-Fi network (for example, Setup Hama DIR3120LED). Then return to the UNDOK app and tap **Next**.
- Now choose a name for the radio (for example, Office DIR3120) and confirm your entry with **Next**.
- This takes you to the date and time settings – here you set the time format, time source and time zone.
- The various network configuration options are then offered to you (where applicable, Wi-Fi, WPS and Ethernet). Tap the desired method; the UNDOK app switches to the next window.
- Depending on the selected method, you can now select and configure the desired Wi-Fi network, set up a WPS connection or set up the connection using a LAN cable.
- Finally, the radio connects to the network; by tapping **Start using my audio system**, you will be able to use the device in the UNDOK app.



16.2.2 Procedure for Android users

- Open the UNDOK app on your tablet or smartphone.
- Tap the **Set up audio system** menu item.
- Make sure that the radio or speaker is in SETUP mode. Set the product to the factory settings, if necessary. Confirm the query with **Next**.
- On the following page, you will find a list of all available Wi-Fi networks as well as the suggested audio systems; the Hama product (for example, Setup Hama DIR3120LED) should be listed here. Tap the corresponding Wi-Fi network.
- Now choose a name for the radio (for example, Office DIR3120) and confirm your entry with **Next**.
- This takes you to the date and time settings – here you set the time format, time source and time zone.
- The various network configuration options are then offered to you (where applicable, Wi-Fi, WPS and Ethernet). Tap the desired method; the UNDOK app switches to the next window.
- Depending on the selected method, you can now select and configure the desired Wi-Fi network, set up a WPS connection or set up the connection using a LAN cable.
- Finally, the radio connects to the network; by tapping Start using my audio system, you will be able to use the device in the UNDOK app.

16.3 General control of a device or group

To control a configured device, tap the relevant device/group in the selection list on the UNDOK home page. This takes you to the product's playback screen; the following functions are available:

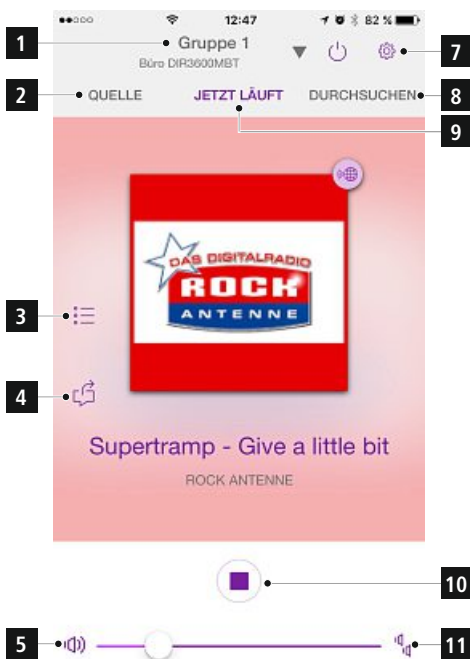



Bild 2

1	Open the home page (all audio systems)
2	Selection of the various sources (dependent on the active device/the devices in the group)
3	Open the favourites list (storing and selecting favourites)
4	Share current station
5	Volume control for the group or active device
6	Advanced settings (equaliser/date/factory settings, dependent on the device)
7	Switch device/group to standby
8	Browse current source
9	Playback screen of the device/group
10	Display the function buttons (Play, Next, Previous), dependent on the source
11	Volume control for the individual devices of a multi-room group

16.4 Creating/managing multi-room groups

If there are several multi-room-enabled devices in your network, they will appear in the selection list with a **+** symbol after their name. The device that you have selected in the list by tapping the  icon will be the master when the group has been created. This means that audio being played on the master is continued in the group. Once you have tapped the icon, a screen appears in which all compatible devices are listed. Tap each of the devices you would like to have in the group, and confirm your selection with **Done**.

In this window, you can also delete an existing group and thereby dissolve it, or give the group a new name.

(See Figure 3 — **Group name**)

Please note that it is sufficient if one device in the group supports a source such as Spotify, Bluetooth* or CD, and can share it with the other devices in the group.

* When playing audio via Bluetooth, the source (smartphone, tablet, PC) must be located near the device in which the corresponding receiver is integrated.

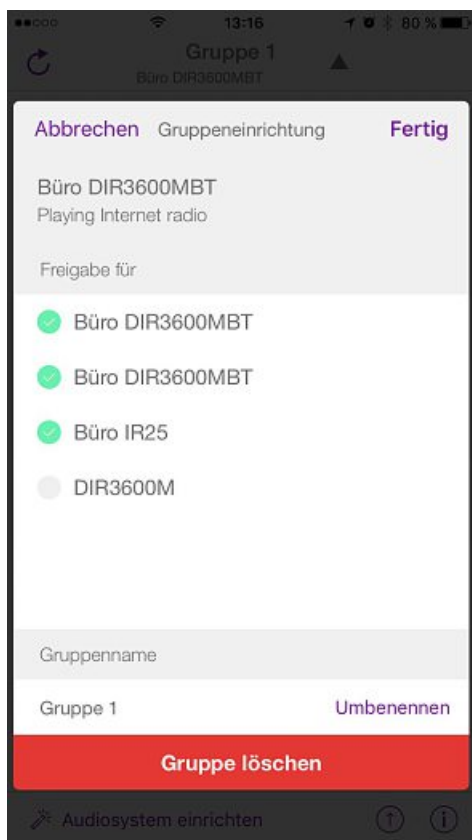


Bild 3



16.5 Multi-room setup on the radio

16.5.1 General information:

- All radios must be connected to the same network via LAN cable or Wi-Fi.
- This section explains how multi-room can be set up on the devices and managed.
- A multi-room group can consist of up to five devices (one master and four clients).

Note

Master and client – explanation

- The master is the source device and transfers the audio it is currently playing to all other devices (clients) in the group.
- When playing audio via Bluetooth or from a CD, only the device that has the corresponding receiver or playback technology can be the master.

The following modes are available for a multi-room group (depending on whether the corresponding technology exists on the radio).

- **Spotify Connect**
- **Internet radio**
- **DAB radio**
- **FM radio**
- **Auxiliary Input**
- **Wi-Fi streaming (DLNA-compatible) and UPnP network playback**
- **USB playback**
- **CD playback**
- **Bluetooth**

16.5.2 Creating a group

- If you want to create a new group, navigate to the system settings and select **Multi-room**.
- Select **Create new group**.
- Enter a name for the new group and confirm with **[OK]**.

16.5.3 View details

- Select this menu item to obtain information on the current status of the radio/speaker in the respective group.
- The Status field shows whether the selected device is a master or client.

16.5.4 Add clients to a group

- If the selected device is already the master, you can add (further) clients using **Add to group**.
- On selecting this menu item, a list of the devices in the network is displayed. Devices with a preceding asterisk are already clients in the group.
- Only devices without an asterisk can be added as clients to the group.

16.5.5 List current clients

- Select List current clients to display all members of the current group.

16.5.6 Leave group

- The **Leave group** menu item allows you to remove the client you are currently controlling from the current group.
- Confirm the client's removal from the group with **[OK]**.

16.5.7 Delete group

- If you want to delete a complete group, select 'Delete group'.
- Note that a group can be deleted only on the master of this group.



17. Care and Maintenance

- Only clean this product with a slightly damp, lint-free cloth and do not use aggressive cleaning agents.
- If you do not use the product for a long time, turn off the device and disconnect it from the power supply. Store it in a clean, dry place out of direct sunlight.

18. Warranty Disclaimer

Hama GmbH & Co KG assumes no liability and provides no warranty for damage resulting from improper installation/mounting, improper use of the product or from failure to observe the operating instructions and/or safety notes.

19. Service and Support

Please contact Hama Product Consulting if you have any questions about this product.

Hotline: +49 9091 502-115 (German/English)

Further support information can be found here:
www.hama.com

20. Recycling Information

Note on environmental protection:



After the implementation of the European Directive 2012/19/EU and 2006/66/EU in the national legal system, the following applies:

Electric and electronic devices as well as batteries must not be disposed of with household waste. Consumers are obliged by law to return electrical and electronic devices as well as batteries at the end of their service lives to the public collecting points set up for this purpose or point of sale. Details to this are defined by the national law of the respective country. This symbol on the product, the instruction manual or the package indicates that a product is subject to these regulations. By recycling, reusing the materials or other forms of utilising old devices/Batteries, you are making an important contribution to protecting our environment.

21. Declaration of Conformity



Hama GmbH & Co KG hereby declares that the device complies with the essential requirements and other relevant provisions of Directive 2014/53/EU. See www.hama.com for the declaration of conformity with the relevant directive.





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