

# Operating instructions

## **TECHNIRADIO 4 IR**

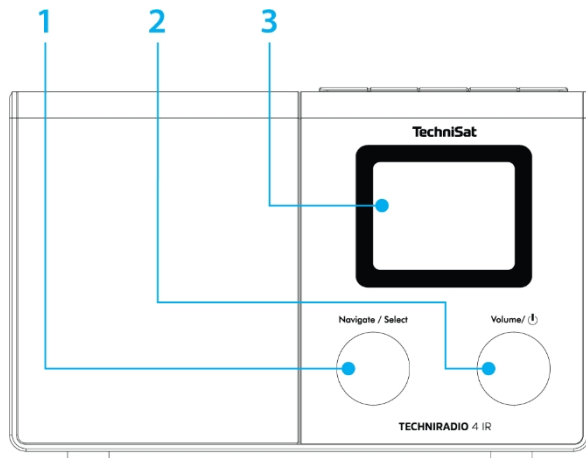
DAB+/UKW/Internet radio



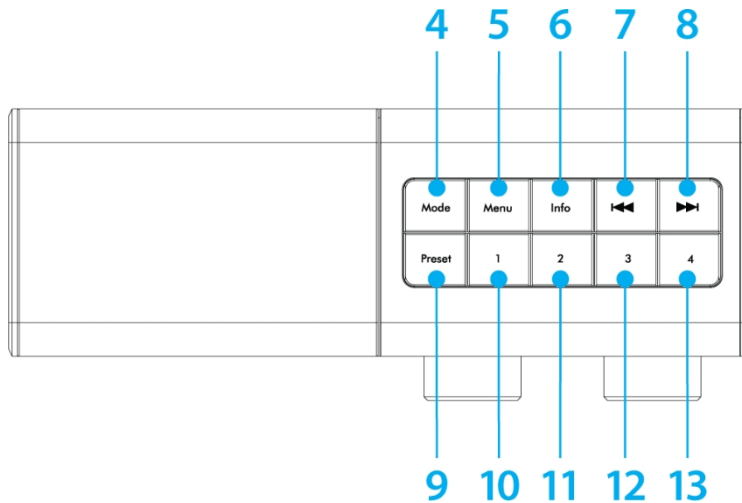
**TechniSat**

# 1 Illustrations

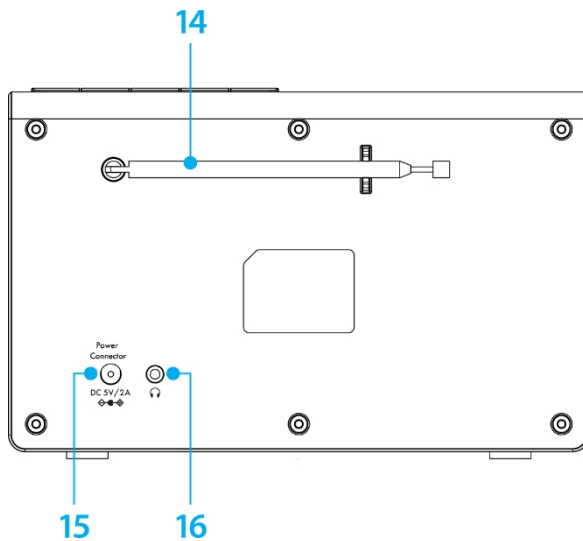
## 1.1 View from the front



## 12 Keypad



### 13 View from behind



- 1 **NAVIGATE/SELECT rotary control** (turn = select, press = apply)
- 2 **On/Standby/Volume** (turn = volume, press = switch on/off)
- 3 **Colour display**
- 4 **MODE** (source switching)
- 5 **MENU** (call up the main menu)
- 6 **INFO** (switch through displays)
- 7 **Previous title** (FM station search)
- 8 **Next track** (FM station search)
- 9 **PRESET** (favourites memory)
- 10-13 **Direct selection buttons 1...4** (favourites memory 1...4)
- 14 **Telescopic antenna**
- 15 **Power supply DC 5 V / 2 A**
- 16 **Headphone connection** (3.5mm jack)

## 2 Table of contents

<b>1</b>	<b>Figures.....</b>	<b>2</b>
1.1	View from the front .....	2
1.2	Keypad .....	3
1.3	View from behind.....	4
<b>2</b>	<b>Table of contents .....</b>	<b>6</b>
<b>3</b>	<b>Safety instructions.....</b>	<b>11</b>
3.1	Characters and symbols used .....	11
3.2	Intended use.....	13
3.3	The target group of these operating instructions.....	13
3.4	Safe handling of the TECHNIRADIO 4 IR .....	13
<b>4</b>	<b>Legal information .....</b>	<b>16</b>
4.1	Service notes .....	18
<b>5</b>	<b>Setting up the appliance .....</b>	<b>19</b>
<b>6</b>	<b>Description of the TECHNIRADIO 4 IR.....</b>	<b>21</b>
6.1	The scope of delivery .....	21

62	The special features of the TECHNIRADIO 4 IR.....	21
63	Preparing the TECHNIRADIO 4 IR for operation.....	22
63.1	Align telescopic antenna.....	22
63.2	Connecting the power supply unit.....	23
63.3	Use headphones .....	24
64	General device functions .....	25
64.1	Switch on the device .....	25
64.2	Switch off the device .....	25
64.3	Source selection .....	26
64.4	Setting the volume .....	26
64.5	Display.....	27
<b>7</b>	<b>Menu operation.....</b>	<b>29</b>
<b>8</b>	<b>Initial setup .....</b>	<b>31</b>
<b>9</b>	<b>The DAB+ (digital radio) function .....</b>	<b>33</b>
9.1	What is DAB+ and DAB+ Cable .....	33
9.2	DAB+ (digital radio) reception.....	34
9.2.1	Carry out a complete search.....	34
9.2.2	Set manually.....	35
9.2.3	Select transmitter.....	36

92.4	Store DAB+ stations in a memory location .....	37
92.5	Recalling DAB+ stations from a memory location .....	38
92.6	Overwriting/deleting a programme position memory .....	38
92.7	Signal strength .....	38
92.8	Volume adjustment (DRC).....	39
92.9	Delete inactive transmitters .....	40
92.10	Channel order .....	41
<b>10</b>	<b>FM (VHF) operation .....</b>	<b>42</b>
10.1	Switch on FM radio mode .....	42
10.2	FM (VHF) reception with RDS information .....	42
10.3	Automatic station search .....	43
10.4	Manual channel search.....	43
10.5	Search setting .....	44
10.6	Audio setting .....	44
10.7	Store FM stations in a memory location .....	45
10.8	Recalling FM stations from a memory location.....	46
10.9	Overwriting/deleting a programme position memory .....	46
<b>11</b>	<b>Internet radio.....</b>	<b>47</b>
11.1	Channel list .....	48
11.2	Course .....	49



11.3	Save favourites .....	49
11.4	Retrieve favourites .....	50
11.5	Overwriting/deleting a programme position memory .....	50
<b>12</b>	<b>Other functions.....</b>	<b>51</b>
12.1	Sleep timer .....	51
12.2	Alarm clock .....	52
12.2.1	Set up alarm clock .....	52
12.2.2	Switch off alarm clock after alarm .....	54
12.3	Equaliser .....	55
12.3.1	Customise my EQ .....	56
<b>13</b>	<b>System settings.....</b>	<b>57</b>
13.1	Internet settings .....	57
13.1.1	Connection via WLAN .....	57
13.1.2	Show settings .....	61
13.1.3	Delete network profile .....	61
13.1.4	WLAN connection in standby .....	61
13.2	Time and date settings .....	62
13.2.1	Set time/date manually .....	62
13.2.2	Time update .....	63
13.2.3	Setting the time format .....	64

13.3	Display settings .....	65
13.4	Language.....	66
13.5	Factory setting .....	66
13.6	System info .....	67
13.7	Sokwareupdate.....	67
13.8	Initial setup.....	69
13.9	Data protection .....	69
<b>14</b>	<b>Cleaning .....</b>	<b>70</b>
<b>15</b>	<b>Eliminate errors .....</b>	<b>71</b>
<b>16</b>	<b>Technical data / manufacturer's information .....</b>	<b>73</b>

### 3 Safety instructions

#### 3.1 Signs and symbols used

in these operating instructions:



Indicates a safety instruction which, if disregarded, can lead to serious injuries. can lead to injuries or death. Observe the following signal words:

**DANGER** - Serious injuries with fatal consequences

**WARNING** - Serious injuries, possibly fatal

**ATTENTION** - Injuries



Indicates a note that you must observe to avoid device defects, data loss/misuse or unintentional operation. It also describes additional functions for your device.



Warning of electrical voltage. Follow all safety instructions to avoid electric shock. Never open the appliance.

## On the device:



Indoor use - Appliances with this symbol are only suitable for indoor use.



Protection class II - Electrical appliances in protection class II are electrical appliances that have continuous double and/or reinforced insulation and no connection options for a protective conductor. The housing of an insulated electrical appliance of protection class II can partially or completely form the additional or reinforced insulation.



Your appliance bears the CE mark and fulfils all required EU standards.



Electronic devices should not be disposed of with household waste, but must - in accordance with Directive 2002/96/EC of the European Parliament and of the Council of 27 June 2002 - be disposed of with household waste.

This appliance must be disposed of properly in accordance with the Waste Electrical and Electronic Equipment Directive of 1 January 2003. At the end of its useful life, please dispose of this appliance at the designated public collection points.

### **32 Intended use**

The device is designed to receive radio programmes via DAB+, FM and the Internet. The device is designed for private use and is not suitable for commercial purposes.

### **33 The target group of these operating instructions**

The operating instructions are intended for any person who sets up, operates, cleans or disposes of the appliance.

### **34 Safe handling of the TECHNIRADIO 4 IR**

Please observe the following instructions to minimise safety risks, avoid damage to the appliance and contribute to environmental protection.

Please read all safety instructions carefully and keep them for future reference.

Always follow all warnings and instructions in these operating instructions and on the back of the appliance.



#### **WARNING!**

Never open the appliance!

Touching live parts is life-threatening!



Observe all the following instructions for the intended use of the

use of the appliance and to prevent appliance defects and personal injury.

- Do not repair the appliance yourself. Repairs may only be carried out by trained specialists. Please contact our customer service centres.
- The device may only be operated in the specified ambient conditions.
- Do not expose the appliance to dripping or splashing water. If water gets into the appliance, disconnect it from the power supply and contact the service centre
- Do not expose the appliance to heat sources that heat the appliance in addition to normal use.
- In the event of a conspicuous appliance defect, odour or smoke development, significant malfunctions or damage to the housing, contact Service immediately.
- The appliance may only be operated with the mains voltage printed on the power supply unit. Never attempt to operate the appliance with a different voltage.

- If the appliance is damaged, it must not be put into operation.
- Do not operate the appliance near bathtubs, showers, swimming pools or running/splashing water. There is a risk of electric shock and/or device defects.
- Foreign objects, e.g. needles, coins, etc., must not fall into the interior of the device. Do not touch the connection contacts with metal objects or your fingers. This may result in short circuits.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and/or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Never allow children to use this appliance unsupervised.
- Modifications to the appliance are prohibited.

## 4 Legal information



Hereby, TechniSat declares that the radio equipment type TECHNIRADIO 4 IR is in compliance with Directive 2014/53/EU. The full text of the EU

Declaration of conformity is available at the following Internet address:

[hGp://konf.tsat.de/?ID=22305](http://konf.tsat.de/?ID=22305)



TechniSat is not responsible for product damage due to external influences, wear or improper handling, unauthorised repairs, modifications or accidents.



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TechniPark

Julius-Saxler-Straße 3

D-54550 Daun/Eifel

[www.technisat.de](http://www.technisat.de)

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In the countries listed below, the device may only be operated indoors in the 5GHz WLAN range.

BE	CY	FI	FR	HU	LV	LI
LU	NL	ES	SE	UK	CH	EN

## 41 Service instructions



This product is quality-tested and comes with a statutory warranty period of 24 months from the date of purchase. Please keep the invoice as proof of purchase. With  
For warranty claims, please contact the dealer of the product.



Please note!

For questions and information or if there is a problem with this device, please contact our technical hotline:

Mon. - Fri. 8:00 - 18:00 under Tel.:  
03925/9220 1800.



Repair orders can also be ordered directly online  
at [www.technisat.de/reparatur](http://www.technisat.de/reparatur).

If you need to return the device, please use only the following address:

TechniSat Digital GmbH

Service Centre

Nordstr. 4a

39418 Staßfurt

## **5 Setting up the appliance**

- > Place the appliance on a firm, secure and horizontal surface.  
Ensure good ventilation.



Note:

- Do not place the appliance on soft surfaces such as carpets, blankets or near curtains and wall hangings. This may interrupt the necessary air circulation. This could possibly lead to an appliance fire.
- Do not place the appliance near heat sources such as radiators. Avoid direct sunlight and locations with an unusually high level of dust.

- The location must not be selected in rooms with high humidity, e.g.kitchens or saunas, as condensation can damage the appliance. The appliance is intended for use in a dry environment and in a temperate climate and must not be exposed to dripping or splashing water.
- Please note that the appliance feet may leave coloured marks on certain furniture surfaces. Use protection between your furniture and the appliance.
- Keep the TECHNIRADIO 4 IR away from devices that generate strong magnetic fields.
- Do not place any heavy objects on the appliance.
- Lay the mains cable so that nobody can trip over it. Make sure that the mains cable or power supply unit is always easily accessible so that you can quickly disconnect the appliance from the power supply!
- To connect to the mains, insert the mains plug fully into the socket.
- Use a suitable, easily accessible mains connection and avoid using multiple sockets!

- In the event of faults or smoke and odours coming from the housing, pull the mains plug out of the socket immediately!
- If the appliance is not to be used for a longer period of time, e.g. before travelling, unplug the mains plug.

## **6 Description of the TECHNIRADIO 4 IR**

### **6.1 The scope of delivery**

Please check that the scope of delivery is complete before commissioning: 1x  
TECHNIRADIO 4 IR  
1x power supply unit  
1x operating instructions

### **6.2 The special features of the TECHNIRADIO 4 IR**

The TECHNIRADIO 4 IR consists of a DAB+/ FM/Internet radio receiver with the following functions:

- You can store up to 40 DAB+/ FM/Internet stations at a time.
- The radio receives on the frequencies FM 87.5-108 MHz (analogue) and DAB+ 174.9-239.2 MHz (digital antenna).
- The appliance has a time and date display.

- Internet radio operation via WLAN
- Colour display.

## **6.3 Preparing the TECHNIRADIO 4 IR for operation**

### **6.3.1 Telescope antenna alignment**

The number and quality of the stations to be received depends on the reception conditions at the installation site. Excellent reception can be achieved with the telescopic aerial.

- > Release the telescopic aerial from the holder, straighten it and pull it out lengthways.



The exact alignment of the antenna is important, especially in the peripheral areas of DAB+ reception. On the Internet, for example, you can find "www.dabplus.de" to quickly find the location of the nearest transmitter mast.



Start the first search at a window in the direction of the transmitter mast. If the weather is poor, DAB+ reception may only be possible to a limited extent.



Do not touch the aerial while a station is playing. This

can lead to impaired reception and audio dropouts.

## **6.3.2 Connecting the power supply unit**



Make sure that the operating voltage of the power supply unit matches the local mains voltage before plugging it into the wall socket.



### **WARNING!**

Do not touch the mains plug with wet hands, risk of electric shock!



### **ATTENTION!**

Lay the mains cable so that nobody can trip over it.

- > Connect the DC plug of the power supply unit to the socket labelled **DC 5 V (15)** on the back of the TECHNIRADIO 4 IR. Then connect the power supply unit to the mains.

### 6.3.3 Use headphones



#### ATTENTION!

##### Hearing damage!

Do not listen to the radio at high volume via headphones. This can lead to permanent hearing damage. Before using headphones, set the device volume to the minimum level.




Only use headphones with a 3.5 mm stereo jack plug.

- > Insert the plug of the headphones into the **headphone socket (16)** on the back of the device. The sound is now reproduced exclusively via the headphones, the loudspeaker is muted.
- > If you want to listen via the speakers again, unplug the headset from the headset socket on the device.



## 6.4 General device functions


### 6.4.1 Switch on the device

- > First prepare the TECHNIRADIO 4 IR for operation as described in sections 6.3.1 and 6.3.2.
- > Press the **VOLUME**  **rotary control (2)** to switch on the TECHNIRADIO 4 IR.



After switching on for the first time, you must first configure the initial installation wizard. More details in chapter 8.

### 6.4.2 Switch off the device

- > You can switch the device to standby mode by pressing the **VOLUME**  **rotary control**. The date and time are shown on the display. You can change the display brightness in standby mode as described in section 13.3.

## 6.4.3 Source selection

- > The **MODE** button (4) can be used to switch between the sources **Internet radio**, **DAB+** (Digital Radio), **FM (FM)** can be switched.



The sources are represented by a symbol.



**DAB+**



**FM (FM)**



**Internet radio**

## 6.4.4 Setting the volume

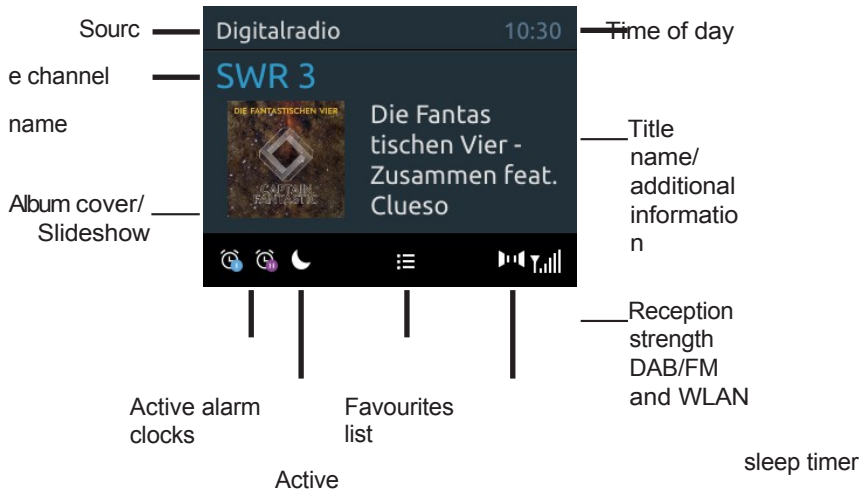
- > Adjust the volume by turning the **VOLUME**  **rotary control (2)**.



The set volume is shown on the display using a bar chart.

## 6.4.5 Display

Depending on the selected function or option, the following information is shown on the **display** (example image, the actual display may differ in colour):



Stereo sound

## 6.4.5.1 Call up display screens

- > Press the **INFO** button (**6**) several times. You have the option of displaying the following information:

In **Internet radio** mode (the selected function is marked with an "\*"):

**[Description]**, **[Genre]**, **[Reliability]**, **[Bit Rate]**, **[Audio Format]**, **[Playback Buffer]**, and **[Date]**.

In **DAB+** mode (selected function is marked with an "\*"):

**[LauLext]** (scrolling text with additional information that the broadcasters may provide), **[Signal quality]**, **[Programme type]**, **[Ensemble]**, **[Frequency]**, **[Bit rate and codec]** and **[Date]**.

In FM/UKW **mode** (selected function is marked with an "\*"):

**[Radio text]** (if broadcast), **[Programme type]** (PTY), **[Frequency]**, **[Audio information]** and **[Date]**.

## 6.4.52 Slideshow

Some DAB+ stations transmit additional information such as album cover of the current track, adverts or web data. The size of the window can be changed by pressing and holding the **NAVIGATE/SELECT rotary control**.

## 7 Menu operation

You can access all functions and settings of the TECHNIRADIO 4 IR via the menu. The menu is navigated using the **MENU** buttons and the **NAVIGATE/SELECT rotary control**. The menu is divided into submenus and contains different menu items or functions that can be activated depending on the selected source. To open the menu, simply press the **MENU** button briefly. To switch to submenus, first turn the **NAVIGATE/SELECT rotary control** to display a submenu and then press the **NAVIGATE/SELECT rotary control** to call up the submenu. An asterisk (\*) marks the current selection.



Close the menu: Press the **MENU** button several times (depending on which submenu you are in) until the current radio programme is displayed again.



Settings are only made by pressing the **NAVIGATE/SELECT rotary control** saved. If the **MENU** button is pressed in the meantime, the settings are saved.



The entry is not accepted and saved and you are taken back one step.

Functions and buttons to be pressed are described in these operating instructions

in

**feU** is shown. Display indications in **[square brackets]**.



Some texts (e.g. menu entries, station information) may be too long to be shown on the display. After a short time, these will then be displayed as a loud text.

## 8 Initial setup

When the TECHNIRADIO 4 IR is switched on for the first time, the **Initial setup wizard**.




All settings can also be changed at a later date at any time.

- > First select the menu language using the **NAVIGATE/SELECT rotary control**. Press the **NAVIGATE/SELECT rotary control** to accept the language and move to the next setting.
- > Observe the notes on data protection and press the **NAVIGATE/ SELECT rotary control**.
- > To start the initial setup wizard, use the **NAVIGATE/ SELECT rotary control** (turn) to select the **[YES]** field and press the **NAVIGATE/ SELECT rotary control**.
- > In the next step, you can select the **time format**. Select the desired setting **[12]** or **[24]** and press the **NAVIGATE/ SELECT dial** to move to the next step.
- > Here you can select the source (DAB+, FM or Internet) from which the TECHNIRADIO 4 IR obtains and updates the time and date.





If you have selected **Update from NET**, you must select the time zone in the next step so that the time is displayed correctly. Then specify whether summer time or winter time is current at the time of setting.

- > In the next step, you can specify whether the TECHNIRADIO 4 IR should also remain connected to the Internet in standby mode. However, this increases the power consumption in standby mode.
- > The network wizard then starts and you can set up an Internet connection. Select the Wi-Fi network you are familiar with by turning and then pressing the **NAVIGATE/SELECT control dial**. Then select **[Skip WPS]** and enter the corresponding password for your Wi-Fi connection using the keypad that appears. Then select **OK** and press the **NAVIGATE/SELECT dial**. If the password was correct, a connection to this network will now be established. You can recognise whether a connection exists by the signal bars  in the status bar of the display. To cancel the entry, select and press the **NAVIGATE/SELECT rotary control**. If you have made a typing error, you can delete the last letter entered by pressing **CANCEL**. **BKSP**



While the virtual keyboard is shown on the display, you can navigate by turning the **NAVIGATE/SELECT control dial**.

- > After completing the network configuration, confirm the message that the initial setup is complete by pressing the **NAVIGATE/SELECT control dial**.

## 9 The DAB+ (digital radio) function

### 9.1 What is DAB+ and DAB+ Cable

DAB+ is a new digital format that allows you to listen to crystal-clear sound without noise. Unlike conventional analogue radio stations, DAB+ broadcasts several stations on the same frequency. This is called an ensemble or multiplex. An ensemble is made up of the radio station and several service components or data services, which are broadcast individually by the radio stations. Information e.g. at [www.dabplus.de](http://www.dabplus.de) or [www.dabplus.ch](http://www.dabplus.ch).

## 9.2 DAB+ (digital radio) reception

- > Press the **MODE** button until **[DAB Radio]** appears on the display.



When DAB+ is started for the first time, a complete station search is performed. Once the scan is complete, a station can be selected from the station list and played by pressing the **NAVIGATE/SELECT rotary control**.

### 9.2.1 Carry out a complete search



The automatic scan **Full scan** scans all DAB+ Band III channels and thus finds all stations broadcast in the reception area.



Once the scan is complete, a station can be selected from the station list and played back by pressing the **NAVIGATE/SELECT rotary control**.

- > To perform a complete search, open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial to select > [Complete search]**.

> Press the **NAVIGATE/SELECT rotary control**.

> The display shows **[Search...]**.



During the search, a progress bar and the number of channels found are displayed.



If no station is found, check the antenna and change the installation location if necessary (point 6.3.1).

## **9.2.2 Set manually**

This menu item is used to check the reception channels and can be used to align the aerial. Furthermore, transmitters can be added manually.

> To perform a manual search, open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial to select > [Set manually]**.

> Press the **NAVIGATE/SELECT rotary control**.

> Use the **NAVIGATE/SELECT rotary control** to select a channel (5A to 13F). Press the **NAVIGATE/SELECT rotary control >** the display will now show its

Signal strength is displayed. If a DAB+ station is received on a channel, the ensemble name of the station is displayed. The aerial can now be aligned for maximum signal strength.



Transmitters whose signal strength is below the required minimum signal strength do not transmit a sufficient signal. If necessary, align the telescopic antenna as described in section 6.3.1.



If there are stations on the set frequency or channel that have not yet been saved in the station list, these will now also be saved.

## 923

### Select transmitter

- > Turn the **NAVIGATE/SELECT rotary control** to call up the station list and switch between the available stations. Press the **NAVIGATE/SELECT rotary control** to play the station.

Alternative:

- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial to select > [Channel list]**.

- > Press the **NAVIGATE/SELECT rotary control**.

## 924 Store DAB+ stations in a memory location



The programme memory can store up to 40 stations in the DAB+ range.

- > First select the desired channel (see point 9.2.3).
- > To save this station to a memory location, press and **hold** the **PRESET** button (**9**) during playback until **[Save station]** appears in the display. Then use the **NAVIGATE/SELECT rotary control to select** a favourite memory (1...40). Press the **NAVIGATE/SELECT rotary control** to save.
- > Repeat this procedure to save additional transmitters.



You can also save stations directly to one of the **direct dialling buttons 1...4** by pressing and holding the corresponding button.

## 9.2.5 Recalling DAB+ stations from a memory location

- > To recall a station that you have previously stored in the FAV memory, **briefly press** the **PRESET** button and select a station memory (1...40) using the **NAVIGATE/ SELECT rotary control**. Press the **NAVIGATE/ SELECT rotary control** to play the station.



If no station is stored in the selected programme position, **[(empty)]** appears in the display.



Alternatively, the corresponding **direct selection button 1...4** can also be pressed.

## 9.2.6 Overwriting/deleting a programme position memory

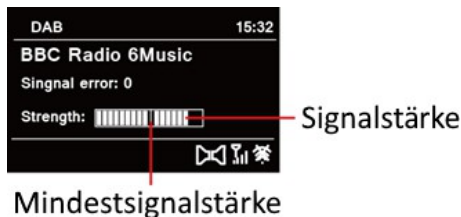
- > Simply save a new channel to a favourite memory location as described.



All memory locations are deleted when the factory settings are called up.

## 9.2.7 Signal strength

- > Press the **INFO** button several times until the signal strength bar is displayed.



- > The signal strength is shown on the display using a bar chart. The marker shows the minimum signal strength.

**i** Transmitters whose signal strength is below the required minimum signal strength do not transmit a sufficient signal. If necessary, align the telescopic antenna as described in section 6.3.1.

## 9.2.8 Volume control (DRC)

The **volume adjustment** menu item is used to set the compression rate, which compensates for dynamic fluctuations and the associated volume variations.



- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial to select > [Volume adjustment]**.
- > Press the **NAVIGATE/SELECT rotary control**.
- > Use the **NAVIGATE/SELECT rotary control** to select one of the options:
 

<b>DRC high</b>	-High compression
<b>DRC low</b>	-Low compression
<b>DRC off</b>	-compression switched off.
- > Confirm the setting by pressing the **NAVIGATE/SELECT rotary control**.

## 9.2.9 Delete inactive transmitters

This menu item is used to remove old and no longer receivable channels from the channel list.

- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT knob** to select > **[Delete inactive channels]**.
  - > Press the **NAVIGATE/SELECT rotary control**.
- You will be asked whether the inactive transmitters should be deleted.
- > Use the **NAVIGATE/SELECT dial** to select the **[Yes]** entry and

confirm by pressing the **NAVIGATE/SELECT rotary control**.

## **9.2.10 Channel order**

The display of channels in the channel list can be sorted either alphanumerically or by provider.


- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT knob to select > [Channel order]**.
- > Press the **NAVIGATE/SELECT rotary control**.
- > Use the **NAVIGATE/SELECT knob to select [Alphanumeric] or [Provider]** and press the **NAVIGATE/SELECT knob** to save.


## 10 FM (VHF) operation


### 10.1 Switch on FM radio mode

> Press the **MODE** button until **[FM Radio]** appears on the display. 

When switching on for the first time, the frequency 87.50 MHz is set.

 If you have already set or saved a station, the radio will play the last station set.

 The station name appears for RDS stations.

 To improve reception, align the antenna (point 6.3.1).

### 10.2 FM (VHF) reception with RDS information

RDS is a procedure for transmitting additional information about FM stations. Broadcasters with RDS transmit their station name or programme type, for example. This is shown on the display. The device can display the RDS information **RT** (radio text), **PS** (station name), **PTY** (programme type).

### 10.3 Automatic station search

- > Press and hold the **Previous track (7)** or **Next track (8)** button to automatically search for the next station with sufficient signal.



If an FM station with a sufficiently strong signal is found, the search stops and the station is played. If an RDS station is received, the station name and, if applicable, the radio text will appear.



To tune to weaker stations, please use the manual station search.

### 10.4 Manual station search

- > Turn the **NAVIGATE/SELECT control dial** to set the desired station or frequency.



The display shows the frequency in steps of 0.05 MHz.

## 10.5 Search setting

The sensitivity of the search run can be set in this menu item.

- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial to select > [Search settings]**.
- > Press the **NAVIGATE/SELECT rotary control**.
- > Select whether the search should only stop for strong channels **[YES]** or for all channels (including weak channels) **[NO]**.



If **NO** is selected, the automatic search stops at every available station. This can result in weak stations being played back with noise.

- > Press the **NAVIGATE/SELECT rotary control** to save.

## 10.6 Audio setting

- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial to select > [Audio settings]**.
- > Press the **NAVIGATE/SELECT rotary control**.

- > Use the **NAVIGATE/SELECT knob** to select **[YES]** (mono reception only) or **[NO]** (stereo reception) to play back the reception in stereo or only in mono sound when FM reception is weak.
- > Confirm the setting by pressing the **NAVIGATE/SELECT rotary control**.



Stereo sound playback only possible via headphones.

#### 10.7 Store FM stations in a memory location



The programme memory can store up to 40 stations in the FM/UKW range.

- > First set the desired transmitter frequency (point 10.3, 10.4)
- > To save this station to a memory location, press and **hold** the **PRESET** button (**9**) during playback until **[Save station]** appears in the display. Then use the **NAVIGATE/SELECT rotary control to select** a favourite memory (1...40). Press the **NAVIGATE/SELECT rotary control** to save.
- > Repeat this procedure to save additional transmitters.



You can also save stations directly to one of the **direct dialling buttons 1...4** by pressing and holding the corresponding button.

## 10.8 Recalling FM stations from a memory location

- > To recall a station that you have previously stored in the FAV memory, **briefly press** the **PRESET** button and select a station memory (1...40) using the **NAVIGATE/ SELECT rotary control**. Press the **NAVIGATE/ SELECT rotary control** to play the station.



If no station is stored in the selected programme position, **[(empty)]** appears in the display.



Alternatively, the corresponding **direct selection button 1...4** can also be pressed.

## 10.9 Overwriting/deleting a programme position memory

- > Simply save a new channel to the respective memory location as described.



All memory locations are deleted when the factory settings are called up.

## 11 Internet radio


The TECHNIRADIO 4 IR is equipped with an Internet radio receiver. To be able to receive Internet radio stations/transmitters, you need an Internet connection via a WLAN router to a wireless network.

- > Press the **MODE** button until **[Internet Radio]** appears on the display. 

Start Internet radio operation for the first time without a WLAN connection was configured during the initial installation, the search wizard appears, which shows you all WLAN stations within range. **Select** the Wi-Fi network you know by turning and then pressing the **NAVIGATE/SELECT control dial**. Then select **[Skip WPS]** and enter the corresponding

Enter the password for your Wi-Fi connection using the keypad that appears. Then select **OK** and press the **NAVIGATE/SELECT rotary control**. If the password was correct, a connection to this network will now be established. For a manual or WPS connection, please refer to point "13.1.1 Connection via WLAN" on page 57.



You can recognise whether a connection exists by the signal bar  in the status bar of the display. To cancel the entry, select **CANCEL** and press the **NAVIGATE/SELECT rotary control**. Have you made a mistake? you can delete the last letter entered with **. BKSP**



While the virtual keyboard is shown on the display, you can navigate by turning the **NAVIGATE/SELECT control dial**.

## 11.1 Channel list

> Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial to select > [Channel list]**.

> Press the **NAVIGATE/SELECT rotary control**.



Under **Station list**, all Internet radio stations are displayed in different categories.

> Use the **NAVIGATE/SELECT knob to select** a station based on a category/country/genre and press the **NAVIGATE/SELECT knob** to play the station.

## 11.2 Course

- > Select **MENU > Channel list > History** to display a list of the most recently played channels.
- > Select a station with the **NAVIGATE/SELECT rotary control** and play it back by pressing the **NAVIGATE/SELECT rotary control**.

## 11.3 Save favourites



The programme memory can store up to 40 stations in the Internet radio area.

- > First select a channel from the channel list and play it.
- > To save this station to a memory location, press and **hold** the **PRESET** button during playback until **[Save station]** appears in the display. Then use the **NAVIGATE/SELECT rotary control** to select a favourite memory (1...40). Press the **NAVIGATE/SELECT rotary control** to save.
- > Repeat this procedure to save additional transmitters.



You can also save stations directly to one of the **direct dialling buttons 1...4** by pressing and holding the corresponding button.

## 11.4 Retrieve favourites

- > To recall a station that you have previously stored in the FAV memory, **briefly press** the **PRESET** button and select a station memory (1...40) using the **NAVIGATE/ SELECT rotary control**. Press the **NAVIGATE/ SELECT rotary control** to play the station.



If no station is stored in the selected programme position, **[(empty)]** appears in the display.



Alternatively, the corresponding **direct selection button 1...4** can also be pressed.

## 11.5 Overwriting/deleting a programme position memory

- > Simply save a new channel to the respective memory location as described.



All memory locations are deleted when the factory settings are called up.

## 12 Further functions

### 12.1 Sleep timer

The sleep timer automatically switches the TECHNIRADIO 4 IR to **standby** after the set time.

- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial to select** > **[System settings]** > **[Sleep]**.
- > Press the **NAVIGATE/SELECT rotary control**.
- > Use the **NAVIGATE/SELECT rotary control** to select a time period after which the TECHNIRADIO 4 IR should switch off. You can choose between **Off**, **10**, **20**, **30**, **45** and **60** minutes.
- > Press the **NAVIGATE/SELECT rotary control** to accept the setting.



When the sleep timer is active, a moon symbol appears on the display with the remaining time available.

## 122 Alarm clock

The alarm clock switches the TECHNIRADIO 4 IR on at the set alarm time. Two alarm times can be programmed. The programming of alarm clock 1 is described as an example.

### 1221 Set up alarm clock

- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial** to select > **[System settings]** > **[Alarm clock]**.
- > Press the **NAVIGATE/SELECT rotary control**.
- > Use the **NAVIGATE/SELECT rotary control** to select an alarm clock that you would like to set up and press the **NAVIGATE/SELECT rotary control**.
- > The individual alarm clock parameters can then be set. Parameters are changed by turning the **NAVIGATE/SELECT dial**. Press the **NAVIGATE/SELECT rotary control** after each entry to move to the next entry.

## Repetition

- > Here you can choose between **Off**, **Daily** (every day of the week), **Once**, **Working days** (Mon. - Fri.) or **Weekends** (Sat. and Sun.). Press the **NAVIGATE/SELECT rotary control** to accept the setting.

## Time and date

- > Here you can enter the alarm time and, if necessary, the date. First select the hours using the **NAVIGATE/SELECT dial** and press the **NAVIGATE/SELECT dial** to accept. Then enter the minutes. Use the **NAVIGATE/SELECT dial to accept** these as well.



If you have selected **[Once]** under **Repeat**, you must enter the date as well as the time.

## Mode

- > The source is then entered. **SUMMER**, **Internet Radio**, **DAB** or **FM** are available. Press the **NAVIGATE/SELECT rotary control** to accept the setting.



If you have selected **Internet Radio**, **DAB** or **FM**, you can then specify whether you want to be woken up with the **last station you listened to** or with one from your **favourites list**.

## Volume

- > Finally, you can set the alarm tone volume. Press the **NAVIGATE/SELECT rotary control** to confirm.

## Save

- > Press the **NAVIGATE/SELECT rotary control** to save the alarm clock.



The time must be read in for the alarm clock to work properly. For more information, see point 13.2.2.



When the alarm clock is active, an alarm clock symbol appears on the display.

## **12.2.2** Switch off alarm clock after alarm

- > Press the **VOLUME**  **rotary control** to switch off the alarm clock.



If you want to activate the snooze function, press the **NAVIGATE/SELECT rotary control** several times while the alarm is active. Each press increases the snooze time.

## 123 Equaliser

You can use the equaliser to adjust the sound to suit your preferences.

- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT knob** to select > **[System settings]** > **[Equaliser]**.
- > Press the **NAVIGATE/SELECT rotary control**.
- > Use the **NAVIGATE/SELECT rotary control** to select an equaliser preset and accept it by pressing the **NAVIGATE/SELECT rotary control**.



### 12.3.1 Customise my EQ

The **MyEQ** equaliser preset can be adjusted.

- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT knob** to select > **[System settings]** > **[Equaliser]** > **[My EQ setting]**.
- > Press the **NAVIGATE/SELECT rotary control**.
- > Use the **NAVIGATE/SELECT knob** to select either **[Treble]** to adjust the treble or **[Bass]** to adjust the bass.  
Then press the **NAVIGATE/SELECT rotary control**.
- > You can now use the **NAVIGATE/SELECT rotary control** to select a value between to set -14 and +14. To accept the setting, press the **NAVIGATE/SELECT rotary control**.

## 13 System settings

All settings described in this section apply equally to all sources.

- > Open the **main menu** by pressing the **MENU** button and use the **NAVIGATE/SELECT dial to select > [System settings]**.
- > Press the **NAVIGATE/SELECT rotary control**.

### 13.1 Internet settings

- > You can call up and configure the network settings via **Menu > [System settings] > [Internet settings]**.

#### 13.1.1 V connection via WLAN

To configure the network connection via WLAN, you have the option of using the network wizard or doing it manually.

##### 13.1.1.1 Configuration via network wizard

- > Select **[Network Wizard]** to start it.



The network wizard now searches for all WLAN networks within range and displays them.

> Then select your WLAN network.



You can now choose whether you want to use the WPS function or enter your WLAN password manually.

> If you want to use the WPS function, first start it on your router according to its operating instructions and then select **[Press WPS button]** in the network wizard.



Please note the display messages. The connection process is usually completed after a few seconds and the WLAN connection can now be used.

> If you want to enter your WLAN password manually or your router does not support the WPS function, select **[Skip WPS]**.

> Then enter your WLAN password using the virtual keyboard that appears and confirm by selecting **OK**.



The password entered will now be checked. This process is usually completed after a few seconds and the WLAN connection can then be used.

### 13.1.12 Configuration via WPS function

This establishes a direct connection to the router. It is not necessary to select and/or enter the Wi-Fi network (SSID) and password.

- > Start the WPS function on your router according to its operating instructions.
- > Then select **[Press WPS button]** to start the connection process.



Please note the display messages. The connection process is usually completed after a few seconds and the WLAN connection can now be used. Alternatively, the **[PIN]** function can also be used if this function is supported by the router.

### 13.1.13 Manual configuration

- > Select **[Manual config]** and then **[Wireless]** to start the manual configuration.
- > Now select whether you want your router to retrieve the IP address, gateway etc. automatically (DHCP active) or enter them manually (DHCP inactive).



Please note that the automatic retrieval of the IP address, gateway and subnet mask only works if the DHCP function is activated in your router.

- > Enter the IP address, subnet mask, gateway address, primary DNS and, if necessary, secondary DNS one after the other using the **NAVIGATE/SELECT dial**. Confirm each set value by pressing the **NAVIGATE/SELECT rotary control**.
- > Now enter the name (SSID) of your WLAN network using the virtual keyboard and confirm your selection by pressing the **NAVIGATE/ SELECT rotary control**.
- > Select whether your WLAN network should use **no encryption, WEP** or **WPA/WPA2** is encrypted and confirm the following point.
- > Finally, enter your WLAN password using the virtual keyboard and confirm by selecting **OK** to start the connection process.



As a rule, the WLAN connection can be used after a few seconds.

### 13.12 Show settings

- > **Select [Show settings]** to display the current network settings.

### 13.13 Delete network profile

Use the menu items **[Delete inactive networks]** or **[Delete all network connections]** to delete an existing connection to a WLAN network or all configured networks and to delete the settings made. If you want to reconnect the device to this network, you must make all settings again.

### 13.14 WLAN connection in standby mode

- > Under **[WLAN connection in standby]**, select whether the WLAN connection should also be maintained in standby mode **[YES]** or not **[NO]**.

## 132 Time and date settings

### 1321 Set time/date manually

Depending on the time update setting (point 13.2.2), you must set the time and date manually.

- > Open the **menu > [System settings] > [Time and date]**.
- > Press the **NAVIGATE/SELECT rotary control**.
- > Use the **NAVIGATE/SELECT control dial** to select **> [Time/date setting]** and press the **NAVIGATE/SELECT control dial**.
- > The first digits (day) of the date flash and can be changed using the **NAVIGATE/ SELECT rotary control**.
- > Press the **NAVIGATE/SELECT rotary control** to accept the setting.
- > The next digits (month) of the date then flash and can also be changed as described above.
- > After each additional setting, press the **NAVIGATE/SELECT rotary control** to jump to the next setting.

- > Proceed as described above for the time.
- > After all settings have been made and the **NAVIGATE/SELECT rotary control** has been pressed for the last time, **[Time Saved]** appears on the display.

### **13.2.2 Time update**

Here you can specify whether synchronisation should take place automatically via DAB+, Internet or FM (FM) or whether you want to enter it manually (point 13.2.1).

- > Use the **NAVIGATE/SELECT knob** to select **> [Update setting]** and press the **NAVIGATE/SELECT knob**.
- > Use the **NAVIGATE/SELECT rotary control** to select one of the following options:

**[Update from Net]** (update via Internet) **[Update from DAB]** (update only via DAB+) **[Update from FM]** (update only via FM)  
**[No update]** (Time/date must be entered manually, see point 13.2.1).



- > Press the **NAVIGATE/SELECT rotary control** to save the setting press.



If you have selected **[Update Net]**, you must also configure the time zone and the summer/winter time setting. This is done under **[System settings]** > **[Time and date]** > **[Set time zone]** and **[System settings]** > **[Time and date]** > **[Daylight saving time?]**

### 13.2.3 Setting the time format

You can activate the 12 or 24 hour format under **Time format**.

- > Open the **menu** > **[System settings]** > **[Time and date]** > **[Time format]**.
- > Use the **NAVIGATE/SELECT rotary control** to select one of the following options:
  - [24]**
  - [12]**
- > Press the **NAVIGATE/SELECT rotary control** to save.

### 13.3 Display settings

You can set the display brightness for both operation and standby.

> Open the **menu > [System settings] > [Lighting]** and press the **NAVIGATE/SELECT rotary control**.

> Use the **NAVIGATE/SELECT rotary control** to select an option:

**[Operation]** adjusts the brightness in the normal, switched-on state.

You can choose between the brightness levels **[High]**, **[Medium]** and **[Low]**. Use the **NAVIGATE/SELECT rotary control to select** a brightness level and press the **NAVIGATE/SELECT rotary control** to save.

**[Standby]** controls the brightness in standby mode. You can choose between the brightness levels **[High]**, **[Medium]** and **[Low]**. Use the **NAVIGATE/SELECT rotary control to select** a brightness level and press the **NAVIGATE/SELECT rotary control** to save.

**[Auto-Dim]** dims the display automatically (if the **[On]** option is selected) to the **Low** brightness value after 10 seconds without operating the radio.

If the **[Off]** option is selected, the display lights up permanently with the brightness selected under the **[Operation]** function. Press the **NAVIGATE/SELECT rotary control** to save a setting.

#### 134 Language

- > Open the **menu > [System settings] > [Language]** and press the **NAVIGATE/SELECT rotary control**.
- > Use the **NAVIGATE/SELECT rotary control** to select one of the available languages and confirm your selection by pressing the **NAVIGATE/SELECT rotary control**.

#### 135 Factory setting

If you change the location of the device, e.g. if you move house, you may no longer be able to receive the saved channels. In this case, you can delete all saved channels by resetting to **factory settings and** then start a new channel search.

- > Open the **menu > [System settings] > [Factory settings]** and press the **NAVIGATE/SELECT rotary control**.
- > Use the **NAVIGATE/SELECT rotary control** to select the

Factory setting, select **[Yes]** and press the **NAVIGATE/SELECT rotary control**.



All previously saved channels and settings are deleted. The device is now in the factory settings.

- > The display shows **[Restart...]** and the device starts with the initial setup wizard. Follow the instructions under point "8 Initial setup" on page 31.

### 13.6 System info

You can query the currently installed Sokware version under **Info**.

- > Open the **menu > [System settings] > [Info]** and press the **NAVIGATE/SELECT rotary control**.
- > The current SW version is displayed.

### 13.7 SoLwareupdate

The Sokwareupdate item is used to update the device software.

- > Open the **menu > [System settings] > [SoLwareupdate]** and press the **NAVIGATE/SELECT rotary control**.

## Auto-update

- > Switch the automatic search for new Sokware versions on (**YES**) or off (**NO**).

## Check now

- > Starts the search for a new Sokware version immediately.



If a new Sokware version is found, you can update it directly. Follow the instructions on the display. Do not disconnect the power supply at any time during the update process. Otherwise the device may be damaged.

### 13.8 Initial setup

The initial setup wizard can be called up again here. For more information, see section "8 Initial setup" on page 31.

- > Open the **menu > [System settings] > [Setup wizard]** and press the **NAVIGATE/SELECT rotary control**.

### 13.9 Data protection

Under this point you will find data protection information.

- > Open the **menu > [System settings] > [Data protection]** and press the **NAVIGATE/SELECT rotary control**.

## 14 Cleaning



To avoid the risk of electric shock, do not clean the appliance with a wet cloth or under running water. Disconnect the mains plug and switch off the appliance before cleaning!



Do not use scouring pads, scouring powder or solvents such as alcohol or petrol.



Do not use any of the following substances: Salt water, insecticide ammonia, chlorinated or acidic solvents (ammonia).



Clean the housing with a soft cloth moistened with water. Do not use spirits, thinners, etc.; they could damage the surface of the device.



Only clean the display with a soft cotton cloth. If necessary, use a cotton cloth with small amounts of non-alkaline, diluted water- or alcohol-based soapy water.



Rub the cotton cloth gently over the surface.

## 15 Eliminate errors

If the device does not work as intended, check it using the following table.

<b>Symptom</b>	<b>Possible cause/remedy</b>
Device cannot be switched on.	The device is not supplied with power. Connect the power supply unit correctly to the socket and to the device.
No sound can be heard.	Increase the volume.
The display does not switch on.	Disconnect the appliance from the mains and reapply power.
Reception via DAB+/FM is poor.	Pull out the antenna completely. Change the position of the antenna or the TECHNIRADIO 4 IR.
Device cannot be operated.	Disconnect the appliance from the mains and reapply power.



<b>Symptom</b>	<b>Possible cause/remedy</b>
Device automatically switches to standby	The auto standby function automatically switches the device to standby after approx. 15 minutes if, for example, no music is being played.

If you are still unable to rectify the fault after the checks described, please contact the technical hotline.

## 16 Technical data / manufacturer's information

Technical changes and errors excepted.

Reception paths	DAB/DAB+, FM, Internet
Power supply	DC 5 V, 2 A via external power supply unit supplied
Frequencies	FM: 87.5-108 MHz DAB/DAB+: 174-240 MHz WLAN: 2400 MHz - 2483 MHz Transmission power: max. +17 dBm EIRP 5150 MHz - 5875 MHz Transmission power: max. +17 dBm EIRP
WLAN	IEEE 802.11 a/b/g/n Dual band 2.4/5 GHz
Display	2.4" Colour
Loudspeaker	1 x 3 W RMS

Power consumption	Typical operation: 7.2 W Standby: 0.95 W with active network connection: 1.35 W
Ambient conditions Operation	5 - 35° C 5 - 90% hatch humidity
Weight (g)	675
Dimensions (WxHxD) mm	210 x 143 x 81

### **Technical data of the supplied power supply unit**

Manufacturer	TechniSat Digital GmbH, Julius-Saxler-Straße 3, D-54550 Daun
Model identifier	OBL-0502000E
Input voltage	AC 100 - 240 V
Input alternating current frequency	50/60 Hz
Output voltage	DC 5.0 V
Output current	2,0 A
Output power	10,0 W
Consistent efficiency in operation	82,1 %
Power consumption at no load	0,07 W