

DAB/DAB+ – FM - Bluetooth - Internet Radio
Spotify Connect- Music Player

User Guide

Manufacturer's manual



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3 Safety instructions

3.1 Signs and symbols used

In this instruction manual:



Indicates a safety instruction which can lead to serious injuries or death if not observed. Note the following signal words:

DANGER - Serious / fatal injury

WARNING - Serious injury, possibly fatal

CAUTION - Injury



This identifies information that must always be observed to prevent defects, data loss/misuse and undesired operation. It also describes additional functions of your unit.



Beware of electrical voltage. Follow all safety instructions to avoid electric shock. Do not open the device under any circumstances.

On the unit:



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



Protection class II - Electrical devices of protection class II are electrical devices with continuous double and/or reinforced insulation and no connection options for a protective conductor. The casing of an electrical device of protection class II, which is enclosed in an insulating material, can form part or all of the additional or reinforced insulation.



Your device bears the CE symbol and complies with all requisite EU standards.



Electronic devices do not belong in the household waste and must be disposed of properly in accordance with Directive 2002/96/EC of the European Parliament and of the Council dated January 27, 2003 concerning waste electrical and electronic equipment. Please return this unit to the designated public collection point for disposal at the end of its service life.

3.2 Intended use

The device is designed to receive radio broadcasts via DAB+, FM and the Internet. Music media can be streamed via a WLAN network connection or Bluetooth. The device has been designed for private use and not for commercial purposes.

3.3 Target group for this instruction manual

The instruction manual is intended for anyone concerned with installing, operating, cleaning or disposing of the device.

3.4 Using the DIGITRADIO 10 IR safely

Please take note of the following information to minimise safety risks, to prevent damage to the device and to make a contribution to environmental protection. Please read all of the safety information carefully and keep it for future reference. Always follow all warnings and instructions in this instruction manual and on the rear of the device.



WARNING!

Never open the device!
Touching live parts can be fatal!



Observe all of the following instructions for the intended use of the device and to prevent damage to the device and injury to persons.

- Do not repair the device yourself. Repairs should only be carried out by trained experts. Contact our customer service department.
- The device should only be operated under the intended environmental conditions.
- Do not expose the device to dripping or splashing water. If water has penetrated the device, switch it off and inform the Service department
- Do not expose the device to heat sources which could heat it up more than normal use will.
- If you detect a device defect, odour or smoke, a major malfunction, or damage to the housing, inform the Service department immediately.
- The device must only be operated at the mains voltage specified on the power supply unit. Never try to operate the device at any another voltage.

- If the device shows signs of damage, it must not be put into operation.
- Do not put the device into operation in the vicinity of bath tubs, showers, swimming pools or running/splashing water. There is a risk of electric shock and/or device defects.
- Foreign bodies, e.g. nails, coins, etc. must not be allowed to fall inside the device. Do not touch the connection contacts with metal objects or your fingers. This could lead to short-circuits.
- This device is not intended to be used by people (including children) with limited physical, sensory or mental capacities or lack of experience and/or knowledge, unless they are supervised by a person responsible for their safety or they have been instructed by them as to how to use the device. Never allow children to use the device unsupervised.
- Modifications to the device are prohibited.

4 Legal notices



TechniSat herewith declares that the radio system model DIGITRADIO 10 IR corresponds to Directive 2014/53/EU. The complete text of the EU Declaration of Conformity is available at the following web address:

<http://konf.tsat.de/?ID=22920>



TechniSat accepts no liability for product damage as a result of external influences, wear or improper handling, unauthorised repairs, modifications or accidents.



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TechniSat Digital GmbH

TechniPark

Julius-Saxler-Strasse 3

D-54550 Daun/Eifel, Germany

www.technisat.de

The names of the companies, institutions or brands referred to are trademarks or registered trademarks of the respective owners.

The Spotify Software is subject to third party licences found here: <https://www.spotify.com/connect/third-party-licenses>.



The device may only be operated in enclosed rooms in the 5 GHz WLAN range in the countries listed below.

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

4.1 Service instructions



This product is quality-tested and provided with the legally-specified warranty period of 24 months from the date of purchase. Please keep your receipt as proof of purchase. In the event of warranty claims, please contact the product dealer.



Note!

Should you experience a problem with this unit, or for queries and information, our Technical Hotline is available:

Mon. - Fri. 8:00 am - 6:00 pm on:
+49 (0) 3925 9220 1800.



Repairs can also be ordered directly online at www.technisat.de/reparatur.

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If the device needs to be returned, please use the following address only:

TechniSat Digital GmbH
Service-Center
Nordstr. 4a
39418 Stassfurt, Germany

5 Setting up the device

- > Place the device on a firm, secure and horizontal base. Make sure the area is well ventilated.



Note:

- Do not place the radio on soft surfaces such as carpets and blankets, or near to curtains and wall hangings. These could obstruct the ventilation openings. The necessary flow of air could be interrupted as a result. This could potentially lead to fire in the device.
- Do not place the device near to sources of heat, such as radiators. Avoid direct sunlight and very dusty environments.

- Do not select a location for the device with high air humidity, e.g. a kitchen or sauna, since condensation could damage the device. The device is intended for use in a dry environment and in a moderate climate and must not be exposed to dripping or splashing water.
- Please note that the device feet could leave coloured marks on some types of furniture surfaces in certain situations. Place a protective layer between your furniture and the device.
- Keep the DIGITRADIO 10 IR away from devices that emit intense magnetic fields.
- Do not place any heavy objects on the device.
- Route the mains cable in such a way that nobody can trip over it. Ensure that the mains cable or the power supply unit are always easily accessible, so that the device can be quickly disconnected from the power supply!
- > Insert the plug fully into the socket to ensure connection to the mains.
- > Use a suitable, easy-to-access mains connection and avoid using multiple socket strips!

- > In the case of malfunctions or detecting smoke or odour from the housing, remove the plug from the power outlet immediately!
- > Remove the plug if the device is not going to be used for a prolonged period, e.g. before going away on a long trip.

6 Description of the DIGITRADIO 10 IR

6.1 Scope of delivery

Before start-up, please check whether everything has been delivered:

- 1 x DIGITRADIO 10 IR
- 1 x remote control + batteries
- 1 x dipole antenna
- 1 x USB cable
- 1 x power supply unit
- 1 x instruction manual
- 1 x audio connection cable

6.2 Special features of the DIGITRADIO 10 IR

The DIGITRADIO 10 IR is comprised of a DAB+/FM/Internet radio receiver having the following functions:

- You can store up to 30 DAB+ and 30 FM stations.
- The radio receives on the FM 87.5–108 MHz (analogue) frequencies and DAB+ 174.9 – 239.2 MHz (digital antenna), 252 - 261 MHz (digital cable).
- The device has a time and date display.
- Music playback via Bluetooth connection.
- Colour display
- Spotify Connect playback

6.3 Preparing the DIGITRADIO 10 IR for operation

6.3.1 Connect and align the dipole antenna

The number and quality of the stations to be received depend on the reception conditions at the installation location. Excellent reception can be achieved with the dipole antenna.

- > Insert the dipole antenna into the **RF IN antenna port (3)**. If supported by your cable network operator, you can also receive DAB+ via the cable socket (adapter/cable not supplied).



The exact alignment of the telescopic antenna is often important, in particular on the outskirts of the DAB+ reception area. On the Internet you can quickly find the location of the nearest transmission tower by visiting www.dabplus.de.



Start the first scan at a window pointing in the direction of the transmission mast. If the weather conditions are poor, DAB+ reception may be limited.



Do not touch the telescopic antenna during station playback. This could reduce the reception and lead to sound dropouts.

6.3.2 Audio connection to stereo equipment, active speaker

- > Use the **analogue audio output (4)** to connect the device to e.g. the AUDIO IN on a stereo system or an AV amplifier. Use the supplied audio connection cable to do so (a special cable may be required, depending on the AV amplifier input).
- > If your AV amplifier has an optical digital input, you can connect the DIGITRADIO 10 IR to the amplifier via the **S/PDIF optical digital output (4)**.

6.3.3 Connecting the power supply unit



Ensure that the operating voltage of the power supply unit matches the mains voltage before you insert it into the wall socket.



WARNING!

Do not touch the mains plug with wet hands; electric shock hazard!



WARNING!

Route the mains cable in such a way that nobody can trip over it.

- > Connect the supplied USB cable to the mains adapter and attach this to the port marked **DC IN (5)** on the reverse of the DIGITRADIO 10 IR. Then connect the mains adapter to the mains.

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6.3.4 Insert the batteries into the remote control

- > Open the battery compartment on the back of the remote control by pushing it in the direction of the arrow.
- > Insert the batteries (2 x AAA 1.5V) in accordance with the polarity indicated in the battery compartment.
- > Close the battery compartment lid carefully again to ensure that the lid retaining tabs engage in the housing.



To operate the remote control, you will need an alkaline battery (type Micro, 1.5 V, LR03/AAA). Ensure that the polarity is correct when inserting.

- Change a battery that is losing power promptly.
- Leaking batteries can cause damage to the remote control.
- If the device is not to be used over a prolonged period, remove the battery from the remote control.
- Important information concerning disposal: batteries can contain toxic substances which harm the environment. Therefore, it is imperative to dispose of the batteries according to the legal provisions in force. Never dispose of batteries in normal household waste.

6.4 General device functions

6.4.1 Switching on the device

- > First prepare the DIGITRADIO 10 IR for operation as described in Sections 6.3.1 and 6.3.4.
- > Press the **On/Standby button (18)** on the remote control to turn on the DIGITRADIO 10 IR.



After switching on the device for the first time, you must first configure the first installation wizard. There are details of this in Section 8.

6.4.2 Switching off the device

- > By briefly pressing the **On / Standby** button you can switch the device to standby mode. **[Standby]** appears briefly on the display. The date and time are shown on the display. The display brightness in standby mode can be adjusted by following the instructions in Section 16.3.

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6.4.3 Source selection

> Press the **MODE** button (**25**) to switch between **DAB+** (Digital Radio), **FM** and **Bluetooth** modes. Press the button repeatedly to do so.



The modes are displayed using a symbol.



DAB+



FM



Internet radio



Bluetooth



Spotify Connect

6.4.4 Adjusting the volume

> Set the volume using the **VOL +/-** buttons (**15, 27**) on the remote control.

The set volume is shown on the display by way of a bar chart.

> Press the **Mute** button (**6**) to immediately mute the sound. Press the button again to return to the previously set volume.



When the volume is completely turned down (Mute), the device will switch to standby mode after approx. 15 minutes.

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6.4.5 Display

Depending on the selected function or option, the **display** will show the following information:



6.4.5.1 Retrieving displays

- > Press the **MENU** button and use the ▲/▼ buttons to select the **[Display settings]** > **[Display] submenu**. Then press the **OK** button. Use the ▲/▼ and **OK** buttons to select a display option. You have the choice of viewing the following information:

In **Internet radio** mode (the selected function is identified with an “*”):

[Track, Artist], [Description], [Genre], [Reliability], [Bit rate], [Sound format], [Playback buffer] and **[Date]**.

In **DAB+** mode (the selected function is identified with an “*”):

[Running text] (continuous text with additional information provided by broadcasters etc.), **[Signal quality], [Channel type], [Ensemble], [Frequency], [Bit rate and Codec]** and **[Date]**.

In **FM** mode (the selected function is identified with an “*”):

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

In **Bluetooth** mode (the selected function is identified with an “*”):

[Status] (Device name), **[Track/Artist/Album]** and **[Date]**.

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Alternatively, the **INFO** button on the remote control can also be used to scroll through the displays.

6.4.5.2 Slideshow

Some DAB+ broadcasters broadcast additional information such as the album cover of the current track, adverts or weather information. The window size can be set using the **OK** button or in the menu under **[Display settings] > [Picture size]**.

7 Menu operation

The menu takes you to all functions and settings for the DIGITRADIO 10 IR. Menu navigation is carried out with the **MENU**, **BACK**, **▲/▼** and **OK** buttons. The menu is divided into submenus and contains different menu items or activatable functions, depending on the mode. To open the menu, simply press the **MENU** button briefly. To switch to submenus, first press the **▲/▼** buttons to display a submenu, then press the **OK** button to access the submenu. An asterisk (*) highlights the current selection.



To close the menu: Press the **MENU** or **BACK** button several times (depending on which submenu you are in) until the current radio channel is displayed again.



Settings are not saved until the **OK** button is pressed. If the **BACK** button is pressed instead of this, settings are not accepted or saved (the **MENU** button in this case acts as a “Back” button and you exit the menu).



The functions and buttons to be pressed are shown in **bold** in this instruction manual. Displays in **[square brackets]**.



Some text (e.g. menu items, station information) may be too long to show on the display. These will be then shown as running text shortly thereafter.

8 Initial set-up

After switching on the DIGITRADIO 10 IR for the first time, the **initial set-up wizard** starts.




Settings can all be changed at any time in the future.

- > To launch the initial set-up wizard, use ▲/▼ on the remote control to select the **[YES]** field and press the **OK** button.
- > Use ▲/▼ to select the operating language and confirm with **OK**.
- > In the next step you can select the **time format**. Select the desired setting **[12]** or **[24]** and press the **OK** button to move on to the next step.
- > Here it is possible to select which source (DAB+, FM or the Internet) the DIGITRADIO 10 IR uses to obtain and update the time and date.



If you have selected **Update from the NET**, you must then select the time zone so that the time is displayed correctly. Proceed to specify whether summertime or wintertime is applicable at the time of setting.

- > In the next step you can specify whether the DIGITRADIO 10 IR should remain connected to the Internet when on standby. This can, for example, be useful for App control (Spotify Connect). Power consumption is, however, increased by using the standby mode.
- > The network wizard then starts and you can set up an Internet connection. Use the ▲/▼ and **OK** buttons to select the WiFi network you recognise and enter the relevant password using the displayed keyboard (skip WPS). Then select **OK** and press the **OK** button. If the password entered is correct a connection to the network is now established. The signal bar  in the status bar of the display indicates whether the connection has been established. To cancel the entry, select **CANCEL** and press the **OK** button. If you make a typing error you can delete the last letter entered using **BKSP**.



While the virtual keyboard is displayed, you can use ▲/▼ on the remote control to navigate. The ▲/▼ buttons move the highlight upwards and downwards, the ◀/▶ buttons move the highlight to the right and left.

- > After completing the network set-up, confirm the message that the initial set-up has been completed by pressing the **OK** button.

9 DAB+ (digital radio) function

9.1 What are DAB+ and DAB+ Cable?

DAB+ is a new digital format through which crystal clear sound with no noise can be heard. In contrast to conventional analogue radio stations, DAB+ can be used to broadcast multiple stations on one and the same frequency. This is referred to as an ensemble or multiplex.

An ensemble is comprised of the radio station, as well as several service components or data services which are broadcast individually by the radio stations. For further information, please visit e.g. www.dabplus.de or www.dabplus.ch.

9.2 DAB+ (digital radio) reception

- > Press the **MODE** button until **[DAB]** is shown on the display.



If DAB+ is being started for the first time, a complete scan will be performed. After the scan is complete, the first station is played back in alphanumeric order.

9.2.1 Performing a complete scan



The automatic scan (**Complete scan**) scans all DAB+ band III channels and thereby finds all stations being broadcast within the reception area.



After the scan is complete, the first station is played back in alphanumeric order.

- > In order to perform a complete scan, press the **SCAN** button on the remote control.

Alternatively:

- > Open the **MENU > [Scan settings] > [Complete scan]** and press the **OK** button.

- > **[Scanning...]** appears in the display.



During the scan a progress bar and the number of stations found is displayed.



If no stations are found, check the dipole antenna and change the installation location if required (Section 6.3.1).

9.2.2 Selecting stations

- > By pressing the **P+** or **P-** buttons, the station list can be called up and you can switch between the available stations.



Depending on the setting under **MENU > [Scan settings] > [Change channel]**, the **OK** button must then be pressed to play the selected station (alternatively: Change Channel > **List**) or the station will be played automatically (alternatively: Change channel > **Channel**).

9.2.3 Storing DAB+ stations in a memory slot



The programme memory can save up to 30 stations in the DAB+ range.

- > First select the desired station (see Section 9.2.2).
- > In order to store this station in a memory slot, **hold down** the **FAV** button while playing until **[Save channel]** appears on the display. Then use the **▲/▼** buttons to select a favourites memory slot (1 - 30). Press the **OK** button to save.
- > Repeat this process to save additional stations.



You can also save stations to one of the **One-Touch buttons (1 - 10)** by holding down the corresponding button a little longer (0 button = 10). To save to memory slots 11 - 30, briefly press the **Number entry** button (**17**) and then hold down the second number.

9.2.4 Retrieving DAB+ stations from a memory slot

> To retrieve a station that you have stored in the FAV memory, **briefly** press the **FAV** button and select a station slot (1 - 30) using the **▲/▼** buttons. Press the **OK** button to play the station.



If no station is saved in the selected station slot, **[(empty)]** appears on the display.



Alternatively, the corresponding **One-touch button (1 - 10)** on the remote control can be used. For stations in memory slots 11 - 30, press the **Number entry** button (**17**) and another number (e.g. number entry + 3 for memory slot 13).

9.2.5 Overwriting/deleting a station memory slot

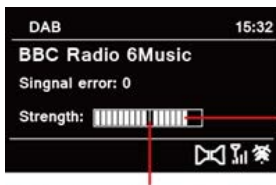
> Simply save a new station on a favourite memory slot as described.



When retrieving the factory settings all memory slots are deleted.

9.2.6 Signal intensity

> Press the **INFO** button repeatedly until the signal strength bar is displayed.



Signal Strength

Minimum Signal Strength

> The display shows the signal strength using a bar graph. The mark shows the minimum signal strength.



Stations with a signal intensity below the required minimum signal intensity are not transmitting a strong enough signal. Align the dipole antenna, if required, as described in Section 6.3.1.

9.2.7 Manual setting

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

- > Press the **MENU** button and use the ▲/▼ buttons to select the **[Scan settings] > [Set manually]** entry, then press the **OK** button.
- > Use the ▲/▼ and **OK** buttons to select a channel (5A to 13F). The signal intensity will now be shown on the display. If a DAB+ station is being received on a channel, the station ensemble name is displayed. The antenna can now be aligned to the maximum signal intensity.



Stations with a signal intensity below the required minimum signal intensity are not transmitting a strong enough signal. Align the dipole antenna, if required, as described in Section 6.3.1.



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

9.2.8 Volume adjustment (DRC)

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

- > Press the **MENU** button and use the ▲/▼ buttons to select the **[Sound settings] > [DRC]** entry.
- > Press the **OK** button.
 - DRC high** - High compression
 - DRC low** - Low compression
 - DRC off** - Compression switched off.
- > Confirm the setting with **OK**.

9.2.9 Deleting inactive stations

This menu item is for removing old stations and those no longer being received from the station list.

- > Press the **MENU** button and use the ▲/▼ buttons to select the **[Scan settings] > [Remove inactive stations]**.
- > Press the **OK** button.

This is followed by the **[Delete]** prompt asking if the inactive stations are to be deleted.

- > Use ▲/▼ to select the **[Yes]** item and confirm by pressing the **OK** button.

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10 FM mode

10.1 Switching on FM radio mode

> Switch to FM mode by pressing the **MODE** button.

> **[FM]** is shown on the display.



When switching on for the first time, the frequency 87.5 MHz is set.



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



In the case of RDS stations, the station name appears.



To improve reception, readjust the dipole antenna (Section 6.3.1).

10.2 FM reception with RDS information

RDS is a procedure for broadcasting additional information via FM stations. Broadcasters with RDS broadcast their station name or the programme type, for example. This is shown on the display. The device can show the RDS information **RT** (Radio text), **PS** (Station name), **PTY** (Programme type).

10.3 Automatic station scan

- > Press the **SCAN** button to automatically search for the next station with sufficient signal intensity.



If a FM station with sufficient signal intensity is found, the scan stops and the station is played. If an RDS station is being received, the station name appears and, possibly, radio text.



Please use the manual station scan for setting weaker stations.

10.4 Manual station scan

- > Press the ▲/▼ buttons repeatedly to set the desired stations or frequency.



The display shows the frequency in steps of 0.05 MHz.

10.5 Scan setting

In this menu item it is possible to set the sensitivity of the scan.

- > Push the **MENU** button and select the entry [**Scan settings**].

- > Select whether the scan should only stop for stations with a strong signal [**Strong Stations Only**] or for all stations (including stations with a weak signal) [**All Stations**].



With the **All Stations** setting, the scan stops automatically upon detecting each available station. This can result in weak stations being played with background noise.

- > Press the **OK** button to save.

10.6 Audio settings

- > Push the **MENU** button and select [**Sound settings**].
- > Use ▲/▼ to select the [**Stereo available**] or [**Mono only**] item to play back in stereo or only in mono sound when the FM reception is weak.
- > Confirm the setting by pressing the **OK** button.

10.7 Saving FM stations to a memory slot



The station memory can save up to 30 stations in the FM range.

- > First set the desired station frequency (Section 10.3, 10.4)
- > In order to store this station in a memory slot, **hold down** the **FAV** button while playing until **[Save channel]** appears on the display. Then use the **▲/▼** buttons to select a favourites memory slot (1 - 30). Press the **OK** button to save.
- > Repeat this process to save additional stations.



You can also save stations to one of the **One-Touch buttons (1 - 10)** by holding down the corresponding button a little longer (0 button = 10). To save to memory slots 11 - 30, briefly press the **Number entry** button (**17**) and then hold down the second number.

10.8 Retrieving FM stations from a memory slot

- > To retrieve a station that you have stored in the FAV memory, **briefly** press the **FAV** button and select a station slot (1 - 30) using the **▲/▼** buttons. Press the **OK** button to play the station.



If no station is saved in the selected station slot, **[(empty)]** appears on the display.



Alternatively, the corresponding **One-touch button (1 - 10)** on the remote control can be used. For stations in memory slots 11 - 30, press the **Number entry** button (**17**) and another number (e.g. number entry + 3 for memory slot 13).

10.9 Overwriting/deleting a station memory slot

> Simply save a new station in the respective memory slot as described.




When retrieving the factory settings all memory slots are deleted.

11 Internet radio

The DIGITRADIO 10 IR is equipped with an Internet radio receiver. In order to receive Internet radio stations/channels, you need an Internet connection using a connection to a wireless network via a WLAN router.

- > Press the **MODE** button as often as required until **[Internet Radio]** is shown on the display.



If you start the Internet radio mode for the first time without having configured a WLAN connection during the initial set-up, the search wizard appears showing you all the WLAN stations within range. Use the **OK** button to select the WLAN network you recognise and enter the relevant password using the displayed keyboard (skip WPS). Then select **OK** and press the **OK** button. If the password entered is correct a connection to the network is now established. The signal bar  in the status bar of the display indicates whether the connection has been established. To cancel the entry, select **CANCEL** and press the **OK** button. If you make a typing error you can delete the last letter entered using **BKSP**.

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11.1 Station list

> Press the **MENU** button and select the **>Station list** item.



Under **Station list**, all Internet radio stations are displayed, sub-divided into different categories. You can also access to your **Favourites** here.

> Based on a category/country/genre, select a station and press the **OK** button.

11.2 Last listened to

> Select **MENU > Station list > Timeline**, to display a list of the last stations listened to.

> Using the **up/down arrow buttons** select a station and play it by pressing **OK**.

11.3 Adding favourites



The station memory can save up to 30 stations in the Internet radio range.

- > In order to store this station in a memory slot, **hold** down the **FAV** button while playing until **[Save channel]** appears on the display. Then use the **▲/▼** buttons to select a favourites memory slot (1 - 30). Press the **OK** button to save.
- > Repeat this process to save additional stations.



You can also save stations to one of the **One-Touch buttons (1 - 10)** by holding down the corresponding button a little longer (0 button = 10). To save to memory slots 11 - 30, briefly press the **Number entry** button (**17**) and then hold down the second number.

11.4 Retrieving favourites

- > To retrieve a station that you have stored in the FAV memory, **briefly** press the **FAV** button and select a station slot (1 - 30) using the **▲/▼** buttons. Press the **OK** button to play the station.



If no station is saved in the selected station slot, **[(empty)]** appears on the display.



Alternatively, the corresponding **One-touch button (1 - 10)** on the remote control can be used. For stations in memory slots 11 - 30, press the **Number entry** button (**17**) and another number (e.g. number entry + 3 for memory slot 13).

12 Podcasts

Podcasts are retrieved from the Internet in the same way as Internet radio stations. This basic procedure is as described in Section „11 Internetradio“ auf Seite 127.

13 Spotify Connect

Use your smartphone, tablet or computer as a remote control for Spotify. You can find out more by going to www.spotify.com/connect.



The Spotify software is subject to third-party licences that you can find here: <http://www.spotify.com/connect/third-party-licenses>

14 Bluetooth

In Bluetooth mode, you can enjoy music from a connected smartphone or tablet via the DIGITRADIO 10 IR's speakers. For this purpose, the two devices must first be "paired" to each other.

14.1 Switching on Bluetooth mode

> Change to Bluetooth mode by pressing the **MODE** button.

> **[Bluetooth]** is shown on the display.



When switching on for the first time, an external device (smartphone / tablet) must first be paired.





If the radio has already been paired with another device which is within range, the connection is automatically established. Depending on the connected device, music playback may start automatically.

14.2 Pairing an external device

To pair an external device, for example a smartphone or tablet, with the DIGITRADIO 10 IR, follow these steps:

> Start Bluetooth mode as described in Section 14.1.

- > The display will show **[Bluetooth]** and **[Please pair]**.
- > Now start the search for Bluetooth devices nearby on your external device. You may need to enable the Bluetooth feature on your external device first.
-  Please refer to the operating instructions for your external device to activate the Bluetooth function and perform a search on your external device.
-  During the pairing process, both devices should be within 10 cm of each other.
- > The entry **DIGITRADIO 10 IR** should now appear in the list of Bluetooth devices found on your external device. Tap on the name of the radio to complete the pairing process. If the pairing process is successful, a confirmation tone sounds from the DIGITRADIO 10 IR's speaker.
- > Depending on the external device, its name now appears on the display of the DIGITRADIO 10 IR. You can now start playing music on your external device.



Depending on the Bluetooth protocol of your external device, you can control the music playback using the playback buttons on the remote control.

Playback / pause

- button



Next track

- button



Previous track

- 2 x button



Track from beginning

- button



Volume

- Button **volume +/-**



Alternatively, you can use the playback control for the music App on your external device.



If no sound is being played, or no device is paired, the DIGITRADIO 10 IR switches to standby mode after approx. 15 minutes.

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14.3 Cancelling pairing

To cancel an active pairing, select **MENU > [Disconnect]** and press the **OK** button. Note that the device to be unpaired must be connected to the DIGITRADIO 10 IR if you want to unpair it. Then you can pair a new device, as described in Section 14.2.




Alternatively, you can also cancel the pairing on your external device. Follow the instructions in the device manufacturer's instruction manual.

15 Other functions

15.1 Sleep timer

The sleep timer automatically switches the DIGITRADIO 10 IR to **Standby** after the set time.

- > Press the **MENU** button and use the **▲/▼** buttons to select the **[Sleep timer]** item.
- > Press the **OK** button.
- > Use **▲/▼** to select a period after which the DIGITRADIO 10 IR should switch off. You can choose between **Off**, **5**, **10**, **15**, **30**, **60** and **90** minutes.

- > Press the **OK** button to apply the setting.
- > Alternatively the **SLEEP**  button can be used. Press it repeatedly to scroll through the times.



When the sleep timer is active, a moon symbol appears in the display showing the time still available.

15.2 Alarm

The alarm switches on the DIGITRADIO 10 IR at the set time. 2 alarm times can be programmed. The description of how to programme Alarm 1 serves as an example.

15.2.1 Setting the alarm

- > Press the **Alarm 1/2** button (20) on the remote control.
- > Use **▲/▼** to select the alarm you want to set and press the **OK** button.
- > The specific alarm parameters can then be set.

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Alarm

- > Switch the alarm to **Active:[On]** or **[Off]**.
- > Here you can select from **Daily** (every day of the week), **Once, Weekdays** (Mon - Fri) or **Weekends** (Sat and Sun). Press the **OK** button to apply the setting.

Time and date

- > Here you can enter the alarm time and date (if required). First use the **▲/▼** buttons to select the hour and press the **OK** button to accept. Then enter the minutes. Accept this by pressing the **OK** button.



If **Repeat> [Once]** has been selected, you must also enter the date as well as the time.

Source

- > You then enter the source. The available options are **BUZZER, Internet Radio, DAB** or **FM**. Press the **OK** button to accept the setting.



If you have selected **Internet Radio**, **DAB** or **FM**, you can then enter whether or not you want to be woken up by the **last station listened to** or by one from your **Favourites list**.

Duration

> Then enter the duration. Accept the input by pressing the **OK** button.

Volume

> You can then set the alarm volume using the **▲/▼** buttons. Press the **OK** button to confirm.

Save

> Press the **OK** button to save the alarm.



The time must be read for the alarm to function properly. For more details, see Section 16.2.2.



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

15.2.2 Switching off the alarm after being woken

> Press the **On/Standby** button on the remote control to switch the alarm off.



If you want to activate the snooze function, press the **OK** button repeatedly when an alarm is active.

15.3 Equaliser

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

> Press the **MENU** button and use the **▲/▼** buttons to select the **[Sound Settings] > [Equaliser]** item.

> Press the **OK** button.

> Use the **▲/▼** buttons to select either **[Treble]** to adjust the treble, or **[Bass]** to adjust the bass. Then press **OK**.

> Use the **▲/▼** keys to set a value between -7 and +7. Press the **OK** button to apply the setting.



The equaliser can also be accessed using the **EQ** button (15).

16 System settings

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

- > Open the menu and use the ▲/▼ > **[System Settings]** buttons to select. Press the **OK** button to open the system settings.

16.1 Internet settings

- > Via **MENU > System Settings > Internet Settings** you can access and configure the network settings.

16.1.1 Connection via WLAN

To configure the network connection via WLAN, you can either use the network wizard or configure this manually.

16.1.1.1 Network wizard configuration

- > Select **[Wizard]** to launch this.



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

- > Then select your WLAN network.



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

- > If you would like to use the WPS function, launch it on your router first as per its instruction manual and then select **[Use WPS via button]** in the network wizard.



Please observe the display overlays. The connection process is generally completed in a few seconds and the WLAN connection can be used.

- > If you wish to enter your WLAN password manually, or if your router does not support the WPS function, select **[Skip WPS]**.
- > Then enter your WLAN password using the virtual keyboard display and confirm your selection with **OK**.



The entered password will then be verified. This process is generally completed in a few seconds and the WLAN connection can then be used.

16.1.1.2 Configuration via the WPS function

This establishes a direct connection to the router. Selecting and/or entering a WLAN network (SSID) and password is not required.

- > Start the WPS function on your router as per the instruction manual.
- > Then select **[Use WPS via button]** to launch the connection process.



Please observe the display overlays. The connection process is generally completed in a few seconds and the WLAN connection can be used. Alternatively the **[Use WPS via PIN]** function can be used if this function is supported by the router.

16.1.1.3 Manual configuration

- > Select **[Set manually]** and then **[Wireless]** to launch manual configuration.

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- > Now select whether to allow automatic retrieval of the IP address, gateway etc. from your router (DHCP active) or if you would like to enter this manually (DHCP inactive).



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

- > One by one, enter the IP address, subnet mask, gateway address, primary DNS and secondary DNS if required, using the **Arrow buttons** on the remote control. Confirm each set value with the **OK** button.
- > Now enter the name (SSID) of your WLAN network using the virtual keyboard and confirm with **OK**.
- > Select whether your WLAN network is **Unencrypted**, encrypted by **WEP** or by **WPA/WPA2** and confirm the following item.
- > Then use the virtual keyboard to enter your WLAN password and confirm with **OK** to start the connection process.



In general, the WLAN connection can be used after a few seconds.

16.1.2 Display settings

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

16.1.3 TechniSat Connect PIN

You can control the DIGITRADIO 10 IR via the TechniSat CONNECT App. To do so, the PIN for the DIGITRADIO 10 IR must be entered in the App. You can change the PIN as follows.

- > Under **[TechniSat CONNECT PIN]**, enter the 4-digit PIN and press the **OK** button to save it.

16.1.4 Delete network profile

Use the **[Delete Inactive Networks]** or **[Delete All Networks]** menu items to delete an existing connection to a particular wireless network or to all configured networks and clear the settings you have made. If you wish to connect the device to this network again, you must carry out all the settings again.

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16.1.5 WLAN connection on standby

- > Under **[WLAN active on standby]**, select whether the WLAN connection is to be maintained in standby mode (**YES**) or not (**NO**).



Note that, for unrestricted and smooth use and operation via the **TechniSat CONNECT App**, this function must remain switched on.



The TechniSat CONNECT App can be downloaded from your smartphone's App store.

16.2 Time and date settings

16.2.1 Manually setting the date/time

Depending on the setting for time updates (Section 16.2.2), the date and time might have to be set manually.

- > Press the **MENU** button and select the **[Time/Date]** item in the **[System settings]** submenu.
- > Then press **OK**.
- > Use the **▲/▼** buttons to select the **[Set]** and press **OK**.

- > The first digits (day) of the date flash and can be changed using the ▲/▼ buttons.
- > Press the **OK** button to apply the setting.
- > The next date digits (month) then start to flash and can again be changed as described above.
- > Press **OK** after each additional setting in order to go to the next setting.
- > Proceed with the time in the same way as described above.
- > After all settings have been made and the **OK** button pressed for the last time, **[Time Saved]** appears in the display.

16.2.2 Time update

Here you can specify whether synchronisation should be carried out automatically via DAB+, Internet or FM, or whether you wish to enter it manually (Section 16.2.1).

- > Press the **MENU** button and use the ▲ / ▼ buttons to select the **[System settings] > [Time/Date] > [Synchronise]** item, then press **OK**.

> Use the ▲/▼ buttons to select the following options:

[Update from Internet] (Update via the Internet)

[Update from DAB] (Update via DAB+ only)

[Update from FM] (Update via FM only)

[No update] (Time/date must be entered manually, see Section 16.2.1).

> Press the **OK** button to save the setting.



If you have selected **[Update from Internet]**, you must also configure the time zone and the summer-/wintertime setting. This is carried out under **[System settings] > [Time/Date] > [Time zone]** and **[System settings] > [Time/Date] > [Summertime]**.

16.2.3 Setting the time format

Under **Set format** you can activate the 12 or 24 hour format.

> Press the **MENU** button and use the ▲/▼ buttons to select the **[System settings] > [Time/Date] > [12/24 Hours]** item, then press **OK**.

- > Use ▲/▼ to choose one of the following options:

[24 hours]

[12 hours]

- > Press the **OK** button to save.

16.3 Display settings

It is possible to set the display brightness both for operation and standby. There are also various colour schemes available.

- > Press the **MENU** button, select the **Display settings** item and press **OK**.

Colour scheme

Here you can specify which colour scheme should be used for the displays.

- > Use ▲/▼ to select the **[Colour scheme]** item. You choose between **Deep Black** and **Steel Blue**. Press the **OK** button to save.

Display

Here you can select the additional information display (depending on the source currently selected).

- > Use ▲/▼ to select the **[Display]** item. Select the additional information and press the **OK** button to save.

Picture size

Under **Picture size**, the picture size for the slideshow for DAB+ stations can be selected.

- > Use ▲/▼ to select the **[Picture size]** item. Select a picture size and press the **OK** button to save.

Brightness

- > Use ▲/▼ to select the **[Brightness]** item.

[Operation] regulates brightness in the normal operating status. You can choose from the **[High]**, **[Medium]** and **[Low]** brightness intensities. Use ▲/▼ to select the brightness level and press **OK** to save.

[Standby] regulates the brightness in standby mode. You can choose from the **[High]**, **[Medium]** and **[Low]** brightness intensities. Use ▲/▼ to select a

brightness level and press **OK** to save.

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

When the **[Off]** option is selected, the display will be permanently lit with the brightness selected under **[Operation]**. Press **OK** to apply the setting.

16.4 Language

- > Press the **MENU** button and use the ▲/▼ buttons to select the **[System settings]** > **[Language]** item, then press **OK**.
- > Use ▲/▼ to select one of the available languages and confirm by pressing the **OK** button.

16.5 Factory settings

If you change the location of the device, e.g. when moving house, it is possible that the saved stations can no longer be received. In this case you can reset the device to **factory settings** to delete all the saved stations and then launch a new scan.

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- > Press the **MENU** button and use the ▲/▼ buttons to select the **[System settings]** > **[Factory settings]** item, then press **OK**.
- > Use ▲/▼ to select the **[Yes]** option, then press **OK** to reset to the factory settings.



All previously stored stations and settings will now be deleted. The device is now in the same status as when delivered.

- > The display will show **[Restart ...]** and the device will start using the language selection **[Language]**. Please refer to the information in Section „8 Ersteinrichtung“ auf Seite 112.

16.6 System info

Under Software version you can retrieve the currently installed software version.

- > Press the **MENU** button and use the ▲/▼ buttons to select the **[System settings]** > **[System info]** item, then press **OK**.
- > The current software version is displayed.

16.7 SW update

The SW update option is used to update the device software and is only intended for use when servicing.

16.8 Initial set-up

Here the initial set-up wizard can be accessed again. For more details, see Section „8 Ersteinrichtung“ auf Seite 112.

16.9 Data protection

Under this option you can find the data protection information.

17 Cleaning



To prevent the risk of electric shock, you must not clean the device using a wet cloth or under running water. Prior to cleaning, pull out the mains plug and switch off the device.



You must not use scouring pads, scouring powder and solvents such as alcohol or petrol.



Do not use any of the following substances: saltwater, insecticide, chlorine-based or acidic solvents (ammonium chloride).



Clean the housing using a soft, damp cloth. Do not use spirit, thinners, etc.; you could damage the surface of the device.



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



Gently clean the surface using the cotton cloth.

18 Troubleshooting

If the device does not operate as intended, check the following table for information.

Symptom	Possible cause/remedy
The device cannot be switched on.	The device is not being 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 device from the power supply and then reconnect it.
Poor reception via DAB+/FM.	Fully extend the antenna. Change the position of the antenna or the DIGITRADIO 10 IR.
The device cannot be operated.	Disconnect the device from the power supply and then reconnect it.

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Symptom	Possible cause/remedy
Bad Bluetooth connection and dropouts	Do not exceed the maximum range for Bluetooth of 10m.
Device automatically switches to standby	<p>The auto-standby function automatically switches the device to standby after approx. 15 minutes in the following circumstances:</p> <ul style="list-style-type: none"> No sound is played No device is connected via Bluetooth when the device is in Bluetooth mode Volume is muted.

If the malfunction has not been resolved, even after performing the checks described, please contact the Technical Hotline.

19 Technical specifications / manufacturer's instructions

Subject to technical changes and errors.

Reception channels	DAB/DAB+, FM, Internet, Bluetooth
Power supply, power supply unit	DC: 5V, 1A via supplied external power cable
Frequencies	FM: 87.5-108 MHz DAB/DAB+: 174 - 240 MHz DAB+ Cable: 252 - 261 MHz Bluetooth: 2.402 - 2.480 GHz Transmission power: Class 2 / max. +4 dBm WLAN: 2400 MHz - 2483 MHz Transmission power: max. 100 mW 5150 MHz - 5350 MHz Transmission power: max. 100 mW 5470 MHz - 5725 MHz Transmission power: max. 100 mW 5725 MHz - 5850 MHz Transmission power: max. 25 mW

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Bluetooth protocols	Version V4.1 AVRCP, A2DP
WLAN	IEEE 802.11 a/b/g/n Dual band 2.4/5 GHz
Display	TFT colour 2.8" 320 X 240 pixels RGB
Power consumption	in typical operation: 1.4 W (DAB mode) on standby: 0.72 W
Consumption minimisation (automatic shutdown after 15 minutes on standby)	If no signal is being played: DAB, Bluetooth (if not connected). If the volume is turned down: DAB, FM, Bluetooth
Weight (g)	157
Dimensions (WxHxD) mm	112 x 95 x 60