

# Instruction Manual

## **DIGITRADIO** 1990

Portable DAB+/FM radio with CD player und Bluetooth music streaming



# TechniSat

## **Preface**

### **Dear Customer,**

Thank you for choosing the DIGITRADIO 1990 from TechniSat.

This instruction manual is intended to help you get to know the extensive functions that your new unit offers and to make the best use of them. It will help you to use the product as intended and safely. It is intended for anyone who is installing, operating, cleaning or disposing of the unit.

Store the instruction manual in a safe place for later use.

A current version of the instruction manual can be found in the download area for your product on the TechniSat website at [www.technisat.de](http://www.technisat.de).

We hope you enjoy your  
TechniSat DIGITRADIO 1990!

The  
TechniSat Team

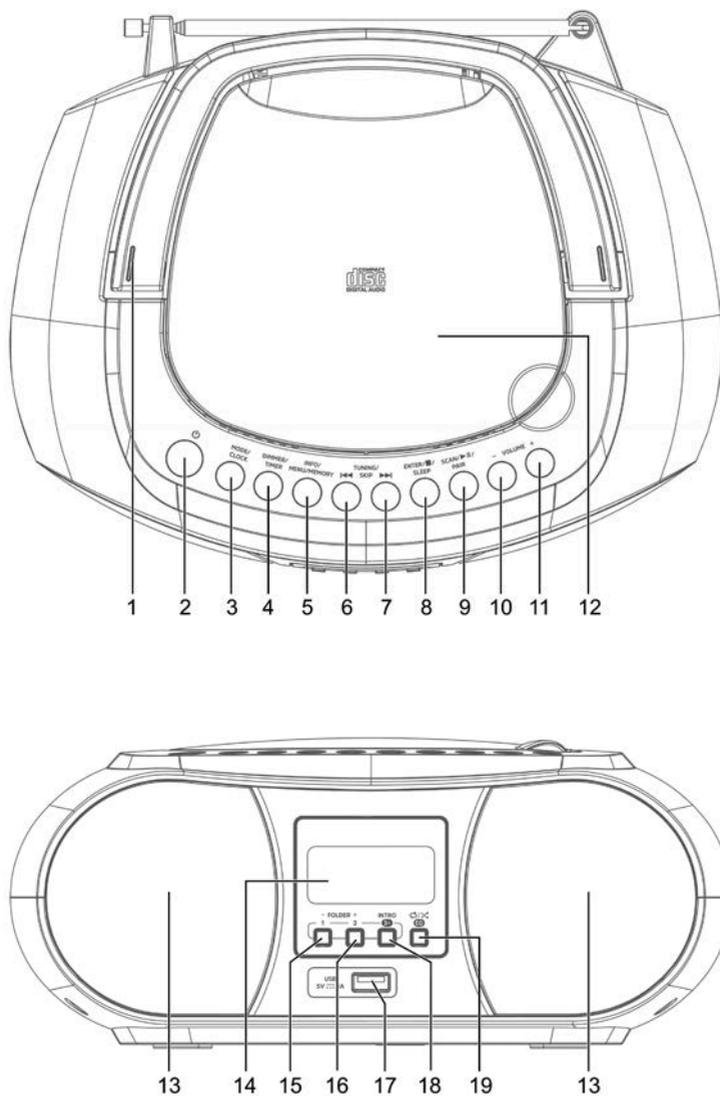
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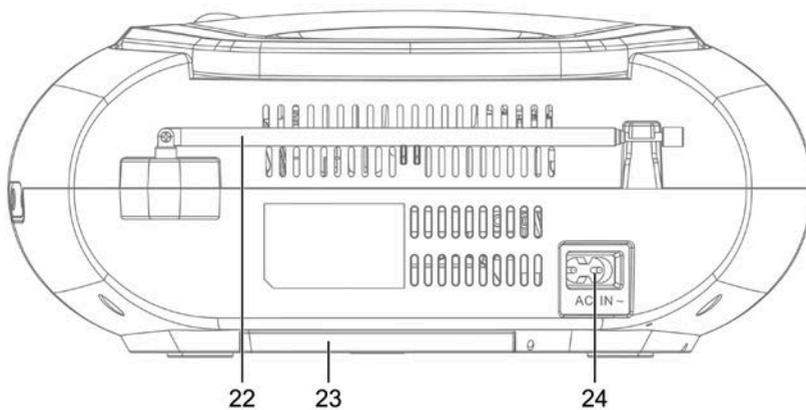
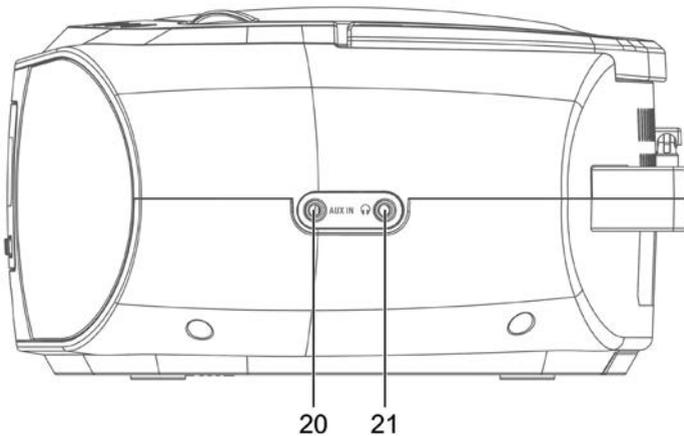
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## 2 Illustrations

Top and front



Side illustrations and the rear



- 1 **Carry handle**
- 2 **On/Standby** (Hold down to switch on in battery mode)
- 3 **MODE/CLOCK** - During operation: Switch sources;  
In standby mode: Set time manually.
- 4 **DIMMER/TIMER** - During operation: Adjust display brightness;  
In standby mode: Set timer.
- 5 **INFO/MENU/MEMORY** - Press briefly to select display;  
hold down to access the main menu;  
in CD mode: programming
- 6  **TUNING/SKIP** - Menu selection/Search for track/Previous track (CD)
- 7  **TUNING/SKIP** - Menu selection/Search for track/Next track (CD)
- 8  **ENTER/STOP/SLEEP** - Confirm selection/Stop (CD);  
Hold down: Sleeptimer
- 9  **SCAN/Play/Pause/PAIR** -  
In radio mode: Search for stations;  
CD: Play/Pause;  
Bluetooth: Pair a device.
- 10 **Volume -**
- 11 **Volume +**
- 12 **CD compartment cover**
- 13 **Stereo speakers**
- 14 **Display**
- 15 **One-touch button1/Favourites memory** (radio mode), **Folder -** (CD)
- 16 **One-touch button2/Favourites memory** (radio mode), **Folder +** (CD)
- 17 USB port for charging external devices.
- 18 **One-touch buttons 3 - 30/Favourites memory** (radio mode);  
Play intro (CD)
- 19 CD mode: Playback mode/Random (Shuffle)/Equaliser.
- 20 **Audio In** (3.5 mm)
- 21 **Headphone socket** (3.5 mm)
- 22 **Telescopic antenna**
- 23 **Battery compartment cover**
- 24 **Mains connection**

### 3 Safety instructions

#### 3.1 Intended use

This device is designed to play radio broadcasts via DAB+ and FM. It can also play audio CDs and MP3 CDs. It is also possible to play from audio sources connected via Bluetooth. The device can be operated either via the mains or using batteries.

#### 3.2 Operating the DIGITRADIO 1990 correctly

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.

##### Explanation of symbols:



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

- DANGER** - Serious risk of fatal injury
- WARNING** - Serious injury, possibly fatal
- CAUTION** - Injuries



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



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



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.

### 3.3 Scope of use



#### **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.

- In the event of damage resulting from incorrect connection, no warranty claim can be made.
- Any required intervention may only be performed by qualified staff.
- The device must only be operated in an appropriate climate.
- 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, switch off the device and inform the Service department.
- Never try to operate the device using a voltage other than that specified for the device.
- If the device or mains cable shows signs of damage, it may not be put into operation.
- Do not put the device into operation in the vicinity of baths, showers, swimming pools or running/splashing water. There is a risk of electric shock and/or device defects.
- Never try to repair a faulty device yourself. Always contact one of our customer service locations.
- 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.
- Never allow children to use the device unsupervised.
- Even when switched off and on standby, the device is still connected to the mains power supply.
- Modifications to the device are prohibited.
- Damaged devices or damaged accessories must not continue to be used.
- Do not listen to the radio/music at too high a volume. Doing so can cause permanent hearing impairment. This also applies to connected headphones.

- The CD player uses an invisible laser beam. If used incorrectly, this can injure your eyes. Never look directly into the open CD compartment.



- This device has been classified as a CLASS 1 LASER.



### 3.4 Setting up the device

- Place the device on a firm, secure and horizontal base. Make sure the area is well ventilated.
- 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 cover the radio with curtains, blankets or newspapers.
- 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 a high air humidity, e.g. a kitchen or sauna, as the precipitation of condensation water 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.
- You may only operate the device in a horizontal position.
- Do not place any heavy objects on the device.
- If you move the device from a cold environment to a hot environment, moisture could accumulate inside the device. In this case, wait for around an hour before using the radio.
- Route the mains cable in such a way that nobody can trip over it.
- The power outlet should be as close to the device as possible.
- To ensure a connection to the mains, insert the plug fully into the socket.
- Use a suitable, easy-to-access mains connection and avoid using multiple socket strips.
- Do not handle the mains adapter or power cord with wet hands, as there is a risk of electric shock!
- In the case of malfunctions or detecting smoke or odour from the housing, remove the plug from the power outlet immediately.

- Remove the plug before a storm starts.
- 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.
- Do not set up the device in the vicinity of equipment which emits intense magnetic fields (e.g. motors, speakers, transformers).

## 4 Disposal

The device packaging is exclusively comprised of recyclable materials. Please sort the components appropriately, and dispose of them in line with your local waste disposal regulations. At the end of its service life, this device must not be disposed of with your regular household waste. It must be taken to a recycling collection point for electrical and electronic equipment.

This is indicated by the  symbol on the product, the instruction manual or the packaging.

The materials are recyclable according to their identification.

An important contribution is made to protecting our environment by recycling, recovery of materials and other kinds of recycling of old devices.



Please ask the local authority for the location of the relevant disposal point. Ensure that used batteries/rechargeable batteries, as well as electronic waste, are not disposed of with household waste, but are properly disposed of (returned to the specialist dealer, hazardous waste).



**WARNING** Risk of suffocation from films and other packaging materials. Keep packaging and parts thereof away from children.



### Disposal of packaging:

- Your new device was protected by packaging on its way to you. All materials used are environmentally-friendly and recyclable. Please collaborate and dispose of the packaging in an environmentally-friendly way. Ask for information from your dealer regarding current disposal means or your local disposal facility.
- Risk of suffocation! Keep packaging and parts thereof away from children. Risk of suffocation from films and other packaging materials.



### Device disposal:

- Old devices constitute valuable waste. Valuable raw materials can be recovered by environmentally-friendly disposal. Consult your town or local authority as to the possibilities for environmentally-friendly and proper disposal of the device.
- This device is identified in accordance with the Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU.
- At the end of its service life, this device must not be disposed of with your regular household waste. It must be taken to a recycling collection point for electrical and electronic equipment. The symbol on the product, the instruction manual or the packaging indicates this. The materials are recyclable according to their identification. An important contribution is made to protecting our environment by recycling, recovery of materials and other kinds of recycling of old devices.

## 5 Legal notices



TechniSat herewith declares that the radio system model DIGITRADIO 1990 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=22795>



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



Your device bears the CE symbol and complies with all requisite EU standards. Changes and printing errors reserved. Version 12/19. Copying and reproduction are subject to the publisher's consent. The respective current version of the instructions can be downloaded in PDF format in the download area of the TechniSat Homepage at [www.technisat.de](http://www.technisat.de).



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TechniPark

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

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

## 5.1 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](http://www.technisat.de/reparatur).

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

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



## 6 Description of the device

### 6.1 Scope of delivery

Please ensure that all of the following accessories are present:

- DIGITRADIO 1990, mains cable, instruction manual.

### 6.2 Features of the radio

- This digital DAB+ radio uses a new digital format that delivers a crystal-clear sound CD quality.
- The radio can receive the following frequencies: FM 87.5-108 MHz (analogue) and DAB / DAB+ 174-240 MHz (digital).
- You can save 30 stations as favourites in each different mode (DAB and FM).
- CD player (Audio/MP3)
- External source via AUX IN
- MP3 playback via USB and Bluetooth
- Battery mode

## 7 Preparing the device for use

### 7.1 Improving the antenna reception

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 DAB / FM telescopic antenna (22).

The antenna must be extended to its full length and positioned for best reception.

Note:

To receive digital radio stations (DAB/DAB+ operation) the telescopic antenna should be extended to its full length.



Possibly try to find another installation location.

### 7.2 Connecting to the mains

- > Insert the mains cable into the mains socket (24) on the DIGITRADIO 1990 and attach the plug to a wall outlet (100 - 240 V ~, 50/60 Hz)
- > Ensure that the operating voltage of the power adapter matches the mains voltage before you insert it into the wall socket.



When the device is not being used, remove the plug from the socket. Pull the plug and not on the cable. Remove the plug before a storm starts. 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. The heat generated during operation must be dissipated by means of sufficient air circulation. Therefore the device must not be covered or installed in a closed cupboard. Ensure there is a free space of at least 10 cm around the device.

### 7.3 Battery mode

- > The battery compartment is located on the underside of the DIGITRADIO 1990.
- > Slide the battery compartment cover (23) in the direction of the arrow and remove it.
- > 6 R14/C batteries are required for battery operation. Insert them with the polarity as indicated in the battery compartment.



Incorrectly inserted batteries can lead to device defects. Always check that the polarity is correct. Promptly replace batteries that are losing power.



Batteries can contain poisonous substances which harm the environment. Batteries are subject to European Directive 2006/66/EC. They must not be disposed of with normal domestic waste.



Several functions will not work in battery mode, or will work differently than in mains mode. Refer to the relevant section for more details.

## 8 Basic operation

### 8.1 Switching the radio on/off

To turn on your DIGITRADIO 1990, press the  **On / Standby** button (2). Press the button again to switch it off.



To turn the DIGITRADIO 1990 on in battery mode, you will need to press and hold the  **On/Standby** button.



After switching on for the first time, a station scan of all DAB+ channels is automatically launched.

### 8.2 Menu navigation

To carry out advanced settings, or to change existing ones, you will generally need to do so via the menu.

To navigate through the menu, use the function buttons on the device.

Please note that not all options are available in all modes. The main menu can only be accessed in DAB+ or FM mode.

- Access menu
- Navigate through the menu
- Save/Confirm changes
- Exit menu
- Keep the **INFO/MENU/MEMORY** button (5) pressed.
- **TUNING/SKIP** button (6, 7).
- **ENTER/STOP/SLEEP** button (8).
- Keep the **INFO/MENU/MEMORY** button (5)



The currently selected function/option is shown in square brackets < >. The currently active function/option is shown with an asterisk \*.

- > To exit the menu, wait for a short time or press the **INFO/MENU/MEMORY** button.

### 8.3 Adjusting the volume

To change the volume, use the buttons marked Volume on the device. To increase the volume, press **VOLUME +** (11); to reduce it, press **VOLUME -** (10).

### 8.4 Using headphones



#### **WARNING!**

Do not listen to the radio at high volume with headphones. Doing so can cause permanent hearing impairment. Turn down the radio volume to the lowest volume before using headphones.

When you attach headphones (not in the scope of delivery), the device's speakers are muted.

- > Only use headphones with a 3.5 mm stereo jack plug.
- > Insert the headphone plug into the headphone jack (21) on the side of the device. Sound is now played exclusively through the headphones.
- > If you would wish to use the speakers again, unplug the headphones from the headphone jack on the device.

### 8.5 Playback modes

Your device has different possible reception routes for playback. These are described below.

- > To switch between the individual modes, briefly press the **MODE/CLOCK** button (3).

The currently active playback mode is shown in the display.

The modes are:

DAB+ radio, FM radio, CD, USB, Audio In, Bluetooth.

## 9 DAB+ (Digital Radio) function

### 9.1 What is DAB+?

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](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**] is shown in 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.

### 9.3 Station search (auto)

#### 9.3.1 Automatic 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.

> To carry out an automatic station scan, press the **SCAN/Play/Pause/PAIR** button (9).

Alternatively:

> Open the main menu by holding down the **INFO/MENU/MEMORY** button (5) and use the **TUNING/SKIP** buttons (6, 7) to select the **<Complete Scan>** item. Press the **ENTER/STOP/SLEEP** button (8) to start the scan.



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



If no stations are detected, check the telescopic antenna and, if required, change the installation location.

#### 9.3.2 Manual scan

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

- > Open the main menu by holding down the INFO/**MENU**/MEMORY button (5) and use the **TUNING/SKIP** buttons (6, 7) to select the **<Manual Setting>** item. Press the **ENTER/STOP/SLEEP** button (8).
- > Use the **TUNING/SKIP** buttons (6, 7) to select a channel (5A to 13F) and then press the **ENTER/STOP/SLEEP** button (8). The signal intensity will now be shown in 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. Readjust the antenna position if required.



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.

#### 9.4 Selecting stations

- > By pressing the **TUNING/SKIP** buttons (6, 7), the station list can be accessed and you can switch between the available stations. Press the **ENTER/STOP/SLEEP** button (8) to play the station.

#### 9.5 Storing DAB+ stations on a memory slot



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

- > Now select the desired station.
- > In order to store this station on a memory slot, **hold down** the **3+** (18) button during playback until **[Save P3]** appears in the display. Then use the **TUNING/SKIP** buttons (6, 7) to select a favourites memory slot (1-30). Press the **ENTER/STOP/SLEEP** button (8) to save.
- > Repeat this process to save additional stations.



You can also save stations to one of the **One-Touch buttons (1 or 2 - 15, 16)** by holding down the corresponding button for a bit longer.

#### 9.6 Retrieving DAB+ stations from a memory slot

- > To retrieve a station that you have already stored in the favourites memory, **briefly** press the **3+** (18) button and select a station slot (1 - 30) using the **TUNING/SKIP** buttons (6,7). Press the **ENTER/STOP/SLEEP** button (8) to play the station.



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



Alternatively **One-Touch button 1 or 2 (15, 16)** can also be used.

## 9.7 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.

## 9.8 Adjusting the display

> Press the **INFO/MENU/MEMORY** button (5) multiple times to scroll through the various display modes.

The following display modes are possible in DAB mode: Ensemble, Frequency, Date, Time, Signal Strength, Signal Error, Transfer Rate, Genre, Additional Info.

## 9.9 Volume adjustment (DRC)

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

> Open the main menu by holding down the **INFO/MENU/MEMORY** button (5) and use the **TUNING/SKIP** buttons (6, 7) to select the **<Volume Adjustment>** item. Press the **ENTER/STOP/SLEEP** button (8).

> Now use **TUNING/SKIP** (6,7) to select a compression rate:

- DRC high** - High compression
- DRC low** - Low compression
- DRC off** - Compression switched off.

> Confirm the setting with **ENTER/STOP/SLEEP** (8).

## 9.10 Deleting inactive stations

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

> Open the main menu by holding down the **INFO/MENU/MEMORY** button (5) and use the **TUNING/SKIP** buttons (6, 7) to select the **<Inactive Station>** item. Press the **ENTER/STOP/SLEEP** button (8).

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

> Use **TUNING/SKIP** (6, 7) to select the **[Yes]** item and confirm by pressing the **ENTER/STOP/SLEEP** button (8).

## 10 FM radio

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

### 10.1 Setting the frequency manually

> Use the **TUNING/SKIP** buttons (6, 7) to change the signal frequency. In this way you can set a specific frequency to receive the desired station. If the frequency is set correctly, the preset station will be indicated by name, if this RDS information is transmitted. Each pressing of the **TUNING/SKIP** (6, 7) buttons increases the broadcasting frequency by 0.05 Mhz.

## 10.2 Searching for stations automatically

As an alternative to manual setting of the reception frequency, you can also search for stations automatically. To do so, access the settings you have set up under Scan Settings.

> Press the **SCAN**/Play/Pause/PAIR button (9). Scan appears in the display..

The device now searches for the next station it can receive, and then plays it.

> Repeat the procedure to search for another station.

Alternatively:

> Hold down the **TUNING/SKIP** button (6, 7) to search for the next station that can be received.

## 10.3 Saving FM stations to a memory slot



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

> Now select the desired station.

> In order to store this station on a memory slot, **hold down** the **3+** (18) button during playback until **[Save P3]** appears in the display. Then use the **TUNING/SKIP** buttons (6, 7) to select a favourites memory slot (1-30). Press the **ENTER/STOP/SLEEP** button (8) to save.

> Repeat this process to save additional stations.



You can also save stations to one of the **One-Touch buttons** (1 or 2 - 15, 16) by holding down the corresponding button for a bit longer.

## 10.4 Retrieving FM stations from a memory slot

> To retrieve a station that you have already stored in the favourites memory, **briefly** press the **3+** (18) button and select a station slot (1 - 30) using the **TUNING/SKIP** buttons (6,7). Press the **ENTER/STOP/SLEEP** button (8) to play the station.



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



Alternatively **One-Touch button 1** or **2** (15, 16) can also be used.

## 10.5 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.

## 10.6 Adjusting the display

- > Press the **INFO/MENU/MEMORY** button (5) multiple times to scroll through the various display modes.

The following display modes are possible in FM mode: Frequency, Date, Time, Genre, Sound Info, Additional Info.

## 10.7 Scan settings

- > Open the main menu by holding down the **INFO/MENU/MEMORY** button (5) and use the **TUNING/SKIP** (6, 7) buttons to select the **<Scan Settings>** item. Press the **ENTER/STOP/SLEEP** button (8).
- > Now select whether weak stations [All stations] are to be detected during the scan or Only Strong Stations and confirm your selection by pressing the **ENTER/STOP/SLEEP** button (8).

## 10.8 Audio settings

Depending on the signal quality, stations can be played in stereo or mono.

- > Open the main menu by holding down the **INFO/MENU/MEMORY** button (5) and use the **TUNING/SKIP** buttons (6, 7) to select the **<Audio Settings>** item. Press the **ENTER/STOP/SLEEP** button (8).
- > Use **TUNING/SKIP** (6,7) to select the **[Stereo optional]** option if you want the stations to be played back in stereo (depending on the signal quality) or **[Mono only]** if the stations are to be played back in mono only.
- > Confirm your selection by pressing the **ENTER/STOP/SLEEP** button (8).



If the signal quality is too weak, the station is always played in mono mode.

## 11 CD player

### 11.1 Selecting CD mode

- > Press the **MODE** button until **[CD]** appears in the display.

### 11.2 Inserting a CD



You can play audio or MP3 CDs in the CD player.

- > To insert a CD, simply lift up the cover using the tab (LIFT TO OPEN).
- > Once the cover has been opened, place the CD on the spindle with the label side up and press down gently on the centre of the CD until it audibly clicks into place.
- > Close the cover by pushing it down until it sits on the housing.
- > If the CD cannot be read (e.g. if it is dirty), **[No CD]** appears in the display. If this happens, clean the underside of the CD with a soft, lint-free cloth.

### 11.3 Playing audio CDs

Use the SCAN/**Play/Pause**/PAIR (9), **TUNING/SKIP** (6, 7) and ENTER/**STOP**/SLEEP (8) play buttons to control audio CD playback. The



track number (T) and track playing time now appears in the display.

Play: 

Pause (during playback): 

Next track: 

Previous track: 2x 

Current track from the beginning: 1x 

Fast forward: hold down 

Fast rewind: hold down 

Stop playing:  (the total number of tracks T on the disk appears in the display)

Furthermore, the play modes **Repeat Track**, **Repeat All**, **Shuffle** and **INTRO** are available. Briefly press the **INTRO** button (18) or Playback Mode/Shuffle (19) to select the playback mode. The selected playback mode is shown in the display.

**[Repeat Track]:** The current track is played repeatedly.

**[Repeat All]:** All tracks are played repeatedly.

**[Shuffle]:** The tracks are played in a random sequence.

**[INTRO]:** Only the first 10 seconds are played.

**[DISC]:** A standard mode in which playback is ended when all the tracks have been played.

## 11.4 MP3 CD playback

Playback of MP3 CDs is the same as for audio CDs.



The folder number (F) followed by the track number and track playing time appear in the display.

Play:

Pause (during playback):

Next track:

Previous track: 2x

Current track from the beginning: 1x

Fast forward: hold down

Fast rewind: hold down

Stop playback:

You can use the **FOLDER +/-** buttons (15, 16) to select a folder/album.

Furthermore, the play modes **Repeat Track**, **Repeat Album**, **Repeat All**, **Shuffle** and **INTRO** are available. Briefly press the **INTRO** button (18) or **Playback Mode/Shuffle** (19) to select the playback mode. The selected playback mode is shown in the display.

**[Repeat Track]**: The current track is played repeatedly.

**[Repeat Album]**: The current album/folder is repeated.

**[Repeat All]**: All tracks are played repeatedly.

**[Shuffle]**: The tracks are played in a random sequence.

**[INTRO]**: Only the first 10 seconds are played.

**[DISC]**: A standard mode in which playback is ended when all the tracks have been played.

### 11.4.1 Show ID3 tags

> Briefly press the **INFO/MENU/MEMORY** button (5) to switch the ID3 tag display on or off.



ID3 tags are only displayed when they are present on the MP3 CD or the current track.

## 11.5 Program playback

You can program the playback sequence for audio CDs (32) and MP3 CDs (64).

- > First stop any track that is playing by pressing the ENTER/**STOP**/SLEEP button (8).
- 1. Hold down the INFO/MENU/**MEMORY** button (5) until [**MEMP-01**] appears in the display.
- 2. Select the first track to be played using the **TUNING/SKIP** buttons (6, 7).
- 3. Press INFO/MENU/**MEMORY** (5) to store the first track.
- 4. Use the **TUNING/SKIP** buttons (6, 7) again to select the second track to be played.
- 5. Press INFO/MENU/**MEMORY** (5) again to store it.



Proceed in this way with all of the tracks you want to program.

- 6. To play the program, press the SCAN/**Play/Pause**/PAIR button (9).



If you want to program playback for an MP3 CD, you must select the folder in which the track is located before selecting each track. Select the folder using the **FOLDER +/-** buttons (15, 16) and confirm with INFO/MENU/**MEMORY** (5). You can then use **TUNING/SKIP** (6, 7) to select the track you want in this folder and likewise confirm with INFO/MENU/**MEMORY** (5).



To end the programmed playback, press the ENTER/**STOP**/SLEEP button (8) twice or open the CD compartment lid.

## 12 USB playback

MP3 tracks that are located on a USB mass storage device such as a USB stick can be played on the DIGITRADIO 1990. Insert the USB mass storage device into the **USB port** (17) on the front of the DIGITRADIO 1990.



The USB port can also be used to charge external devices such as smartphones. Note the power rating on the device.

### 12.1 Selecting USB mode

- > Press the **MODE** button until [**USB**] appears in the display.

### 12.2 Playing from USB media

Playing MP3 tracks on USB mass storage devices works in the same way as playing from MP3 CDs.



The folder number (F) followed by the track number and track playing time appear in the display.

Play: 

Pause (during playback): 

Next track: 

Previous track: 2x 

Current track from the beginning: 1x 

Fast forward: hold down 

Fast rewind: hold down 

Stop playback: 

You can use the **FOLDER +/-** buttons (15, 16) to select a folder/album.

Furthermore, the play modes **Repeat Track**, **Repeat Album**, **Repeat All**, **Shuffle** and **INTRO** are available. To select the playback mode, briefly press the **INTRO** (18) or Play/Shuffle (19) button. The selected playback mode is shown in the display.

**[Repeat Track]:** The current track is played repeatedly.

**[Repeat Album]** The current album/folder is repeated.

**[Repeat All]:** All tracks are played repeatedly.

**[Shuffle]:** The tracks are played in a random sequence.

**[INTRO]:** Only the first 10 seconds are played.

**[USB]:** Standard mode where playback ends when all tracks have been played.

## 13 Bluetooth playback

When an external playback device such as a smartphone is connected, you can play music tracks on the DIGITRADIO 1990. When doing so, you can control the playback on your external playback device.



The maximum range in Bluetooth mode is 8 metres. If disruptive noise or dropouts occur during playback, reduce the distance between the external device and the DIGITRADIO 1990.

### 13.1 Selecting Bluetooth mode

> Press the **MODE** button until **[BLUETOOTH]** appears in the display.

### 13.2 Pairing with external devices



Refer to the notes in the instruction manual for your external device regarding the process for pairing with other devices.

- > Select Bluetooth mode as described. **[BT Connection]** now flashes in the display if no device has yet been paired with the DIGITRADIO 1990.
- > Open the Bluetooth scan for other devices on your external device.
- > In the list of discovered devices, select **DIGITRADIO 1990** by tapping it.



If required, enter a password, or use "0000" (4 zeros).

- > A confirmation tone is heard on the DIGITRADIO 1990 when a successful connection is made.
- > Start playing music on your external device...



To pair with another device after successful pairing, hold down the SCAN/Play/Pause/**PAIR** button **(9)** to launch the pairing mode.

## 14 AUDIO IN

External devices such as smartphones can be connected with the DIGITRADIO 1990 via the analogue audio input AUX IN (20). Music can then be played on the DIGITRADIO 1990 via the headphone socket or audio output of your external device.

### 14.1 AUX IN playback

- > Press the **MODE** button until **[AUDIO IN]** appears in the display.
- > Connect an audio cable (3.5 mm jack plug) to the audio output of your external device and insert it into the AUX IN socket (20) on the side of the device.
- > To set the volume to the optimum level, use both the volume control on the DIGITRADIO 1990 and on the connected device. Set the volume on the connected device as high as possible and then regulate the volume on the DIGITRADIO 1990. If the volume on the connected device is set too low, you will probably hear interference in the sound on the DIGITRADIO 1990.



If no music is played for 4 hours, the DIGITRADIO 1990 automatically switches to standby mode.

## 15 Other functions

### 15.1 Sleep timer

The sleep timer automatically switches the DIGITRADIO 1990 to standby after a specified time.

- > Press and hold the **ENTER/STOP/SLEEP** button (8) until **[SLEEP]** appears in the display.
- > You can use the **TUNING/SKIP** buttons (6, 7) to enter a period after which the DIGITRADIO 1990 should switch off.
- > Confirm by pressing the **ENTER/STOP/SLEEP** button (8).



When the sleep timer is enabled, an "S" appears in the display next to the time.

- > Select **Sleep Timer > Off** to switch off an active sleep timer.

### 15.2 Alarm function

The DIGITRADIO 1990 has an internal alarm that you can program.



The alarm is only available when the DIGITRADIO 1990 is connected to the mains. The alarm will not work in battery mode.

- > Switch the DIGITRADIO 1990 to standby mode.
- > Press the **DIMMER/TIMER** button (4). Timer On appears in the display and the hour numbers flash.
- > Enter the hours using the **TUNING/SKIP** buttons (6, 7) and confirm with **DIMMER/TIMER** (4). The minutes now flash.
- > Set the minutes using the **TUNING/SKIP** buttons (6, 7) and confirm with **DIMMER/TIMER** (4).
- > You then need to enter the Timer Off time as described.
- > You then enter the source. Use the **TUNING/SKIP** buttons (6, 7) to select one of the available playback sources and confirm using the **DIMMER/TIMER** button (4) again.
- > Finally, set the alarm sound volume. Select the volume using the **TUNING/SKIP** buttons (6, 7) and save the alarm using the **DIMMER/TIMER** button (4).



The alarm is now active and a clock icon appears in the display. To switch off an alarm, hold down the **DIMMER/TIMER** button (4) until the clock icon is no longer displayed.



If DAB+ or FM is selected as the alarm sound, the last-set station is always played.

### 15.3 Equaliser

The DIGITRADIO 1990 has multiple sound presets.

- > Hold down the **EQ** button (19).
- > Use the **TUNING/SKIP** buttons (6, 7) to select from the CLASSIC - JAZZ - ROCK - POP - FLAT sound curves.
- > Press the **ENTER/STOP/SLEEP** button (8) to confirm the setting.

### 15.4 Dimmer

The display brightness can be adjusted in 4 steps.

- > Switch the DIGITRADIO 1990 on.
- > Press the **DIMMER/TIMER** button (4) multiple times to scroll through the various brightness settings (Bright, Medium, Dark and Off).



The same brightness settings apply in standby mode as in normal operation.



In battery mode, the display is always dimmed and only becomes brighter by pressing a button. It is dimmed again after 10 seconds, to save battery power.

### 15.5 Setting the time

The DIGITRADIO 1990 basically derives the current time from the DAB+ signal. If you are operating the device for the first time, it may take some time until the clock is synchronised. If you want to set the time manually (if no DAB+ signal is available), please proceed as follows:

- > Switch the DIGITRADIO 1990 to standby mode.
- > Briefly press the **MODE/CLOCK** button (3).
- > Use the **TUNING/SKIP** buttons (6, 7) to enter the time format. Press the **MODE/CLOCK** button (3) to accept the setting.
- > The hour numbers now flash. Use the **TUNING/SKIP** buttons (6, 7) to enter the hours and confirm with **MODE/CLOCK** (3).
- > The minute numbers then flash. Use the **TUNING/SKIP** buttons (6, 7) to enter the minutes and confirm with **MODE/CLOCK** (3). The time is saved.

### 15.6 Language

- > Select DAB+ or FM radio mode.
- > Open the main menu by holding down the **INFO/MENU/MEMORY** button (5) and use the **TUNING/SKIP** buttons (6, 7) to select the **<Language>** item. Press the **ENTER/STOP/SLEEP** button (8).

- > Use the **TUNING/SKIP** buttons (6, 7) to select one of the available languages and confirm with **ENTER/STOP/SLEEP** (8).

## 15.7 Software version

- > Select DAB+ or FM radio mode.
- > Open the main menu by holding down the **INFO/MENU/MEMORY** button (5) and use the **TUNING/SKIP** buttons (6, 7) to select the **<SW Version>** item. Press the **ENTER/STOP/SLEEP** button (8).
- > The software version currently installed will now be displayed.

## 15.8 Factory settings

If you want to reset the DIGITRADIO 1990 to the delivery status, proceed as follows:

 Doing so will delete all settings, stations and favourites.

1. Select DAB+ radio mode.
2. Open the CD compartment cover.
3. Hold down the Folder +/2 button (16) on the front until **[Restart]** appears in the display.

## 16 Cleaning the device

 **WARNING** Electric shock!

To prevent the risk of an electric shock, you must not clean the device using a wet cloth or under running water. Before cleaning, disconnect from the mains and remove any inserted batteries.

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

- > Clean the housing using a soft, moist cloth.

## 17 Troubleshooting

### 17.1 Problems with the radio

Symptom	Possible cause/remedy
No radio stations are being received.	Change the orientation of the antenna if necessary. Check whether DAB or FM mode has been selected.
No DAB signal is being received.	Check whether DAB reception is possible in your region. Realign the antenna. Try to receive other stations.

<b>Symptom</b>	<b>Possible cause/remedy</b>
The sound is weak or of poor quality.	Other devices such as televisions are disrupting reception. Move the unit further away from these devices.
	The antenna is not extended or correctly orientated. Extend the antenna. Rotate the antenna to improve reception.

## 17.2 Problems with the device

<b>Symptom</b>	<b>Possible cause/remedy</b>
The device cannot be switched on.	Connect the mains lead to the radio. Insert new batteries.
No sound can be heard.	Increase the volume. Remove the headphone jack from the device if you want to listen via the speakers. Possibly the wrong source has been selected.
Distorted sound can be heard.	In the vicinity of the device, a mobile phone or other device is emitting disruptive radio waves. Remove the mobile phone or device from the vicinity of the radio.
Other operational malfunctions, loud noises or a malfunctioning display are occurring.	Electronic components in the device are malfunctioning. Remove the mains plug. Keep the device separated from the power source for approx. 10 sec. Reconnect the device.
CD or MP3 CD is not detected or music skips when played.	Carefully clean the underneath of the CD. Use another CD.
Malfunction with reception via a Bluetooth connection	The two devices must only be a maximum of 8 metres away from each other. Limit the distance.
The display does not switch on.	Switch the device off. Remove the mains plug, reinsert it and switch the device on. Check the display brightness setting.

## 18 Technical data

Model	DIGITRADIO 1990
Power supply	AC 100-240 V ~50/60 Hz, 18 W
Power consumption	Standby (without display lighting): 0.3 W Operating max.: 10 W Typical (medium volume): 2.5 W
Battery mode	6 x R14/C cells, 1.5 V
Bluetooth	V4.2 Audio profile: A2DP, AVRCP Frequencies: 2402MHz ~ 2480MHz, transmission capacity: 4dBm
Output power (music)	2 x 1.5 W RMS
USB	Output power: 5 V, 1 A, 5 W USB 1.1 and 2.0
Radio frequencies	DAB 174 - 240 MHz FM 87.5 - 108 MHz
CD	Media: CD-DA, CD-ROM, CD-R, CD-RW
MP3 decoder	Bit rate (kbps) 32-320 constant & variable bit rate (VBR)
Operating conditions	Temperature: 0°C ~ +35°C Humidity: 5% - 90%
Storage conditions	Temperature: 0°C ~ +35°C Humidity: 5% - 90%
Dimensions	approx. 270 mm (B) x 212 mm (D) x 116 mm (H)
Weight	approx. 1.23 kg

