

# TechniSat

## Manual DigitRadio 50



DAB/DAB+ UKW radio clock

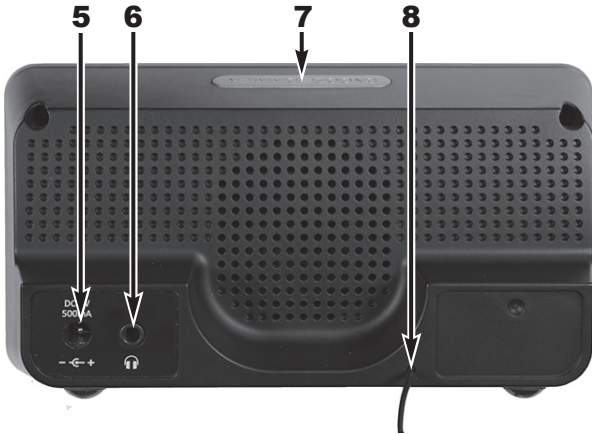
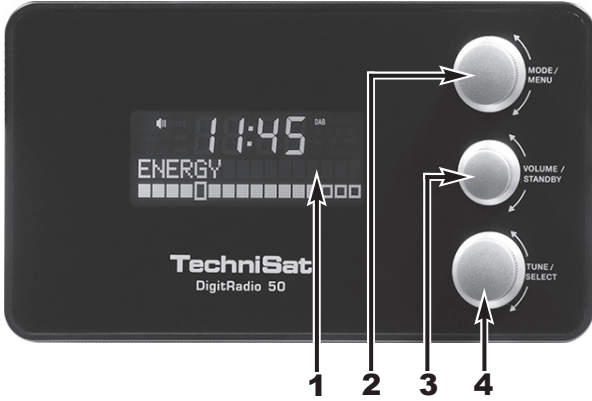
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# Pictures

1 2 3 4 5 6 7 8 1 2 display mode / menu Volume 3 / Standby 4 Tune / Select 5 6 DC jack 3.5mm stereo headphone jack 7 Snooze / Dimmer wire antenna 8 4



## Safety of the appliance

Please read all the safety instructions carefully and save this manual for future reference. Always follow all warnings and instructions in this manual and on the back of the device.

## Security

- The device should be connected only through the AC adapter to a mains voltage of 230 V, 50 Hz power. Never attempt to operate the unit with a different voltage.
- If the power supply of the device is defective or if the device has other damage, it should not be put into operation.
- Do not touch the AC adapter with wet hands, an electric shock can cause!
- Never allow unsupervised children to use this unit.
- To avoid fire hazard and the risk of electric shock, do not expose the unit to rain or moisture.
- Do not use the appliance near a bathtub, etc. or splash water during operation.
- If you move the unit from a cold to a warm location, moisture may condense inside the unit. You should wait in this case, for about an hour before you take operate it again.
- Should any solid object or liquid fall into the unit, unplug the AC adapter from the outlet. Have the unit checked by qualified personnel before you use it again. Otherwise there is a risk of electric shock.
- Never attempt to repair a defective product yourself.
- Do not open the housing. Otherwise there is a risk of electric shock.
- Do not insert any foreign objects inside the machine.
- The device remains connected to the mains even when switched off (standby).
- Unplug the AC adapter from the wall outlet when not using the unit for an extended period of time.
- Do not touch the terminals on the rear panel with metal objects.
- High volume, especially when using headphones can cause hearing loss.

## Setting up the device

- Set the equipment on a solid, secure and horizontal ground
- Ensure good ventilation.
- Place the unit on a soft surfaces like carpets, blankets, or near curtains, draperies.
- The device should not be concealed by curtains, blankets or newspapers
- Do not install the unit near heat sources such as radiators. Avoid direct sunlight and places with excessive dust.
- Do not place heavy objects on the device.
- Do not place the unit near devices that generate strong magnetic fields.

## Disposal

### Risk of suffocation

- Risk of suffocation due to the Packaging and its parts for children.

### Disposal of packaging

- The packaging of your device consists entirely of recyclable materials. Please follow these sorted according to the “Dual System”.



- About current means of disposal contact your dealer or at your community waste facility.

### Disposal of the appliance

- Old appliances are not worthless rubbish. By recycling valuable raw materials can be recovered. Check with your municipal or local government options for environmentally - friendly disposal of the device.



- This appliance is marked according to the Directive 2002/96/EC on Waste Electrical and Electronic Equipment ( WEEE).
- This product may not, at the end of his life be disposed via the normal household waste, but should be taken to a collection point for recycling of electrical and electronic equipment.
- The symbol on the product, user manual or packaging indicates the recycling of the product. The materials are recyclable according to their labeling. With the reuse, recycling or other forms of utilizing old devices, you are making an important contribution to protecting our environment.

## Guidelines and standards

- This product meets guidelines and standards
  - the Low Voltage Directive ( 2006/95/EC ),
  - the EMC Directive (2004/108/EC ) and the
  - CE Mark Directive. Your unit carries the CE mark and complies with all relevant EU standards.



## **Package Contents Please make sure that all items shown below are available :**

- DAB / DAB FM Clock Radio with wire antenna,
- Power Supply, 6V, 500 mA,
- Manual.

## **Properties of the device**

The DAB + digital radio is a new digital format, through which you can hear crystal clear sound in CD quality.

The radio receives on FM frequencies 87.5-108 MHz ( analogue) 174.9 to 239.2 MHz and DAB (digital).

You can save 10 station on favorite program places the DAB or FM mode.

The display has a light. This can be activated at different stages (see display illumination ).

## **Preparing the device for operation**

Connect the device with the supplied AC adapter to the mains (230 V ~ / 50 Hz).

>To bring power to the device, the cable of the AC adapter needs first be connected into the DC 6V (page 5 # 5 ) on the unit and then plug the power adapter into the socket 230 V ~ / 50 Hz plug.

>After the initial installation of the network connection temporarily “ Welcome to digital radio “ appears.

Please unplug the AC adapter from the outlet when not in use, prolonged absence or thunderstorms.

## **Improve antenna reception**

The number and quality of received stations depends on the reception conditions at the installation site. With the wired antenna an excellent reception can be achieved. This antenna must be aligned in full to get the best reception. Use the small loop at the end of the wired antenna to fix this in the required position for a better reception.

## **Usage of headphones**

### **Using headphones may damage your hearing!**

Do not listen to the radio at high volume through headphones. This can lead to permanent hearing damage. Before using headphones adjust the sound volume to the minimum level if you (not supplied ) to connect a pair of headphones, the internal speaker is muted.

>Use only headphones with 3.5mm stereo plug.

>Plug the headphones into the headphone jack (page 5 # 6 ) of the device. The sound reproduction is now done exclusively through the headphones.

> If you want to listen through the speakers again, unplug the headphones from the headphone jack of the device.

## Switching the device on/off

> You turn the device turn on or off by pressing volume / standby ( 3).

## Initial use

When you use the device for the first time, as well as after calling the factory setting and switching on again, the channel search for DAB radio stations starts automatically. During scanning, the display shows the progress of information and the number of radio stations found.



After completion of the station search, the first station is displayed in alphanumeric order and played back automatically.

### Note :

If no stations are found, no signal could be received. In this case change the location of the device and / or the position of the wire antenna and run the scan channels again.

## Volume adjustment

> Rotate to adjust volume on / standby ( 3) the desired volume.

- clockwise -> louder

- counterclockwise -> lower

## Set display brightness

> Select by pressing the snooze / dimmer button (7), the desired display brightness (off, dim or bright) from. During the standby you adjust the brightness with the unit shut and the radio is operating at power on.

## Select DAB-/FM-Operation

> Turn on the dial **Mode / Menu (2)** to switch between DAB mode and FM mode. During the change from one mode to the newly selected mode will appear below the big time.





After changing only the small DAB or the FM logo is displayed right next to the time.

## DAB mode

### What is DAB?

DAB is a new digital format, through which you can hear crystal clear sound in CD quality. DAB Broadcast a high-speed data stream in the radio channel. In difference to conventional analog radio DAB transmits multiple channels on the same transmitter. This is called ensemble or multiplexes. An ensemble consists of the radio station as well as several service components or data services, which are sent individually by the radio stations. Learn e.g. under [www.digitalradio.de](http://www.digitalradio.de) or [www.digitalradio.ch](http://www.digitalradio.ch).

### Data compression

Digital radio uses the of advantages of human hearing. The human ear does not perceive sounds that are below a certain minimum level. Data which are under the so-called threshold in quiet can be filtered out. This is possible because in a digital data stream for each information unit, the corresponding relative volume is also saved for other units. In addition in a sound signal, the quieter portions are overlapped by the louder for a given threshold. All the sound information in a piece of music that are below the so-called hearing threshold can be filtered out of the signal to be transmitted. This leads to a reduction of the transmitted data stream, without any noticeable difference in sound to the listener ( MUSICAM ) process.

### Audio Stream

Audio streams are continuous data flows, MPEG 1 Audio Layer 2 frames contain and thus represent acoustic information in digital radio. Thus, familiar radio programs can be transferred and listen at the receiver side. For Digital radio the MUSICAM format is used, which provides two MPEG compliant PADs. This is referred to as PAD data services. Digital Radio brings you not only radio wit for additional data. The excellent

Digital radio does not only offer perfect sound quality but also additional information. This may relate to the current program (e.g. title, artist) or might be independent (e.g., news, weather, traffic tips).

## Automatic Search

As described in the initial installation the unit restarts automatically at the first start to search for DAB programs. This automatic search can also be restarted manually without having to revert to the factory setting.

- >To open the menu, press **Mode / Menu (2)**.
- >**Turn Tune / Select (4)** until you have reached the menu point **Full Scan**.



- >Now press Tune/ **Select (4)** to start the search.



After completion of the station search the last played radio station will be played.

## Channel sequence

- >Open the menu by pressing the **Mode / Menu (2)**.
- >Turn **Tune / Select (4)** until you have reached the point **Channel sequence**.



- >Press Tune/ **select (4)**.
- >Select the desired criteria ( **Alphanumeric or ensemble**) corresponding to which the channel list will be sorted.

## Select radio program

- > Rotate **Tune / Select (4)** until the desired radio station is displayed.
- > Press **Tune / Select (4)** to switch to the selected radio station.

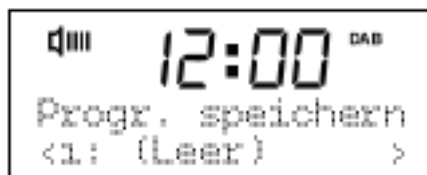


## Save Favorites

- > To open the menu, press **Mode / Menu (2)**.
- > Turn **Tune / Select (4)** until you have reached the point to **save Progr.**



- > Now press **Tune / select (4)**.



- > Choose a free or the desired favorite place by turning **Tune / Select (4)**
- > Confirm this by pressing **Tune / Select (4)**.

After saving a message appears on the display.

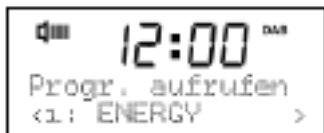


## Choose Favorites

- > To open the menu, press **Mode / Menu (2)**.
- > Turn **Tune / Select (4)** until you have reached the point **choose Progr..**



> Now press **Tune / Select (4)**.



> Select the desired favorite place by turning **Tune / Select (4)**.

> Start the playback of favorites by pressing **Tune / Select (4)**.

## DRC ( data compression)

The compression rate compensates varying dynamics and the associated volume variations.

> Open the menu by pressing the **Mode / Menu (2)**.

> Turn **Tune / Select (4)** until you have reached the point **DRC**.



> Press **Tune / Select (4)**.



> Select the desired DRC mode (off, low or high) - Rotate **Tune / Select (4)**.

**DRC High - High compression**

**DRC deep - low compression**

**DRC off - no compression**

> Confirm by pressing **Tune/ Select (4)**.

## Remove inactive channels

You can remove inactive / not available stations that appear in your channel list.

> To open the menu, press **Mode / Menu (2)**.

> Turn **Tune / Select (4)** until you have reached the point inactive stations.



>Now press **Tune/ Select (4)**.



>Select by rotating **Tune / Select (4)**:

- Yes, if you remove the transmitter
- No if you want to cancel.

>Confirm your selection by pressing **Tune/ Select (4)**.

## Display

>Open the menu by pressing the **Mode / Menu (2)**.

>Turn **Tune / Select (4)** until you have reached the point **display**.



>Press **Tune/ Select (4)**.

>Select by rotating **Tune / Select (4)** the display, which will be shown in the bottom line and press to confirm **Tune / Select (4)**.

- Signal strength - Signal strength
- Program type - PTY
- Ensemble - Ensemble, to which the radio belongs
- Frequency - Frequency at which the radio station is transmitted
- Signal quality - signal quality at
- Codec and bit rate - bit rate and encoding of the data transmission
- Date - the current date
- Scrolling text - text transmitted by the radio station, such as Title / Artist

## FM mode

### Automatic Tuning

>Press **Tune/ Select (4)** to search automatically for the next station and play.

Please refer to the setting in the point - **search settings**. Depending on the setting and reception quality at the site either stations may be skipped or very poorly reproduced. In this case try to align the wired antenna differently and/or change the search

setting.

## Manual Tuning

>Turn **Tune / Select (4)** until the frequency of the desired station appears.

After a moment, the station will be played and the channel and program information will appear in the display in case of transmission from the station.

## Save favorites

>To open the menu, press **Mode / Menu (2)**.

>Turn **Tune / Select (4)** you have reached the point to **save Progr.**



>Now press **Tune/ Select (4)**.



>Choose a free or the desired favorite place by turning **Tune / Select (4)**.

>Confirm this by pressing **Tune / Select (4)**.

After saving a message appears on the display.



## Call Favorites

>To open the menu, press **Mode / Menu (2)**.

>Turn **Tune / Select (4)** until you have reached the point **choose programs.**



>Now press **Tune/ Select (4)**.



- >Select the desired favorite place by turning **Tune / Select (4)**.
- >Start a playback of favorites by pressing **Tune / Select (4)**.

## Display

- >Open the menu by pressing the **Mode / Menu (2)**.
- >Turn until you have reached the point display **Tune / Select (4)**.



- >Press **Tune/ Select (4)**.
- >Select by rotating **Tune / Select (4)** the display, which will be shown in the bottom line and press Enter to confirm **Tune / Select (4)**.
  - Ps - Station name
  - Radio text - text transmitted by the radio station, such as Title / Artist
  - Program type - PTY
  - Date - the current date
  - Audio info - Stereo/Mono

## Scan Settings

- >To open the menu stereo / mono, press **Mode / Menu (2)**.
- >Turn **Tune / Select (4)** until you have reached the point scan setting.



- >Now press **Tune/ Select (4)**.



- >Rotate **Tune / Select (4)** for choosing whether the automatic channel selection should stop for each channel (**all channels**) or only for stations with strong signal level (**Only strong stations**).

Note, very poorly reproduced that occur depending on the setting, either transmitter or skipped that.

## Audio Setup

- >Open the menu by pressing the **Mode / Menu (2)**.
- >Turn **Tune / Select (4)** until you have reached the point audio setting.



>Now press Tune/ **Select (4)**.



>Rotate **Tune / Select (4)** to choose whether the sound should be played exclusively in mono ( mono only ) or, if available, also in stereo ( Stereo Audio ). If the sound is reproduced noisy, so the selection of mono only lead to a reduction of the noise.

## Sleep Timer

The sleep timer can set the rest time for shutdown of your device.

>Open the menu by pressing the **Mode / Menu (2)**.

>Turn **Tune / Select (4)** until you have reached the point of sleep.



>Now press Tune/ **Select (4)**.



>Rotate **Tune / Select (4)** to the desired length of time (15, 30, 45, 60 or 90 minutes), after which the device will turn off, or to adjust the function OFF.

>Confirm your selection by pressing Tune/ **Select (4)**.

In active sleep timer on the display the timer icon is displayed next to the time.



## Alarm Clock

### Configure Alarm clock

>Press and hold **Mode / Menu (2)** for about 3 seconds to go directly to the alarm setting.



Then proceed with selecting Alarm Clock.

Alternatively

>Open the menu by pressing the **Mode / Menu (2)** button.

>Turn **Tune / Select (4)** until you have reached the point alarm clock.



>Now press Tune/ **Select (4)**.



>Choose by rotating **Tune / Select (4)** the alarm clock, you like to enable or disable, create or edit.

>Confirm by pressing **Tune/ Select (4)**.

During configuration, the display flashes the symbol of current the alarm clock.



> Turn the alarm by turning **Tune / Select (4)** On or Off and confirm by pushing **Tune / Select (4)**.

If you are want to enable or disable an existing alarm push **Tune / Select (4)** until the Memory confirmation appears.

After activating the alarm, the hour of the start time flashes in the display.



> By turning **Tune / Select (4)** you set the time (hour) at which the device should switch on and and confirm by pushing **Tune / Select (4)**.

> By rotating **Tune / Select (4)** you set the time (min) at which the device should switch on and confirm by pushing **Tune / Select (4)**.



> By turning **Tune / Select (4)** you select the duration (15, 30, 45, 60 or 90mins) for which the Device will be turned on, if not switched of manually before and confirm by pushing **Tune / Select (4)**.



> By rotating **Tune / Select (4)** you can now select the source (Buzzer, DAB or FM), which should be reproduced after switching on the device and confirm this by pushing **Tune / Select (4)**.



> If you have chosen DAB or FM in the previous step, choose now the radio station by turning **Tune / Select (4)** which should be played out after switching on the device and confirm by pushing **Tune / Select (4)**.

Note that you can only choose those previously served as favorite or last one played.



> Now select by rotating **Tune / Select (4)**, if the alarm should be activate just once, daily, on weekdays or on the weekend and confirm by pushing **Tune / Select (4)**.

Note that in case of selecting Once the date (day, month, Year) at which the alarm should start must be chosen additionally by rotating **Tune/ Select (4)** confirm by pushing **Tune / Select (4)** to set.



> Set the volume by turning **Tune / Select (4)** which should be used for the alarm clock with for Wake-up time and confirm by pushing **Tune / Select (4)**.

In the display the message that the alarm is stored appears.



With an active alarm in the display you see the respective alarm icon next to the time displayed.



## Snooze current alarm

Does the alarm clock switch on to set selected time, you have the possibility to let it snooze for additional five minutes before it restarts.

> Push Snooze / Dimmer (7) to let the alarm clock snooze.



The screen now displays the time until the displayed the next time the alarm

## Switch running alarm clock off

> Push Volume **on / standby (3)**, to disable a running clock.

If you have programmed a repeat (Daily, Working days or weekends) alarm, starts this it will start again to the certain time set at the next day.

## Time

> Open the menu by pressing the **Mode / Menu (2)**.

> Turn **Tune / Select (4)** until you have reached the point of time.

> Now press Tune/ **Select (4)**.

## Set time / date manually

> Turn **Tune / Select (4)** until you have reached the point set time / date.



> Now press Tune/ **Select (4)**.

The hours will start to flash.

> Choose now by turning and pressing **Tune / Select (4)** the hour and minute of the current time and the date, month and year of the current date.

The message of saving the time appears in the display.

## Automatic update of time-/ date

> Turn **Tune / Select (4)** until you have reached the point Auto Update.



> Now press **Tune/ Select (4)**.



> Rotate **Tune / Select (4)** to whether the automatic update of time and date on all sources ( update all ), only on DAB stations ( Update from DAB ), only on FM stations (update from FM) or not ( No Update ) should take place, and confirm by pressing **Tune/ Select (4)**.

## Setting the Clock Format

> Rotate **Tune / Select (4)** up to the point set 12/24 hrs.



> Now press **Tune/ Select (4)**.



> Rotate **Tune / Select (4)** between the ( set 12 hours) 12 and the 24-hour format (24 hours ) to choose the one you prefer.

> Confirm by pressing **Tune/ Select (4)**.

## Setting the date format

> Rotate **Tune / Select (4)** until you have reached the point to set the date format.



>Now press **Tune/ Select (4)**.



>Rotate **Tune / Select (4)** to whether the date in the format ( DD-MM -YYYY ) or ( MM-DD -YYYY ) should be displayed.

>Confirm your selection by pressing **Tune/ Select (4)**.

## Language

>Open the menu by pressing the **Mode / Menu (2)**.

>Turn until you have reached the point **Language / Select (4)**.



>Now press **Tune/ Select (4)**.



>Rotate **Tune / Select (4)** to choose the desired operating language (German, English, Italiano, or Francais) out.

>Confirm by pressing **Tune/ Select (4)**.

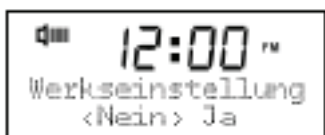
## Factory setting

>Open the menu by pressing the **Mode / Menu (2)**.

>Turn **Tune / Select (4)** until you have reached the point factory settings.



>Now press **Tune/ Select (4)**.



- > Rotate **Tune / Select (4)** to run the reset to factory setting ( Yes ) or to cancel (No).
- > Confirm by pressing **Tune/ Select (4)**.

When running the factory setting, the device restarts and is after that in standby mode.

- > Switch the device on by pressing **Volume / standby (3)** and then proceed as described under initial installation.

## Software version

- > Open the menu by pressing the **Mode / Menu (2)**.
- > Turn **Tune / Select (4)** until you have reached the point SW version.



- > Now press **Tune/ Select (4)**.



- > Leave the display by pressing **Mode / Menu (2)**.

## Specifications

- Frequency Range: DAB / DAB + 174.928 - 239.200MHz FM ( FM ) 87.5- 108MHz
- Audio output: 0.8 Wrms
- Power Supply Input: 100-240 VAC, 50 -60Hz
- Output: 6 V DC / 500 mA
- Dimensions : 175mm x 95mm x 85mm

## Notes

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

Subject to change for amendments and pushing errors Version 2013

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