Instruction Manual

TECHNIRADIO 2

DAB+/UKW/Internet radio

TechniSat

1. SAFETY

• For household and indoor use only.

• Place the appliance on a flat, stable surface with adequate ventilation and away from other sources of heat. Minimum distances around the appliance for adequate ventilation is 10cm. Do not cover or restrict ventilation openings.

• Keep the appliance and its cord out of reach of children less than 8 years.

• Do not allow children to use the appliance without supervision.

• This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children unless they are aged from 8 years and above and supervised.

• Fully unwind the cable before plugging in and ensure the cable is positioned away from areas where it is likely to get damaged or cause a trip hazard.

• The output cord of this mains adaptor cannot be replaced. In the event of damage to the cable, jack plug or adaptor, the entire adaptor unit should be replaced.

• Connections must only be made via the mains adaptor supplied, never connect the appliance directly to the 240v mains supply.

• Never use the adaptor supplied with any other appliance.

• The mains adaptor will become warm in use; do not cover or place on or near surfaces that could be affected by heat such as table tops and carpets.

• Remove mains adaptor from supply if appliance is unused for a long period of time, and during thunderstorms.

• Do not pull on the cable to disconnect from mains supply.

• Keep appliance, cable, mains adaptor plug dry and away from areas where it is likely to get splashed. Avoid using in hot, humid environments.

• Do not place items with naked flames or containers with liquids on this appliance.

• Switch off and unplug when not in use and before cleaning or servicing the appliance. Servicing of this appliance must only be carried out by a qualified electrician.

• Always ensure the mains adaptor plug is readily unpluggable – do not use with 'lockable' sockets or permanently wire to mains.

1. SAFETY (continued)

<table>
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⚠

The lightning flash with arrow-head symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

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⚠

The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

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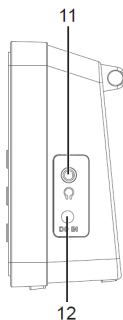**CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN

Warning: to reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside, refer servicing to qualified service personnel.
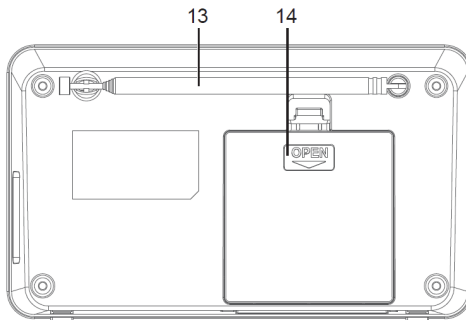
2. PARTS
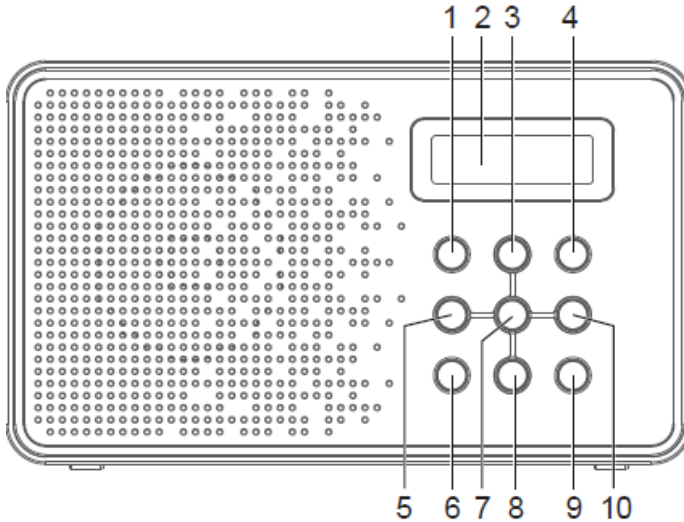
2.   PARTS (continued)

Side view

Rear view


1.   Standby / On (⏻) button
2.   Display
3.   TUN / CH (▲) button
4.   Menu button
5.   Volume – button
6.   FAV (Preset) button
7.   OK button
8.   TUN / CH (▼) button

9.   DAB/FM button
10.   Volume + button
11.   DC jack
12.   Headphone jack
13.   Antenna
14.   Battery compartment cover
15.   Adaptor (not shown)

3.   BATTERY INSTALLATION AND USE

To use the appliance with batteries ensure that the power cord is NOT connected to the mains and install the batteries into the battery compartment.

3.1   Slide off the battery compartment cover from the reverse of the radio.
3.2   Insert 4 x AA 1.5V alkaline batteries (not included) in accordance with the diagram in the battery compartment. Take care to observe the correct polarity (+/ -).
3.3   Refit the battery compartment cover.
3.4   Do not expose the batteries or the installed batteries to excessive heat (e.g. fire, sunshine or position close to radiators etc.).
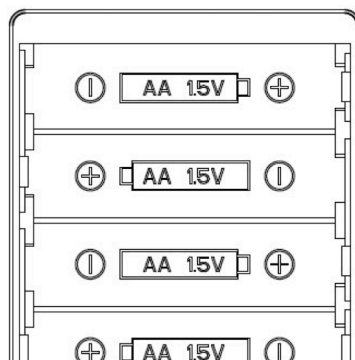
Notes:
*   All DAB radio's use more power during use than 'traditional' radios and so will run batteries down within a few hours. Therefore use of mains power (or rechargeable batteries) is recommended for extended listening.

5

BATTERY SAFETY AND DISPOSAL

- CAUTION – Danger of explosion if batteries are incorrectly fitted / replaced.
- Only use 'AA' 1.5V batteries in this appliance.
- Be sure to insert batteries correctly taking care to observe the correct polarity (+ and -).
- Use only batteries of the same or equivalent type as recommended.
- Batteries should be replaced by an adult.
- Do not recharge non-rechargeable batteries.
- Remove rechargeable batteries from appliance before recharging.
- Never mix old and new batteries (replace all batteries at the same time).
- Never try to dismantle batteries.
- Do not short-circuit the supply terminals.
- Always remove exhausted or dead batteries from the product.
- Remove batteries from the product before extended storage.
- Dispose of batteries responsibly at local authority household waste recycling facility.
- **DO NOT dispose of batteries in a fire as the batteries may explode.**

4. SETTING THE CLOCK

The clock in this radio is equipped to receive a radio frequency time signal.

4.1 Place the radio on a flat and stable surface.

4.2 Connect the adaptor lead into the socket at the side of the radio, plug in and switch on at the mains. The display backlight will illuminate for a few seconds, a welcome message (Fig.1) will appear in the display briefly and the clock (00:00:00) will flash in the display and a message 'time is not set' will appear underneath.

4.3 If a signal can be received in the area of operation after a short time the clock will automatically synchronise to the local time and then the unit will enter standby mode.

5.   GETTING STARTED

5.1   If using mains power, insert the adaptor cord into the power socket at the side of the radio.

5.2   Plug the adaptor into the mains supply socket the display will illuminate, a welcome message will be displayed briefly (Fig.1, then the clock (00:00:00) will be shown and a statement saying that the time is not set.

Fig. 1

5.3   If using the radio with batteries ensure that the power cord is NOT inserted into the back of the appliance and install the batteries into the battery compartment.

5.4   Fully extend the telescopic antenna.

5.5   Press the STANDBY / ON (⏻) button to turn the radio on and start to tune in.

5.6   DAB mode will automatically be selected and the radio will perform an autotune full scan. The display will then show 'scanning', together with a slide bar (Fig. 2) that indicates the progress of the scan and the number of stations found so far.

Fig. 2

5.7   When the scan is finished the radio will play the first alphanumerically found station. The display will show the station being listened to.

5.8   Press the TUN/CH (▲) or (▼) button to scroll through the located stations and then press the **OK** button to select the station.

5.9   Adjust the volume to the desired level using the VOLUME (+ or -) buttons.

5.10   To switch to FM radio, press the **DAB/FM** button and press the button again to return to DAB.

5.11   If the radio does not find any stations, 'No signal DAB' will be displayed. Ensure the antenna is fully extended or try moving the radio to another location (near a window may be better) and repeat the above steps.

5.12   To turn the radio off, press the STANDBY / ON (⏻) button. The display will dim but the clock will continue to be displayed. If using in battery mode the display will turn off to avoid flattening the batteries.

5.13   Once the desired switch off mode has been selected, press the STANDBY (⏻) button to confirm.

Note: The clock in this radio is equipped to receive a DAB radio frequency time signal or FM time signal with RDS and after turned on, it will automatically tune into a DAB radio station and update the clock. It may be necessary to wait for 1-2 minutes to allow the unit to receive the time signal.

6.   USING THE RADIO – DAB MODE

DAB differs from analogue radio; the separate signals from a number of stations are grouped together and transmitted as a single frequency. These groups are referred to as multiplexes and ensembles. Each time a group has been found the name of the group will be shown on the lower half of the display.

6.1   DAB MODE - AUTO SCAN

This function allows the radio to search automatically for DAB Band III channels. Press the MENU button to enter the tuning menu.

6.1.1 Press the TUN/CH (▲) or (▼) buttons until 'Full scan' is displayed (Fig.3). Press the **OK** button to confirm, the scan will be initiated and a slide bar will be shown in the display (Fig.2) to show the progress of the scan.
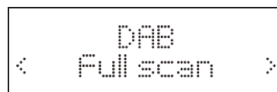
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      DAB
<   Full scan   >
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Fig. 3

6.1.2 When the scan is finished the radio will play the first alphanumerically found station.

6.1.3 To scroll through the stations that have been found, press the TUN/CH (▲) or (▼) buttons**.** Then press the **OK** button to listen to the station of choice.

6.2   DAB MODE – MANUAL TUNE

This function allows a specific or new ensemble to be manually added to the stations already available on the radio. Press the **MENU** button to enter the tuning menu.

6.2.1 Press the TUN/CH (▲) or (▼) buttons until 'Manual tune' is displayed (Fig. 4) and press the SELECT button to confirm.
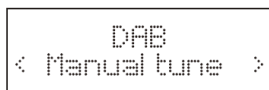
```
      DAB
< Manual tune  >
```
Fig. 4

```
  Manual tune
< 5A 174.928MHz >
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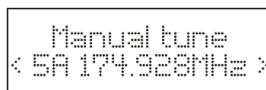**Fig. 5**

6.2.2 Press the TUN/CH (▲) or (▼) buttons to move through the DAB channels. When the desired ensemble / frequency appears in the lower half of the display (e.g. Fig.5) press the **OK** button to confirm and the name of the ensemble will be displayed.

6.2.3 Press the **OK** button again to add the ensemble. The radio will return to the station being listened to but the ensemble will be added to the stations stored.

6.3 DAB MODE – PRUNE

This function allows all unavailable stations to be removed from the station list. Press the **MENU** button to enter the tuning menu.

6.3.1 Press the TUN/CH (▲) or (▼) buttons until 'Prune' is displayed and then press the **OK** button to confirm.

6.3.2 Press the TUN/CH (▲) or (▼) buttons to select <yes> and then press the **OK** button to confirm and delete. If <no> is selected the operation will be cancelled.
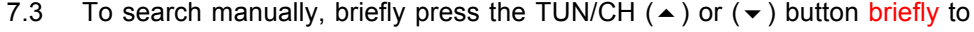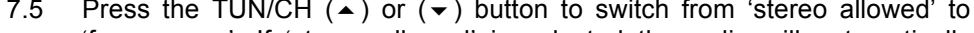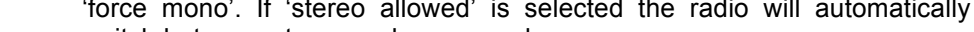
6.4 DAB MODE – SECONDARY SERVICES

Some stations include secondary services and when these are available a '>' symbol appears after the station name. To access this service press the SELECT button.
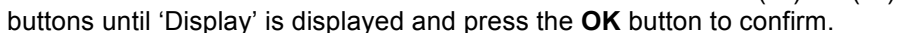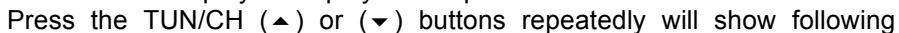
6.5 DAB RESET

Moving the radio to another location in the country the pre-tuned and stored stations may no longer be available and it will be necessary to reset the radio back to the factory settings.

6.5.1 Press the **MENU** button to enter the tuning menu.

6.5.2 Press the TUN/CH (▲) or (▼) buttons until 'System' is displayed and press the **OK** button to confirm.

6.5.3 Press the TUN/CH (▲) or (▼) buttons until 'Factory reset' is displayed and press the SELECT button to confirm.

6.5.4 Press the TUN/CH (▲) or (▼) buttons to highlight <yes> and then press **OK** button again and the reset will begin.

6.5.5 A 'full scan' will then start and the display will show a slow progressing slide bar.

6.5.6 When the scan is finished the radio will play the first alphanumerically found station. All stored programmed stations will be lost during reset.

7.   USING THE RADIO - FM MODE

7.1   Turn the radio on, press the STANDBY / ON (⏻) button and select the FM mode. The display will show 'FM' and the radio will automatically tune to 87.50 MHz.

7.2   To activate auto search, press **and hold** the TUN/CH (▲) button and the radio will start scanning up the frequency and stop automatically once the next station up has been found. To scan downwards, press and **hold** the TUN/CH (▼) button.

7.3   To search manually, briefly press the TUN/CH (▲) or (▼) button briefly to increment the frequency by 0.05MHz.

7.4   To change the audio mode (stereo or mono) press the **MENU** button to enter the **audio setting**.

7.5   Press the TUN/CH (▲) or (▼) button to switch from 'stereo allowed' to 'force mono'. If 'stereo allowed' is selected the radio will automatically switch between stereo and mono mode.

7.6   If an FM RDS (Radio Data Signal) is present, the display will automatically show the station name and radio text (where available).

8.   RADIO DISPLAY MODES

Press the **MENU** button to enter menu. Press the TUN/CH (▲) or (▼) buttons until 'Display' is displayed and press the **OK** button to confirm.
Press the TUN/CH (▲) or (▼) buttons repeatedly will show following information.

In DAB mode
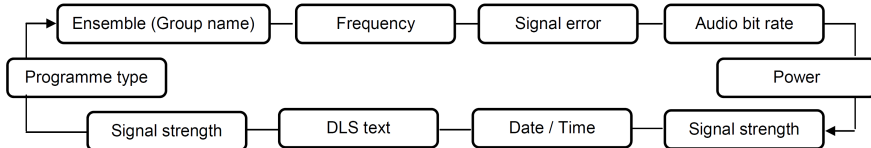
In FM mode
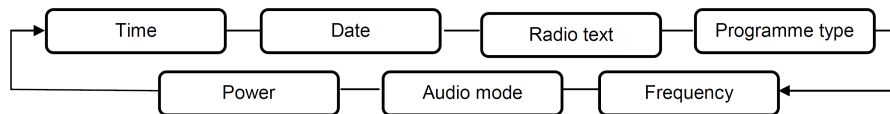
• Ensemble (Group name) - The ensemble is a group of station that are bundled and transmitted together in a single frequency. There are national and local multiplexes, local ones contain stations that are specific to the local area.

• Signal strength – the display will show a slide bar to indicate the strength of the signal. The stronger the signal, the longer the bar.

• Signal error – the display shows the stability and quality of the reception, 0=good.

- DLS (dynamic label segment) / Radio text - The broadcaster may include a scrolling message about the current programme.
- Programme type – this describes the style / genre of the programme. If the information is not available the display will show '<Programme type>'.
- Time - the time will be automatically updated by the radio time signal.
- Date - the date will be automatically updated by the radio time signal.
- Audio mode – the display will show if the station being received is stereo or mono.
- Channel number / frequency – the display will show the channel number / frequency of the station being broadcast.
- Audio bit rate – the display will show the digital audio bit rate being received.
- Power status – the display will show whether if the radio is being used on mains or battery. When in battery mode the display will show the battery capacity (21-100)

9.   PROGRAMMED STATION FUNCTION

This function allows up to 10 stations to be programmed into the memory and stored in the DAB and FM modes.

9.1   Follow the directions above to select a radio station.

9.2   Press **and hold** the **FAV (Preset)** button button until the display shows the flashing PRESET number (Fig. 9).

9.3   Press the TUN/CH (▲) or (▼) buttons to select the preset storage location of choice and then press the SELECT button to confirm. The station now broadcasting has now been stored in the selected location (Fig.10).

9.4   To store further stations, press and **hold** the **FAV (Preset)** button, and then press the TUN/CH (▲) or (▼) buttons repeatedly until an empty storage location is found. Press the SELECT button to store the station.

Preset Store <1: Empty >	Preset 1 Stored	Preset Recall <6: BBC Radio6>
Fig. 9	**Fig. 10**	**Fig. 11**

9.5   To listen to the preset stations, press the **FAV (Preset)** button once and then press the TUN/CH (▲) or (▼) button to scroll up or down the stored presets. When the storage location of choice is displayed, press the SELECT button to listen to the stored station. The preset location and station name will be displayed in the lower half of the display (Fig.11). If the preset has not been allocated 'Preset empty' will be shown in the display.

10   USING HEADPHONES (not included)

A stereo headphone jack has been provided so that the unit can be used without disturbing others. Plug in the headphones at the point marked '🎧' at the side of the radio and adjust the listening volume to your chosen level. Excessive sound pressure from earphones and headphones can cause hearing loss. The speaker will not operate when earphones are fitted.

11.   CARE AND MAINTENANCE

• Wipe external surfaces with a soft cloth. If the casing is very dirty, unplug from the mains supply and use a damp cloth soaked in a weak solution of washing up liquid and water. Allow to dry thoroughly before reusing.

12.   TROUBLESHOOTING GUIDE

Observation	Potential cause / solution
The unit does not work.	Has the adaptor lead been correctly plugged into the mains and the DC input jack at the side of the unit? Does the socket that is being used have power? Has the power lead been removed from the back of the unit without the batteries being installed?
The unit does not work on batteries	Has the adaptor lead been removed from the radio? Are the batteries inserted correctly? Are the batteries exhausted?
No sound	Is the volume control set at minimum? Are headphones fitted in the phones jack?
Radio reception noisy (FM)	Extend the antenna or adjust the position of the radio. FM stereo – if weak switch to MONO as this requires less signal strength.
Radio reception stutters / bubbling sounds (DAB)	Signal is weak. Extend the antenna or adjust the location of the radio. Positions higher up or nearer windows may improve reception.
DAB 'No signal DAB'	This normally means the signal is very weak, **not** that there is no signal. Try moving the radio to a different location and re-scanning. Check that your local area has DAB coverage on www.ukdigitalradio.com/coverage/postcodesearch/

13.   TECHNICAL SPECIFICATION

Rated voltage (transformer)   100 – 240V~ 50/60Hz, 0.3A
Transformer output   6V $\overline{---}$ 0.5A
Rated voltage (radio)   DC 6V (1.5V x 4 AA)
Power consumption   3W
Power consumption (standby) 0.4W
Class rating (transformer)   2

Audio output   1W RMS

Radio   DAB 174-240MHz
                             FM 87.5-108MHz

Operating conditions   Temperature: 5°C to 35°C
                             Humidity 5% to 90%
Operating position   Horizontal

$C \, C$

Transformer

III
Radio