

# User Manual

## TRAVELRADIO 310

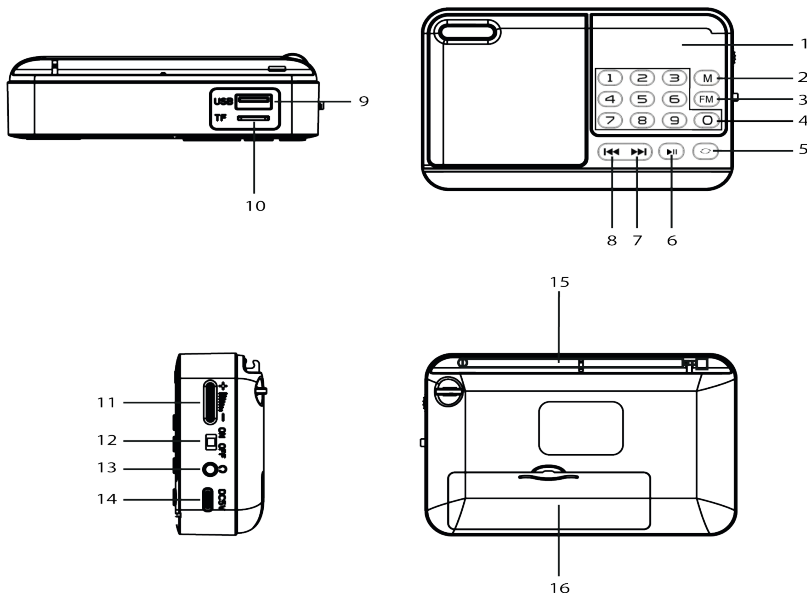
Portable FM radio with Bluetooth function



**TechniSat**

## 1 Photos

### 1.1 View of the device



- |                                   |                                      |
|-----------------------------------|--------------------------------------|
| <b>1.</b> Display                 | <b>9.</b> USB socket                 |
| <b>2.</b> M (BT/SD mode)          | <b>10.</b> microSD card slot         |
| <b>3.</b> FM (FM radio mode)      | <b>11.</b> volume knob (VOLUME +/-)  |
| <b>4.</b> Numeric buttons         | <b>12.</b> power ON/OFF              |
| <b>5.</b> Repeat mode             | <b>13.</b> 3.5mm headphone jack      |
| <b>6.</b> Play / Pause            | <b>14.</b> USB-C charging socket     |
| <b>7.</b> Next track / search     | <b>15.</b> telescopic antenna        |
| <b>8.</b> Previous track / search | <b>16.</b> Battery compartment cover |

## 2 Safety Tips

### 2.1 Foreword

#### Dear customers,

Thank you for choosing TechniSat brand radio.

These operating instructions are designed to help you become familiar with the features of your new device and use them optimally. They will help you use the radio safely and for its intended purpose. It is intended for any person who installs, operates, cleans or disposes of the device.

Keep the instruction manual in a safe place for future use.

## 22 Characters and symbols used

### In this manual:



Indicates a safety instruction that, if not followed, can cause serious injury or death. Observe the following signal words:

**DANGER** - Serious injury resulting in death.

**WARNING** - Severe personal injury that can lead to death.

**NOTE** - Injuries.



It indicates the caution to be observed to avoid device malfunctions, data loss/misuse or unintended operation. It also describes further functions of the device.



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

### On the device:



Indoor use - devices marked with this symbol  
Are only suitable for use indoors.



Your device is CE marked and meets all required EU standards.



This appliance has been designed and manufactured with high-quality materials and components that are recyclable. The symbol of the crossed-out wheeled waste container indicates that the product is subject to separate collection in accordance with Directive 2012/19/EU of the European Parliament and of the Council and in accordance with Directive 2006/66/EC of the European Parliament and of the Council, and informs that electrical and electronic equipment and batteries and accumulators, after their useful life, must not be disposed of with other household waste. The user is obliged to return it to the collector of waste electrical and electronic equipment and batteries and accumulators forming a system for the collection of such waste, including an appropriate store, local collection point or municipal unit. Waste equipment can have a harmful effect on the environment and human health due to its potential content of hazardous substances, mixtures and components. The household plays an important role in contributing to the reuse and recovery, including recycling, of waste equipment. At this stage, attitudes are formed that influence the preservation of the common good, which is a clean environment. Households are also one of the largest users of small equipment and rational management of this equipment influences the recovery of recyclable materials. In case of improper disposal of this product, penalties may be imposed in accordance with legislation

Domestic At the end of the product's life cycle should not be disposed of in the garbage of normal household waste, but at a collection point for used electrical and electronic equipment. This is indicated by the symbol on the product, user manual or packaging. Materials are recyclable according to the label. By reusing, recycling or otherwise recycling old equipment, you are making an important contribution to environmental protection.



Observe all safety instructions and recommendations in this manual. Keep this manual in a safe place for future reference.

## 23 Destination

TechniSat TRAVELRADIO 310 is designed to receive UKW radio broadcasts. The device is intended for private use and is not suitable for commercial purposes.

## 24 Safe handling of the product

Observe the following guidelines to minimize safety risks, avoid damage to the device, and contribute to environmental protection.

Read all safety instructions carefully and keep them for future reference. Always follow all warnings and instructions in this manual and on the back of the unit.



### **DANGER!**

Never open the device!

Touching live parts is life-threatening!



### **WARNING!**

Danger of suffocation! Do not leave packaging and its parts in the care of children. Danger of suffocation from foils and other packaging materials!



To ensure proper use of the device and to avoid damage to the device and personal injury, follow all of the following instructions.

- Do not repair the device yourself. Repairs should only be performed by trained professionals. Contact our customer service centers.
- The device may only be operated under the environmental conditions specified for it.
- Do not expose the device to dripping or splashing water. If water enters the device, turn it off and notify service.
- Do not expose the device to heat sources that heat the device in addition to normal use.

- In the event of a noticeable defect in the device, odor or smoke, significant defects or damage to the housing, contact service immediately.
- Operate the device only at the specified voltage. Never attempt to operate the device at any other voltage.
- If the device is damaged, do not operate it.
- Do not use the device near bathtubs, showers, swimming pools or flowing/splashing water. There is a risk of electric shock and/or equipment damage.
- Foreign objects, such as needles, coins, etc., must not fall into the device. Do not touch the connection contacts with metal objects or fingers. This may cause a short circuit.
- The device is not intended for use by persons (including children) with limited physical, sensory or mental abilities, or lack of experience and/or knowledge, unless they have received supervision or instructions on the use of the device from a person responsible for their safety.
- It is forbidden to make changes to the device.

## 241 Legal guidelines



TechniSat hereby declares that the TRAVELRADIO 310 radio device complies with Directive 2014/53/EU and RoHS. The full text of the EU Declaration of Conformity is available at the following web address:

<http://konf.tsat.de/?ID=30721>



TechniSat is not responsible for damage to the product caused by external influences, wear and tear or improper handling, unauthorized repairs, modifications or accidents.



Subject to changes and printing errors. Reproduction and duplication only with permission of the publisher. The latest version of the manual is available in PDF format in the download area of the TechniSat home page at [www.technisat.pl](http://www.technisat.pl).

## 242 Service tips



This product is quality tested and covered by the statutory warranty period of 24 months from the date of purchase. Please keep your invoice receipt as proof of purchase. In the event of warranty claims, the cost of shipping directly to the manufacturer will be paid by the customer.



In case of questions and information, or if you have a problem with this device, our technical hotline is available: Monday. - to Friday, from 8:00 am to 4:00 pm at +71 310 41 48.



The guarantor, within the scope of the granted warranty, undertakes to remove at its own expense any defects in the product. Removal of defects will be carried out by

Replacement of the defective product with a new, defect-free product or its repair.



In order to exercise the warranty, the purchaser must report the defective product to the point of sale where the product was purchased and deliver the defective product there. The product should be delivered complete.



The warranty does not cover product defects caused by the purchaser or resulting from:

- Using or installing the product in a manner inconsistent with the instructions for use,
- Improper storage or maintenance of the device,
- repairs or alterations of the product performed by unauthorized persons,
- ingress of fluids or foreign bodies,
- lightning and power line surges.



The provisions of the warranty do not exclude, limit or suspend the rights of purchasers (consumers) under generally applicable law (warranty).



Obtaining detailed information about the Product, including the rules and procedures of the warranty procedure, assigning an RMA number, is possible

By phone 71 310 41 48 or [emailserwis@technisat.com](mailto:emailserwis@technisat.com) , on business days, 8 am to 4 pm.

**ONLINE service requests: [www.serwis.technisat.com](http://www.serwis.technisat.com)**

### 3 Device description

#### 3.1 Contents of the device

Please verify that the following are included:

- 1 x TechniSat TRAVELRADIO 310
- 1 x User manual
- 1 x USB cable
- 1 x 1200mAh rechargeable battery

#### 3.2 Special features

The radio has the following special features:

- FM radio program reception.
- UKW reception range 87.5-108 MHz (analog).
- LCD display
- Bluetooth 5.3
- Music playback from microSD and USB cards
- 1W speaker
- Possible operation on batteries or DC 5V/1A power supply (no USB adapter included)

#### 3.3 Preparing the device for operation

##### 3.3.1 Telescopic antenna setup

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

- > Position the telescopic antenna **(15)** and pull it along.



Accurate positioning of the telescopic antenna is often important, especially in peripheral FM reception areas.



Start your first search at the window in the direction of the transmitter mast. In bad weather, reception may be limited.



Do not touch the telescopic antenna while the station is playing. This may lead to reception interference and sound fading.

### 3.3.2 Connection to power supply



#### **WARNING!**

Do not touch the USB power adapter with wet hands, risk of electric shock!



#### **NOTE!**

Arrange the power cord so that no one trips over it.

- > Please remove the device from the package. Please connect the USB cable to the USB-C port **(14)** of TRAVELRADIO 310, and then to the USB power adapter (it can be a DC/5V USB charger, DC/5V laptop USB socket).
- > Before connecting the device (USB power supply) to the wall outlet, make sure that the operating voltage of the USB power supply corresponds to the local voltage network.



USB 5V power supply is not included. Power parameters required for trouble-free operation: DC 5V/1A.




Pull the plug of the USB power adapter from the power outlet when not in use. Pull the plug (power adapter), not the cable. Unplug the device before a storm. Unplug the device if it will not be used for a long time, such as before a long trip. Heat generated during operation must be dissipated by proper air circulation.

Therefore, do not cover the device or place it in a closed cabinet. Provide a clear space around the device of at least 10 cm wide.

EN

## 3.4 General functions of the device

### 3.4.1 Switching on the device

- > To ensure good FM reception, please fully extend the telescopic antenna, which is located on the back of the unit.
  - > To start the device move the switch to the **ON** position **(12)**.
-  If the device will not be used for a long time, please unplug the TRAVELRADIO 310 from the power supply.

### 3.4.2 Turning off the device

- > To turn off the device, please move the switch to the **OFF** position **(12)**.



### 343 Volume control

- > Adjust the volume by moving the volume potentiometer on the device up or down.
  - **Volume +** - louder
  - **Volume -** - quieter


## 4 Bluetooth

In Bluetooth mode, you can listen to music from a connected smartphone or tablet through the TRAVELRADIO 310 speaker. To do this, the two devices must be paired together "paired."

### 41 Bluetooth mode selection

- > Please press the **M** (Mode) button **(2)** to switch the device to Bluetooth **[bBLUE]** mode. A confirmation tone will sound after startup.
-  When you first start up, you must first pair the external device (smartphone / tablet).
-  If the radio has already been paired with another device that is in range, the connection will be established automatically.

### 42 Pairing with an external device

- > Select the Bluetooth mode as described in Section 4.1 **[bBLUE]** flashes on the display if no device has yet been paired with the TRAVELRADIO 310.
-  Follow the external device's instruction manual for the pairing process with other devices.
- > Open a Bluetooth search on your external device for other devices.
  - > Select **TRAVELRADIO 310** in the list of found devices by touching it.
  - > The TRAVELRADIO 310 speaker will sound a confirmation tone if the connection was successful.
  - > Start playing music on an external device.
  - > In the case of compatible Bluetooth devices, control can also be performed on the TRAVELRADIO 310. The following options are available:
- Playback: button ▶ || **(6)**
  - Pause (during playback): button ▶ || **(6)**
  - Next title: button: ▶ ▶ | **(7)**
  - Previous title: 2 x button| ◀ ◀ **(8)**
  - Current title from the beginning: button | ◀ ◀ **(8)**
  - Forward: hold down button ▶ ▶ | **(7)**
  - Rewind: hold down button | ◀ ◀ **(8)**

## 5 Play audio files from microSD card and USB connection


MP3 tracks stored on a microSD card or USB media, can be played on the TRAVELRADIO 310. Insert the media into the USB slot **(9)** or the card into the microSD card slot **(10)** of the TRAVELRADIO 310.

Use the playback buttons **▶ || (6)**, **|◀◀ (8)** and **▶▶| (7)** to control playback from a USB source.



The display shows the song number and, during playback, the time Playback.

- Playback: **▶ || (6)**
- Pause (during playback): **▶ || (6)**
- Next title: button: **▶▶| (7)**
- Previous title: **x** button **|◀◀ (8)**
- Forward: hold down button **▶▶| (7)**
- Rewind: hold down button **|◀◀ (8)**

In addition, a repeat mode is available. To select the repeat modes, briefly press the  button **(5)** several times. The display will show the selected repeat mode.

**[ONE]:** Repeats one song.

**[ALL]:** Repeats all songs on the disc or media.

EN

## 6 FM reception

- > To ensure good FM reception, please completely remove the wire antenna, which is located on the back of the unit.
- > Please press the **FM** button **(3)**. The radio is in FM playback mode.

### 6.1 Manual tuning

- > Using the numeric buttons, we can enter the desired frequency.  
For example, to set the frequency of 93.6Mhz we press the **0, 9, 3, 6** buttons in sequence.
- > Longer holding down the **|◀◀ (8)** or **▶▶| (7)** buttons will trigger a manual scan. If reception of a strong station appears during scanning, Scanning will stop at the current frequency.



If the reception is too weak and there is noise on the received station, try to improve the reception by changing the position of the telescopic antenna.







For maximum FM tuner reception, fully extend the wire antenna for best FM radio reception.


### 6.2 Automatic tuning

- > To start an automatic search for radio programs

Please press and hold the **FM** button **(3)** for 2 seconds.

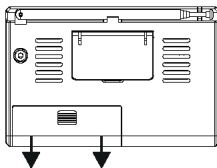
- > The device automatically searches for and stores radio stations. While scanning, the display shows the number of radio stations found.
-  The device uses the AUTO SEARCH function during the automatic search, which automatically saves the first 50 strong FM stations found to the favorites list. The first strong radio stations found will be saved in presets, starting with 1 and ending with 50.
-  Once the scan is complete, the found programs will be assigned to the favorites list (P01-P50).
-  For best FM reception, extend the telescopic antenna fully. Avoid proximity to speakers or other electrical devices.
-  To save a new list of favorites, run the scan again. The new scan will overwrite the previous list.

### 6.3 Calling a stored program

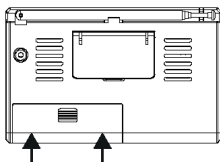
- > Previously saved stations can be recalled by pressing the buttons one at a time **◀ ◀ (8)** or **▶ ▶ || (7)** going to the corresponding program number (P01 - P50).
-  The number of programs available in the favorites list depends on the quality of reception.


## 7 Battery installation

- > Turn the device so that you can open the battery compartment at the back.



- > Carefully lever up and lift the battery compartment cover.
- > When inserting a rechargeable battery (1 x 18650, 3.7V), please pay attention to the correct polarity.
- > Carefully close the battery compartment cover again so that the cover retaining lugs go into the case.



-  Mounting a rechargeable battery (1 x 18650, 3.7V) will ensure the radio's operation without an external USB power supply.



If the radio is powered by batteries and power is connected via a USB cable, the device will switch to power from the charger. There is no need to disconnect the batteries.



Please use batteries of the same type.



Do not mix new batteries with old batteries. Replace



the waning battery in a timely manner.



Leaking batteries can cause damage to the radio.



If the device will not be used for a long time, remove the batteries from the battery compartment.



Important note on disposal: Batteries may contain toxic substances that are harmful to the environment. Therefore, it is imperative to dispose of batteries in accordance with applicable laws and regulations. Never dispose of batteries in normal household waste



Make sure the batteries/batteries are not in the hands of children. Children could put the batteries in their mouths and swallow them. This can cause serious damage to health. If this happens, c o n s u l t a doctor immediately!



Keep batteries/batteries out of reach of young children.



The device can only be powered by batteries/batteries approved for use in this device.



Normal batteries cannot be recharged. Batteries must not be reactivated by other means, disassembled, heated or thrown into an open flame (danger of explosion!).



Before inserting, clean the battery contacts and the device contacts. Incorrect insertion of batteries/batteries risks explosion!



Replace batteries/batteries only with batteries of the correct type and model number.



Caution! Do not expose the battery to extreme conditions.



Do not place on radiators, do not expose to direct sunlight!



Leakage or damage to batteries/batteries may cause burns on skin contact. In this case, use appropriate protective gloves. Clean the battery compartment with a dry cloth.



If the device is not used for a long time, remove the batteries.



Improper handling of batteries/batteries risks explosion!

## 8 Headphone output

### Hearing damage!

Do not listen to the radio at high volume through headphones. This may cause permanent damage to your hearing. Before using headphones, set the volume of the device to minimum.



Use only headphones with a 3.5-millimeter plug.

- > Insert the headphone plug into the headphone jack of the device. Sound is now played only through the headphones, the speaker is muted.
- > If you want to listen through the speakers again, remove the headphone plug from the device's headphone jack.



By default, the sound from the headphone output is monophonic.

## 9 Cleaning



To avoid damage to the device or electric shock, do not clean the device with a wet cloth or under running water. Before cleaning, pull out the mains plug and switch off the device!



Do not use any of the following: Salt water, insecticides, solvents containing chlorine or acid (sal ammoniacal).



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

## 10 Charging the device

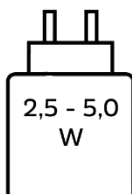
Connect the device via the supplied cable to the USB-A port on your computer or USB-A charger (not included).

When connected for charging, the display will show a symbol indicating charging. When fully charged, the symbol will disappear from the display.

After charging, the USB cable should be disconnected from the device.

### 10.1 Charging parameters

The minimum power required to charge the device is 2.5W (5V/500mA). The power to guarantee maximum charging speed is 5W (5V/1000mA).



## 11 Factory settings

- > In order to restore the factory settings (delete the program list), please disconnect the power supply from the radio. If batteries are connected, remove them as well.

## 12 Troubleshooting

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

Symptom	Possible cause
The device does not turn on.	The device is not powered.
There is no sound.	Turn up the volume.
FM reception is poor	Remove the antenna completely. Change the position of the antenna or the device itself
The device is not working, the device has crashed.	Disconnect the device from the power supply and reconnect the device to the power supply.
Noises can be heard.	There is a cell phone or other device emits interfering radio waves in the vicinity of the device. Remove the cell phone or device from the vicinity of the radio.

EN

## 13 Technical data

Sources of reception	FM, Bluetooth, USB, SD
Power supply	DC 5V / 1A (no power adapter included)
Battery	1 x 18650, 3.7V (1200mAh)
Frequency	UKF: 87.5 - 108 MHz Bluetooth: 2402 - 2480MHz, max power: 6dBm
Power consumption	During operation max: 1.5-2W
Output power	1 W RMS
USB, microSD	max. 64 GB (FAT, FAT32)
Ambient humidity	During operation: 30-80%
Ambient temperature	During operation: 0~ 35 °C
Headphone output	3.5 mm jack
Weight (kg)	130g
Dimensions (W x H x D) cm	11.0 x 6.8 x 2.8 cm

#### 14 Chemical composition of the battery

Chemical name	CAS number	Concentration range %
Lithium manganate	12057-17-9	30-34
Lithium hexafluorophosphate	21324-40-3	13-18
Graphite	24937-79-9	12,9-17,8
Steel housing	/	20-25
Copper	7440-50-8	4-6
Aluminum	7429-90-5	2-4
Polypropylene	9003-07-0	0,3-0,5
Acetylene carbon black	1333-86-4	0,1-0,2

#### 13 Manufacturer

TechniSat Digital Sp. z o.o.  
Poznańska 2 Street,  
Siemianice 55-120 Oborniki  
Śląskie  
biuro@technisat.com  
+48 71 310 40 00