

User manual

STEREOMAN DAB+ OD

Stereo DAB+/FM hearing protection headphones with Bluetooth for outdoor use












TechniSat

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2 Safety instructions

Signs and symbols

-  Indicates a safety instruction; failure to observe this may result in serious injuries or death. Pay attention to the following signal words:
- DANGER** - Serious injury or death
 - WARNING** – Serious injury, possibly fatal
 - CAUTION** - Injury
-  Indicates a note that you must observe to ensure correct use, to prevent device faults, data loss or misuse, or unintended operation. It also describes additional functions of your device.
-  Indoor use - Devices bearing this symbol are only suitable for indoor use.
-  Protection Class II - Protection Class II electrical appliances are electrical appliances that have continuous double and/or reinforced insulation and no connection points for a protective earth conductor. The housing of a Protection Class II electrical appliance enclosed in insulating material may form part or all of the additional or reinforced insulation.
-  Your device bears the CE mark and complies with all relevant EU standards.
-  Electronic devices/batteries do not belong in household waste but must be disposed of properly in accordance with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment. Please take this appliance to the designated public collection points for disposal at the end of its useful life. Batteries must be removed from the appliance before disposal and disposed of separately from the appliance.
-  Observe all instructions and safety precautions in this user manual. Keep the user manual in a safe place for future reference. Pass the user manual on to the buyer if you sell the product.
-  DC symbol. This device is powered by direct current and/or converts alternating current to direct current.
-  Energy efficiency of external power supplies (DoE Level).

21 Intended use

The STEREO MAN DAB+ OD is a reusable, over-ear hearing protection headphone (earmuff-type hearing protection in accordance with EN 352-1:2020). The headphones are designed for the playback of digital and analogue audio and radio signals. The device must only be operated with the accessories supplied (batteries, cables, antenna, etc.). Any other use of these accessories is not permitted. Any other use is considered improper.

22 The target audience for this user manual

This user manual is intended for anyone who operates, uses, cleans or disposes of the appliance.

Please read the user manual and all

safety instructions carefully and keep them in a safe place for future reference. Always follow all warnings and instructions in this user manual and on the back of the appliance.

23 Safe handling of the device

Please observe the instructions listed below to minimise safety risks, prevent damage to the device and help protect the environment.



WARNING!

Never open the device or the power supply unit!

Touching live parts is life-threatening!



Please observe all the following instructions for the intended use of the device and to prevent device faults and personal injury.

- Do not attempt to repair the device yourself. Repairs must only be carried out by trained specialist personnel. Please contact our customer service department.
- The device must only be operated under the specified environmental conditions.
- Do not expose the device to dripping or splashing water. If water has entered the device, disconnect the battery and contact the service department
- In the event of a noticeable fault, the development of odours or smoke, significant malfunctions, or damage to the casing, contact the service department immediately.
- The device must only be operated with the power supply specified on the type plate. Never attempt to operate the device with a different voltage. Use only suitable USB power adapters.
- As this device is disconnected from the mains by unplugging the power supply unit/mains plug, it is essential that this is easily accessible at all times.
- If the device is damaged, it must not be put into operation.
- Do not use the appliance near baths, showers, swimming pools or running/splashing water. There is a risk of electric shock and/or damage to the appliance.

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and/or knowledge, unless they are supervised by a person responsible for their safety or have been given instructions on how to use the appliance. Never allow children to use this appliance without supervision.
- Keep films and small parts away from children. Choking hazard!
- It is prohibited to make any modifications to the device.
- Check the earpad cushions for damage before each use and replace them if necessary.

Safety instructions for hearing protection

- These ear muffs are designed to protect the wearer from hazardous noise.
- Loud music can cause hearing damage.
- Avoid working in a noisy environment for prolonged periods.
- Wear hearing protection when working in a noisy workplace.
- Acoustic warning and notification signals, as well as ambient noise, may sound different when wearing hearing protection.
- The perception of warning signals in certain workplaces may be impaired by the use of a sound reproduction system.
- Optimal performance is achieved when the hearing protection is fitted, adjusted and maintained in accordance with the manufacturer's instructions.
- It is important to always wear hearing protection in noisy environments to avoid the risk of hearing damage.
- Check the hearing protection regularly to ensure it is working properly.
- Failure to follow the advice under 'Adjusting the fit' will significantly reduce the protection provided by the hearing protection.
- The headband and ear pads are not replaceable; therefore, do not tear them off, as this would damage the headset.
- Failure to follow these instructions or incorrect use of the hearing protection may result in damage and/or injury.

Safety instructions relating to rechargeable batteries WARNING!



The device is equipped with a modern, high-performance battery that complies with all safety requirements. Due to the higher potential risk associated with modern batteries, please take particular care when handling the device and the battery, and observe the following safety instructions.

- Where possible, charge your device in a location equipped with a smoke or fire alarm.
- Ensure that there are no flammable materials or objects in the immediate vicinity whilst charging.

- Do not use the device outdoors, in damp rooms or in places where very high temperatures are likely.
- Do not expose the device to heat sources that cause it to heat up beyond normal use. The device must only be operated under the specified environmental conditions.



Important note on the disposal of batteries/rechargeable batteries: Batteries/rechargeable batteries must be disposed of separately from the device and may contain hazardous substances that are harmful to the environment. Please refer to the technical data or the label on the battery/rechargeable battery for the chemical composition.

You must therefore dispose of batteries/rechargeable batteries in accordance with the applicable legal regulations. Never dispose of batteries/rechargeable batteries in normal household waste. You can dispose of used batteries/rechargeable batteries free of charge at your specialist retailer or at designated collection points.

For products with a battery compartment, you can remove the battery directly. If batteries are permanently installed, do not attempt to remove them yourself under any circumstances. In this case, contact appropriate qualified personnel, e.g. at a waste disposal company.

3 Legal notices



TechniSat hereby declares that the radio equipment type and hearing protection STEREO MAN DAB+ OD complies with Directives 2014/53/EU and 2016/425/EU. The full text of the EU Declaration of Conformity is available at the following web address:

[hGp://konf.tsat.de/?ID=23954](https://konf.tsat.de/?ID=23954)



This product has been tested in accordance with the harmonised European standards and meets the safety requirements of the following regulations:

EN 352-1: 2020, EN 352-6: 2020, EN 352-8: 2020

Harmonised standards: EN 301 489-1 V.2.1.1: 2017, EN 301 489-17 V3.1.1: 2017, EN 300 328 V2.1.1: 2016, EN 62479:2010, EN 55032: 2015, EN 55020: 2007 + A11: 2011+A12: 2016, Final Draft EN 303345 V1.1.7: 2017, EN 60065:2014

C €1947

Certification & Surveillance Body:

NB1974, PZT GmbH, Bismarckstraße 264 B, D - 26389 Wilhelmshaven, Germany



TechniSat shall not be held liable for damage to the product caused by external influences, wear and tear, improper handling, unauthorised repairs, modifications or accidents.



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Julius-Saxler-Straße 3 D-
54550 Daun
www.technisat.de

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Images shown are for illustrative purposes only and may differ from the actual product.

3.1 Service information



This product has been quality-tested and comes with the statutory warranty period of 24 months from the date of purchase. Please retain your receipt as proof of purchase. In the event of warranty claims, please contact the retailer from whom you purchased the product.



For questions and information, or if you encounter a problem with this device, please contact our technical hotline:

Mon–Fri 8.00 am–6.00 pm on tel.:
03925/9220 1800.



Repair requests can also be made directly online
at www.technisat.de/reparatur.

If you need to send in your device, please use only the following address:

TechniSat Digital GmbH
Service Centre
Nordstr. 4a 39418
Staßfurt

4 Disposal instructions

This product can be used for 2–3 years, unless the headband/ear pads or the headset are damaged.

The packaging for your device consists exclusively of recyclable materials. Please return these to the “Dual System” after sorting them appropriately. The materials are recyclable in accordance with their labelling. By reusing, recycling or otherwise disposing of old devices, you are making an important contribution to protecting our environment.



Please contact your local council to find out which disposal centre is responsible. Ensure that empty batteries and electronic waste do not end up in household waste, but are disposed of properly (return to specialist retailers, hazardous waste).



Disposal of packaging:

Your new device was protected by the packaging during transit to you. All materials used are environmentally friendly and recyclable.

Please help us and dispose of the packaging in an environmentally friendly manner. For information on current disposal methods, please contact your retailer or your local waste management authority.



Risk of suffocation! Keep packaging and its parts out of the reach of children.
Risk of suffocation from plastic film and other packaging materials.



Disposal of the appliance:

Old appliances are not worthless waste. Valuable raw materials can be recovered through environmentally sound disposal. Please enquire at your local council or municipal authority about options for the environmentally sound and proper disposal of the appliance.



This appliance is marked in accordance with Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). At the end of its service life, it must not be disposed of with normal household waste,

but must be taken to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, the user manual or the packaging indicates this. The materials are recyclable in accordance with their labelling. By reusing, recycling or otherwise recovering waste equipment, you are making an important contribution to protecting our environment. Batteries must be removed before disposal and disposed of separately.



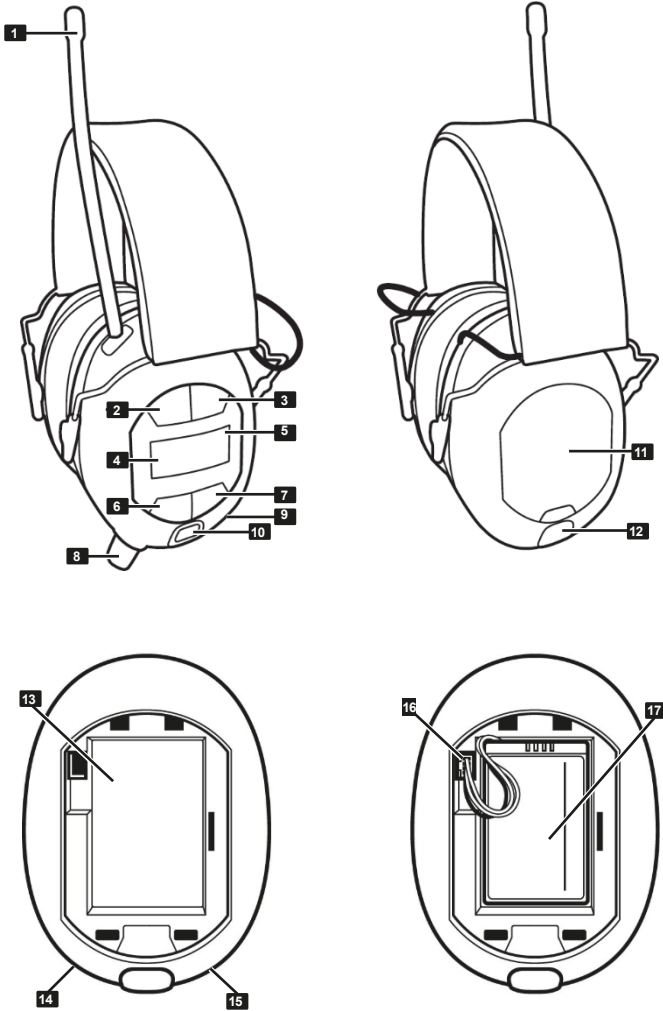
We would like to remind you to take responsibility for deleting any personal data that may be stored on the device before disposing of it.


5 Device overview

5.1 Contents of the package

Please check that the contents of the package are complete before use: 1x STEREO MAN
DAB+ OD
1x Cushion M/L
1x USB charging cable
1x battery (built-in)

5.2 Device description



1	DAB+/FM antenna	13	Battery compartment
2	Tune -	14	Microphone
3	Tune +	15	Charging port: DC-IN 5V/1A
4	Display	16	Battery connection
5	Battery charge level	17	Battery
6	Menu/ 		
7	Enter/Bass		
8	On/Off/Volume		
9	AUX-IN (3.5 mm jack)		
10	Mode (source selection)		
11	Battery compartment cover		
12	Charging LED (red = charging)		

5.3 Getting started

- > Before using the device for the first time, fully charge the built-in battery. Plug the USB connector (USB-A) of **the USB charging cable** into a standard USB power supply with 5 V, 1 A charging current (not included). Plug the other end of the USB charging cable (MicroUSB) into the **charging port (15)**. The charging LED (**12**) lights up **red** when the battery is charging. The charging LED goes out when the battery is fully charged.



You can also use the USB charging cable with a USB port that provides less power, e.g. on a PC. In this case, the charging time will be longer.

5.4 Put on the ear cups

- > Put on the STEREOMAN DAB+ OD ear defenders. Adjust the headband to ensure a comfortable fit. Make sure the ear defenders are correctly positioned (right/left). The ear cups are marked 'R' and 'L' for this purpose. The hearing protection headphones should fit snugly against your head. Please refer to the 'Instructions for use as hearing protection' on page 17.

5.5 Switching the headset on/off

- > Switch on the headband by turning the **On/Off/Volume** control dial (**8**) on the headband to the right. **[TechniSat]** appears briefly on the display.
- > Put the headphones on and adjust them for maximum comfort. To do this, you can pull the ear cups out of the headband.



Warning!

Listening at high volumes can lead to hearing loss!

To avoid damage to your hearing, avoid listening at high volumes for long periods.

- > The volume can be adjusted by turning the **On/Off/Volume** control knob (**8**). Turn to the right to increase the volume; turn to the left to decrease it.
- > To switch off the headphones, turn the **On/Off/Volume** control dial (**8**) on the headphones to the left until the display switches off.



6 Operation



Please fully charge the batteries before using the device for the first time.

- > After switching on for the first time, a complete DAB+ scan is performed automatically. The first station in the station list is then played.

6.2 Notes on the device menu

Some functions and options can be controlled and set via the device menu (main menu). Press and hold the Menu  (6) button until the first option appears on the bottom line of the display. Use the **TUNE +/- (2,3)** buttons to navigate through the options. Press the **Enter/Bass (7)** button to select an option or save settings. To cancel a setting or exit the menu, press the M e n u /  button again.



Buttons to be pressed are shown in **bold** in this user manual, menu items or display messages in **[square brackets]**, and operating instructions with an arrow **>**.

6.3 Important information on use



Only use the battery supplied with the unit. Only use the battery for the STEREO MAN DAB+ OD.



Switch the player off when not in use.



CAUTION!

Never expose batteries to heat sources such as direct sunlight, fire or similar.

Do not use any other type of battery or non-rechargeable batteries to replace the supplied battery. Only original batteries approved for the device may be used.

Please note:

- The quality of radio reception may be affected depending on the environment.
- To avoid damaging the headphones/ear protectors and the radio function, please do not handle them roughly.
- The ear protector is equipped with a communication device for entertainment purposes.
- This hearing protector is equipped with an entertainment function and an electrical audio input. The wearer should check that it is working correctly before use. If distortion or interference is detected, the wearer should follow the manufacturer's advice.
- The wearer should check that it is working correctly before use. If distortion or failure is detected, the wearer should follow the manufacturer's instructions regarding maintenance and battery replacement.



WARNING!

- The typical duration of continuous use of the hearing protection is approximately 12 hours.
- The output of the electrical audio circuit in this hearing protection may exceed the permissible daily noise level.
- The ear muffs provide a safety-relevant audio input and an entertainment function.
- The ear muffs limit the audio signal sound pressure level, and the ear muffs effectively limit the audio signal to 82 dB(A) at the ear.
- The audibility of warning signals in certain workplaces may be impaired whilst using the entertainment system.
- The product must not be used if it cannot be ensured that the power supply does not exceed the maximum value.

Storage

- Do not store the ear defenders at temperatures above +55 °C, e.g. on a dashboard or windowsill. Do not store the ear defenders at temperatures below -20 °C. Warm the ear defenders up in extremely cold conditions before use.

7 DAB+ digital radio

You can receive and play digital radio stations via DAB+ with the STEREO MAN DAB+ OD.

- > Switch on the STEREO MAN DAB+ OD.
- > Press the **MODE** button several times until **[DAB+]** appears on the display.


7.1 Perform a full scan



The automatic scan scans all DAB+ Band III channels and thus finds all stations broadcast in the reception area.



Once the scan is complete, the first station in the station list will be played.

- > Open the main menu by holding down the Menu/  button. Use the **TUNE+/-** buttons to select **[Auto Search]** and press the **Enter/Bass** button.
- > **[Full scan]** appears on the display.



During the search, a progress bar and the number of stations found are displayed.

7.2 Manual station search

- > Open the main menu by holding down the Menu/▶| button. Use the **TUNE+/-** buttons to select **[Man. Tuning]** and press the **Enter/Bass** button.
- > Use the **TUNE+/-** buttons to select a channel (5A to 13F). If a DAB+ station is received on a channel, the station's ensemble name is displayed. Press the **Enter/Bass** button to exit the search.

7.3 Selecting a station

- > Press the **TUNE+/-** buttons to switch between the available stations in the station list. Hold down the **Enter/Bass** button to switch the bass boost on or off. When the function is active, **[BASS]** is shown on the display.

7.4 Saving DAB+ stations to a favourite memory slot



The favourites memory can store up to 10 radio stations.

- > First select the desired station (see section 7.3).
- > **Open** the main menu by holding down the Menu/▶| button. Use the **TUNE+/-** buttons to select **[Favourite]** and press the **Enter/Bass** button.
- > Use the **TUNE+/-** buttons to select a favourite memory slot 1...10 and press the **Enter/Bass** button to save the station.
- > Repeat this process to save further stations.

7.5 Recalling a DAB+ station from a favourite memory slot

To play a radio station that you have previously saved to a favourite memory slot, proceed as follows:

- > Open the main menu by holding down the Menu/▶| button. Use the **TUNE+/-** buttons to select **[Call up favourite]** and press the **Enter/Bass** button.
- > Use the **TUNE+/-** buttons to select a favourite preset (1–10) and press the **Enter/Bass** button to tune in to the station.



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


7.6 Overwriting/deleting a preset


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




When the factory settings are recalled, all preset memories are deleted.

7.7 Signal strength

> Briefly press the Menu  button several times during normal playback of a radio station until the signal strength bar is displayed. The marker indicates the minimum signal strength.


 Stations whose signal strength is below the required minimum signal strength do not transmit a strong enough signal.

> Press the Menu  button briefly several times again to display further information about the current station (depending on the station).


8 FM (UKW) mode

8.1 Switch on FM radio mode

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

 When switched on for the first time, the frequency is set to 87.50 MHz.

 If you have already tuned into or saved a station, the radio will play the last station you tuned into.


 For RDS stations, the station name is displayed.

8.2 FM reception with RDS information

RDS is a system for transmitting additional information via FM stations. Stations with RDS broadcast, for example, their station name or the programme type. This is shown on the display. The unit can display the RDS information **RT** (Radio Text), **PS** (Station Name) and **PTY** (Programme Type).

8.3 Automatic station search

> Press and hold the **TUNE+/-** buttons (for 2 to 3 seconds) to automatically search for the next station with a strong enough signal.

 If an FM station with a sufficiently strong signal is found, the search stops and the station is played. If an RDS station is received, the station name and, where applicable, the radio text appear.

 To tune in to weaker stations, use the manual station search.

8.4 Manual station search

> Press the **TUNE+/-** buttons briefly several times to tune to the desired station or frequency.

 The display shows the frequency in increments of 0.05 MHz.

8.5 Audio settings

- > Briefly press the **Enter/Bass** button to switch between the **audio modes [Auto]** or **[Mono]** (for weak FM reception).
- > Press and hold the **Enter/Bass** button to switch the bass boost on or off. When the function is active, **[BASS]** appears on the display.

8.6 Storing FM stations in a favourite memory slot



The favourites memory can store up to 10 stations.

- > First, tune to the desired station (see section 8.3).
- > Open the main menu by holding down the Menu/▶| button. Use the **TUNE+/-** buttons to select the **[Favourite]** entry and press the **Enter/Bass** button.
- > Use the **TUNE+/-** buttons to select a favourite memory slot 1...10 and press the **Enter/Bass** button to save the station.
- > To save further stations, repeat this procedure.

8.7 Selecting an FM station from a preset

To play a radio station that you have previously saved in the favourites memory, proceed as follows:

- > Open the main menu by holding down the Menu/▶| button. Use the **TUNE+/-** buttons to select **[Call up favourite]** and press the **Enter/Bass** button.
- > Use the **TUNE+/-** buttons to select a favourite memory slot 1...10 and press the **Enter/Bass** button to play the station.

8.8 Overwriting/deleting a preset

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



When the factory settings are recalled, all memory slots are deleted.

9 AUX-IN

The AUX-IN allows analogue audio signals from external devices, such as a smartphone, to be played back.

- > Connect the external device to the **AUX-IN** socket (9) on the STEREO MAN DAB+ OD using a standard 3.5 mm jack plug.



Make sure not to set the volume of the external device too low, as this may cause interference.

- > Press the **MODE** button until **[AUX-IN]** appears on the display.

10 Bluetooth playback

Before playing music via the Bluetooth connection for the first time, both devices must be paired.

- > Press the **MODE** button until **[Bluetooth]** and **[Pair Bluetooth]** appear on the display.
- > To pair a smartphone, open the list of nearby Bluetooth devices on your smartphone and tap the entry **STEREOMAN DAB+ OD**. A confirmation tone will sound in the speaker.
- > Select a track on your smartphone. The sound will now be played via the STEREOMAN DAB+ OD.



Please refer to your smartphone's user manual when using Bluetooth playback devices. The maximum Bluetooth range is 10 m.

102 Playback control and hands-free function



The hands-free or playback controls only work with compatible smartphones that support the HFP or AVRCP Bluetooth protocols. Adjust the volume on your smartphone if the sound is too quiet.

Hands-free function

- Answering a call
- Press **Menu/▶||** once. End call
 - Press **Menu/▶||** once.
- Reject a call
- Press and hold **Tune** for approx. 2 seconds. Redial last call
 - Press and hold **Tune +** for approx. 2 seconds.

Playback control

- Play/Pause
- Press **Menu/▶||** once.
- Next track
- Press **Tune +**.
- Track from the beginning
- Press **Tune -**.
- Previous track
- Press **Tune -** twice quickly.

11 System settings.

11.1 Auto-Dimm

The Auto-Dimm function allows you to set the time after which the display lighting should be dimmed automatically.



The Auto-Dimm function is only available in DAB+ and FM modes.

- > Open the main menu by holding down the **Menu/▶||** button. Use the **TUNE+/-** buttons to select **[Auto-Dimm]** and press the **Enter/Bass** button.
- > Use the **TUNE+/-** buttons to select one of the available times and press the **Enter/Bass** button to save.

11.2 Language

- > Open the main menu by holding down the Menu/▶|| button. Use the **TUNE+/-** buttons to select **[Language Settings]** and press the **Enter/Bass** button.
- > Use the **TUNE+/-** buttons to select one of the available OSD languages and press the **Enter/Bass** button to save.

11.3 Factory settings

Resetting to **factory settings** allows you to delete all saved channels and settings.

- > Open the main menu by holding down the Menu/▶|| button. Use the **TUNE+/-** buttons to select **[Reset System]** and press the **Enter/Bass** button.
- > Press the **Enter/Bass** button again to access the factory settings.



All previously saved stations and settings will be deleted. The device is now in its factory-set state. The device will then automatically perform a full station search in DAB+ mode. During the search, the display shows the progress and the number of digital radio stations found. Once the station search is complete, the first DAB+ programme will be played.

11.4 Software version

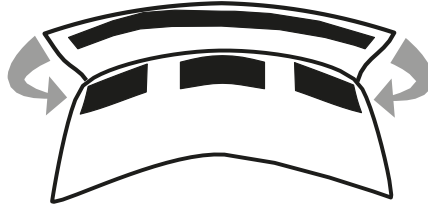
Under SW Version, you can check the currently installed software version.

- > Open the main menu by holding down the Menu/▶|| button. Use the **TUNE+/-** buttons to select the entry **[SW Ver. VX.XX]**.

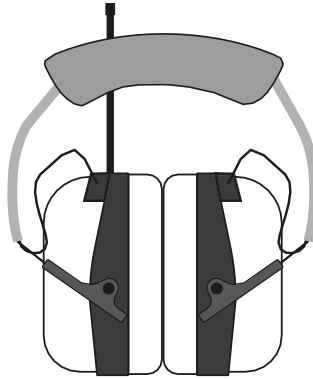
12 Notes on use as hearing protection

1. Ensure the ear muffs/hearing protection are correctly positioned (right/left).
2. Place the headband over the crown of your head and position the ear cups so that they completely enclose your ears.
The ear cups only provide hearing protection when worn with the headband over the crown of your head.
3. Gently slide the ear cups up or down to ensure a secure, comfortable fit.
4. Make sure that the ear cup pads fit snugly against your head without any foreign objects (e.g. pencils or spectacle arms) between the ear cups and your head. The headband must not be pushed back or adjusted during use.
5. The headband without additional padding corresponds to size L (Large).
6. To achieve sizes M (Medium) or S (Small), the supplied padding must be attached around the headband. Place the padding around the headband and fasten it with the Velcro fastener.

Folding the additional padding:



Padding attached to the headband:



13 Cleaning



Certain chemical substances may damage the product. Wipe it with a soft cloth dampened with mild soap or water. Do not immerse it in water. Switch off the device before cleaning!



Do not use scouring pads, scouring powder or solvents such as alcohol or petrol.



Do not use any of the following substances: salt water, insecticides, or solutions containing chlorine or acids (such as ammonia).



Do not use methylated spirits, thinners, etc.; they could damage the surface of the device.



Clean the display only with a soft cotton cloth. If necessary, use a cotton cloth with a small amount of non-alkaline, diluted soapy water or alcohol-based solution.



Gently wipe the surface with the cotton cloth.

14 FAQ

Interference/dropouts in Bluetooth music playback via the speaker.	Observe the maximum range of 10 m. Depending on local conditions, the range may be reduced.
The Kopfförer switches off automatically.	Recharge the battery.
Reception dropouts in DAB+ or FM mode	Change the location
	Remove or switch off other nearby wireless devices.

15 Technical specifications

Playback sources	DAB+, FM, Bluetooth, AUX
Radio frequencies	FM: 87.5 - 108 MHz DAB+: 174–240 MHz
Bluetooth	Version 4.2, A2DP, HFP, AVRCP 2400–2480 MHz
Bluetooth transmission power	max. 3.14 dBm
Operating voltage	DC 5V / 1A Li-ion battery 3.7 V / 1500 mAh Charging time approx. 4 hours Battery life (50% volume): 18 hours
Power consumption	0.4 W max.
Frequency response	20 Hz – 20 kHz
Power	2 x 0.1 W (RMS)
Total harmonic distortion	0.5%
Reusable	Yes
Size	L (without additional padding) S/M with additional padding
Operating conditions	Operation: 0°C to 45°C Storage: -20°C to 45°C
Weight (incl. battery)	385 g 391 g incl. battery
Materials used	Plastic: ABS Ear cups: Foam Headband: PU & foam Headband frame: Metal

Noise attenuation (EN 352-1)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
MiGel value (dB)	18.1	15.5	20.6	26.3	33.9	30.3	35.3	34.1
StD (dB)	4.8	4.0	2.6	3.0	3.4	3.5	3.4	6.1
APV (dB)	13.3	11.5	18.0	23.3	30.5	26.8	31.9	28.0

	SNR	H	M	L
MiGel value (dB)	29.9	31.6	28.4	22.0
StD (dB)	2.3	2.7	2.4	2.9
Value (dB)	28	29	26	19

Ratio between audio output level and input signal

Input signal level [dBFS]	-49	-44	-39	-34	-29	-24	-19	-14
SPL [dB(A)]	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8

Audio entertainment input (EN 352-8)

- DAB+/FM radio receiver
Maximum sound level: DAB+ mode: 80.2 dB(A) Maximum sound level: FM mode: 80.8 dB(A)
- Electrical audio input
Maximum sound level: 78.6 dB(A) at 150.0 mVrms
- Bluetooth (A2DP)
Maximum sound level: 80.5 dB(A) at -10 dBFS
- The audio signal for entertainment purposes (DAB+, FM) does not exceed 82 dB(A) at any input voltage.

Safety-related audio input (EN 352-6)

Bluetooth HSP/HFP

- Sound power level at maximum input signal: 79.8 dB(A) at -14 dBFS
- Operating time at maximum input signal: 8 hours at -14 dBFS
- Maximum input level (AUX, Bluetooth HSP/HFP): < 82 dB(A).

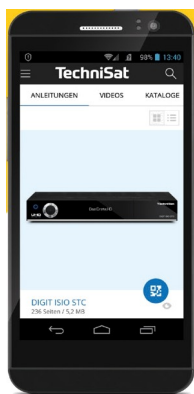
Notes

- Certain chemical substances may adversely affect this product.
- Wrapping the ear pads in 'hygiene covers' may impair the acoustic performance of the hearing protection;
- Do not tear the ear pads off the ear cups, as they are not replaceable;
- Ear cups, and in particular the ear pads, may wear out over time and should therefore be checked frequently for signs such as cracks and leaks.

Chemical composition of the battery

Lithium cobalt oxide	15–40%
Graphite	10–30%
Lithium hexafluorophosphate	10–30%
Copper	7–13%
Aluminium foil	5–10%
Nickel	1–5%

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