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You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER PXC 310 BT. You'll find the answers to all your questions on the SENNHEISER PXC 310 BT in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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User guide SENNHEISER PXC 310 BT
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Manual abstract:

DE EN FR IT ES NL

1 Important safety instructions

Important safety instructions

· · Please read these instructions carefully and completely before using the headphones. Make these instructions easily accessible to all users at all times. Always include these instructions when passing the headphones on to third parties.

Only use the headphones in aircraft where wireless Bluetooth® transmission is permitted. Do not use the headphones in situations which require special attention (e.g. in traffic or when performing skilled jobs). Always keep the headphones dry and do not expose them to extreme temperatures (normal operating temperatures: 10°C/50°F to 35°C/ 95°F).

Use the headphones with care and store them in a clean, dust-free environment. Switch off the headphones after use to conserve battery power. Remove the batteries if the headphones will not be used for extended periods of time. · The headphones contain magnets that generate a magnetic field which could cause dangerous interference with cardiac pacemakers and implanted defibrillators. Keep the headphones at least 1.

2" (3 cm) from cardiac pacemakers or implanted defibrillators. Please protect your hearing from high volume levels. Sennheiser headphones also sound exceptionally good at low volumes. Only use the supplied mains unit and charging cable. To reduce the risk of fire or electric shock, do not use the device and the mains unit near water and do not expose them to rain or moisture. Unplug the mains unit from the wall socket to completely disconnect the device from the mains during lightning storms or when unused for long periods of time. · · Only operate the mains unit from the type of power source specified in the chapter "Specifications" (see page 25). Ensure that the mains unit is in a safe operating condition and easily accessible, properly plugged into the wall socket, only operated within the permissible temperature range, not covered or exposed to direct sunlight for longer periods of time in order to prevent heat accumulation (see "Specifications" on page 25). · · Do not operate the device and the mains unit near any heat sources. Only use attachments/accessories specified by Sennheiser.

· · · · · · · 2 Important safety instructions Intended use **Intended use** of the headphones includes · · having read this instruction manual, especially the chapter "Important safety instructions" on page 2, using the headphones within the operating conditions and limitations described in this instruction manual. DE **"Improper use"** means using the headphones other than as described in this instruction manual, or under operating conditions which differ from those described herein. Safety instructions for the Lithium-Polymer battery pack If abused or misused, the battery pack may leak. In extreme cases, it may even present · · · · a heat hazard, a fire hazard, an explosion hazard, a smoke or gas hazard. EN FR IT Please understand that Sennheiser does not accept liability for damage arising from abuse or misuse. Keep away from children. Do not pack charged batteries loose danger of shorting out/fire hazard. Do not short-circuit. Switch battery pack-powered devices off after use. ES NL Observe correct polarity.

Dispose of the battery pack at special collection points or return it to your specialist dealer. Only charge the battery pack with the appropriate Sennheiser chargers. Only charge the battery pack at ambient temperatures between 10°C/50°F and 40°C/104°F. Do not mutilate or dismantle. Immediately remove the battery pack from an obviously defective device.

Only use the original Sennheiser battery pack. When not using the battery pack for extended periods of time, charge it regularly (about every 3 months). Do not heat above 70°C/ 158°F, e.g. do not expose to sunlight or throw into a fire.

Do not continue to use a defective battery pack. When not using the device for extended periods of time, remove the battery pack from the device. Do not expose to moisture. 3 PXC 310 BT **PXC 310 BT** The PXC 310 BT headphones provide undisturbed music enjoyment in noisy environments even without the constrictions of cables. Their supra-aural, closed design and the latest active noise compensation technology (NoiseGard) make the PXC 310 BT especially suitable for use with in-flight entertainment systems. Due to their active and passive attenuation of ambient noise, they let you enjoy music even in noisy

environments. Bluetooth The PXC 310 BT comply with the new Bluetooth 2.1 standard. Via their Bluetooth interface, they can be connected to a wide variety of Bluetooth enabled devices. Bluetooth wireless technology allows the PXC 310 BT to communicate with your Bluetooth enabled device (e.

g. mobile phone, MP3 player, PC or PDA) within a range of up to 10 meters. apt-X® With apt-X audio coding, you can be assured of crisp, pure and full stereo sound. It allows you to not only hear, but experience and feel the audio as it was intended. Utilizing apt-X, Bluetooth technology can now offer wireless audio quality that is indistinguishable from the highest quality wired connection. From major public broadcasters to film production studios, apt-X is used throughout the world to transmit high quality digital audio from A to Z in real-time. It was developed to meet the exacting standards of musicians and audio engineers who love the exceptional dynamic range and high fidelity it provides. Now available on selected consumer devices, the apt-X technology ensures that music lovers everywhere can stream the rich listening experience that only apt-X can deliver. NoiseGardTM The NoiseGard active noise compensation system is based on the principle of cancelling out sound using "anti-sound" (phase-inverted sound). Tiny microphones pick up low-frequency ambient noise (up to 1 kHz) near the ear.
The NoiseGard electronics use this noise to generate a sound wave which is the exact opposite (IE: at the same level but polarity reversed 180° out-of-phase), the effect being that the polarity reversed signal cancels most of the outside noise.

TalkThrough The PXC 310 BT headphones have a TalkThrough function, which allows you to communicate with other people without having to remove the headphones. When TalkThrough is activated, professional quality microphones mounted on the outside of the headphones pick up all acoustic signals in the immediate vicinity. Annoying background noise is electronically filtered out, only allowing the voice of the other person to pass through the headphones clearly. 4 PXC 310 BT Additional features · · · · Great for travel: comfortable, rugged and foldable headphone construction Optional connection via audio cable for music enjoyment without Bluetooth technology Outstanding sound quality due to patented adaptive baffle damping and Duofol diaphragms Optimum protection against ambient noise due to active and passive noise attenuation DE EN FR IT ES NL 5 Delivery includes Delivery includes 1 PXC 310 BT headphones 1 BA 370 PX battery pack 1 USB charging cable 1 PSC 03R-050 mains unit with country adapters 1 audio cable (2.

5 mm to 3.5 mm jack plug) 1 audio adapter (6.35 mm jack plug) 1 in-flight adapter (3.5 mm double mono jack plug) 1 transport case 1 quick start guide 1 CD ROM with detailed instruction manual (PDF file) interactive instruction manual 6 Delivery includes Overview of the pictograms Meaning of the pictograms for pressing a button Pictogram Meaning Briefly press this button. DE Keep this button pressed for 4 seconds.

4s Keep this button pressed until the desired setting is made or the desired action is completed. EN FR Meaning of the pictograms for the flashing of the LED Pictogram Meaning This pictogram symbolizes a flashing. This pictogram symbolizes an interruption. This pictogram symbolizes an interval. This pictogram symbolizes a continuous flashing. IT ES NL Examples of some of the pictograms that are used throughout this instruction manual: Pictogram Meaning The LED flashes once every 3 seconds. 3s The LED flashes 3 times per second. The LED flashes in a rhythmic sequence. The LED flashes blue 3 times and then goes off. The pictogram "i" This note provides important information! Notes marked with the pictogram "i" provide important information on the use of the headphones.

7 Product overview Product overview ³A Blu et oo th No ise Ga rd ¾º ³Headband · Microphone » NoiseGard button ¿ Socket for audio cable ´Bluetooth button ¶ ²Ear pad ¶ Microphone º Socket for charging cable ¾ Battery pack compartment A Operating panel 6 5 1 4 2 3 LED Fast-forward Volume button button Rewind Volume button button Master button 8 Putting the PXC 310 BT into operation Putting the PXC 310 BT into operation Before using the PXC 310 BT for the first time, remove the protection strip from the battery pack. DE EN FR IT Charging the battery pack 3h ES Before using the battery pack for the first time, charge it for at least 3 hours. When charging the battery pack, the LED µ on the battery pack lights up red. When the battery pack is fully charged, the LED µ on the battery pack lights up green. NL µ 1 3s When the battery pack is almost flat, the LED on the headphones flashes red. You hear a short, negative acknowledgement tone. The operating time of the battery pack depends on the device settings, the listening situation and the audio sources used. Type of use NoiseGard and Bluetooth technology NoiseGard without Bluetooth technology Bluetooth technology without NoiseGard Operating time 8 hours 20 hours 10 hours Remove the battery pack if the headphones will not be used for extended periods of time. You can also charge the battery pack while using the headphones. 9 Putting the PXC 310 BT into operation Possibilities of charging the battery pack First, connect the charging cable ¸ to the battery pack as described in section a and then connect the charging cable ¸ to a power source as described in section b.

¸ a b US EU AU UK a Connecting the charging cable to the battery pack You can charge the battery pack either inside orvices. Only use the headphones in aircraft where wireless Bluetooth transmission is permitted or use the audio cable instead (see "Connecting the PXC 310 BT using the audio cable" on page 16). The headphones comply with the Bluetooth 2.1 standard. In order that data can be transmitted wirelessly using Bluetooth technology, you have to register your headphones with your audio source (pairing).

The headphones can save the connection profiles of up to 8 Bluetooth devices with which they have been paired. After switch-on, the headphones automatically connect to one of these devices. If you pair the headphones with a ninth audio source, the saved connection profile of the first Bluetooth device will be overwritten. If you want to reestablish a connection with the first audio source, you have to pair the headphones with this audio source again. If your audio source does not have a Bluetooth interface, use an optional dongle (see "Accessories and spare parts" on page 24).

In addition to adding Bluetooth capability to your audio source, this dongle uses apt-X, a technology that ensures crisp, pure and full stereo sound. With apt-X, Bluetooth can now offer wireless audio quality that is indistinguishable from the highest quality wired connection. A connection to the headphones is only possible if your audio source supports the A2DP profile. DE EN FR IT ES NL 13 Putting the PXC 310 BT into operation Pairing the PXC 310 BT with an audio source Make sure that your headphones are switched off (see "Switching the PXC 310 BT on/off" on page 12). When switching the headphones on for the first time, they will automatically go into pairing mode. The headphones are waiting to be paired with a Bluetooth enabled device (see page 13). 1 5 Press the Master button and keep it pressed until the alternately flashes blue and red. LED On your audio source, activate the Bluetooth function "Add a new device". Proceed as described in the instruction manual of the audio source. 1 If a suitable audio source is found, the devices will exchange device identification information.

The LED flashes 3 times blue and you hear an ascending beep. The devices have identified each other and the headphones are paired with the audio source. PIN code When the audio source prompts for a password or PIN code, enter the default PIN code "0000". 1 3s If a connection is established, the LED continues to slowly flash blue. 1 If no device is found within approx. 5 minutes, the LED flashes 3 times red and you hear a descending beep. The headphones will then try for 3 minutes to connect to one of the up to 8 previously paired audio sources.

If this fails, the headphones automatically switch off after 60 minutes. In this case, repeat the necessary steps to pair the headphones with the audio source again. @@Briefly press the Volume button .

@@The backlighting goes off after a short time to conserve energy. @@@@@@@@You hear a descending beep. The Bluetooth connection is automatically deactivated. The headphones switch off. @@You hear a descending beep.

The Bluetooth button ´ goes off. @@@@The LED flashes 3 times red and you hear a descending beep. @@@@@@@@@@@@@@@@@@@@The NoiseGard function has to be switched on to be active. @@@@@@To switch the NoiseGard function off: Press the NoiseGard button » for 2 seconds. The red backlighting goes off and the NoiseGard function is switched off.

Conserving energy Switch the NoiseGard function off after use to conserve energy. Switching the TalkThrough function on/off The PXC 310 BT provide excellent attenuation of ambient noise. The TalkThrough function allows you to communicate undisturbed with other people without having to remove the headphones even when NoiseGard is switched on. To switch the TalkThrough function on: Briefly press the NoiseGard button ». The LED lights up red. The TalkThrough function is switched on. To switch the TalkThrough function off: Briefly press the NoiseGard button ». The LED goes off. The TalkThrough function is switched off. When the TalkThrough function is switched on, you cannot listen to music.

NL 17 Using the PXC 310 BT Switching the Bluetooth function on/off Via the Bluetooth interface, the headphones can be connected to a wide variety of Bluetooth enabled devices. To switch the Bluetooth function on: Press the Bluetooth button ´ and keep it pressed until the flashes 3 times blue. The Bluetooth function is switched on. @@You hear a descending beep. The Bluetooth button ´ goes off. The LED flashes blue and the Bluetooth function is switched off. LED Changing the volume The PXC 310 BT allow you to change the volume of the audio signal: Button Duration Function Incrementally increases the volume Button Duration Function Incrementally reduces the volume 1s Continuously increases the volume 1s Continuously reduces the volume If you press the respective button briefly, the volume is changed incrementally; if you hold down the button, the volume is changed continuously. When the minimum or maximum volume is reached, you hear an acknowledgement tone. 18 Using the PXC 310 BT Remote-controlling connected devices from the PXC 310 BT You can directly remote-control any device supporting the AVRCP profile and connected to the PXC 310 BT by using the buttons on the headphones. Please refer to the instruction manual of your audio source for information on whether your device supports the AVRCP profile.

If your device does not support the AVRCP profile, you can use an optional dongle. Using the iPod dongle or the USB dongle, you can remote-control the connected devices from the headphones. Remote-controlling the audio source from the PXC 310 BT If your headphones have a Bluetooth connection to an audio source (e.g. iPod, MP3 or CD player), you can use the PXC 310 BT to remote-control the audio source as follows: Button Duration Function Incrementally increases the volume Button Duration Function Incrementally reduces the volume DE EN FR IT 1s Continuously increases the volume Skips to the next track Fast-forwards the track Plays and repeats the track 1s Continuously reduces the volume Skips to the previous track Rewinds the track Stops the track (acknowledgement tone) ES NL 1s 1s 1s These functions are not supported by all connected Bluetooth devices.

19 Using the PXC 310 BT Resetting the settings of the PXC 310 BT You can reset all settings of your headphones to the factory default settings. This allows you to prevent that other users of the headphones can access your Bluetooth enabled devices. You can then pair five new devices with the headphones. 1 5 1 5 2s Press the Master button and keep it pressed until the LED flashes 3 times red. The headphones switch off (see "Switching the PXC 310 BT off" on page 12). Press the Master button and keep it pressed until the alternately flashes blue and red. LED 5s Press the Bluetooth button ´ and keep it pressed until the settings of the headphones are reset. 20 Transporting the PXC 310 BT Transporting the PXC 310 BT For space-saving transportation, the headphones can be folded up flatly and compactly. Rotate the ear cups by 90°. Tuck the ear cups between the headband. Place the headphones flat into the transport case. DE EN FR IT ES Your accessories can be transported in front bag of the transport case: · · Audio adapter (6.35 mm jack plug) In-flight adapter (3.5 mm double mono jack) NL 21 Cleaning and maintaining the PXC 310 BT Cleaning and maintaining the PXC 310 BT Cleaning the PXC 310 BT CAUTION! Liquids can damage the electronics of the device! Liquids entering the housing of the device can cause a shortcircuit and damage the electronics. Keep all liquids far away from the device.

Do not use any cleansing agents or solvents. For reasons of hygiene, you should clean the headphones regularly: Before cleaning, make sure that the headphones are not recharged via the mains. Only use a soft, slightly damp cloth to clean the headphones. Replacing the ear pads You can replace the ear pads. Spare ear pads are available as accessories (see "Accessories and spare parts" on page 24). Grasp the edge of the ear pad ² behind the ear cup and peel it up and away from the ear cup. Slide the new ear pad ² onto the ear cup. ² 22 If a problem occurs ...

If a problem occurs ... Problem No operation indicator headphones cannot be switched on No audio signal when the audio cable is connected Possible cause The battery pack is flat. Solution Recharge the battery pack (see page 9).

DE The jack plug of the audio cable is not properly connected. Check the connection to your audio source (see page 16). EN No audio signal The headphones are during Bluetooth switched off. connection The headphones are not paired with an audio source. The Bluetooth function on the headphones is switched off. The audio cable is connected to the headphones. Switch the headphones on (see page 12). Check if the headphones are paired. If necessary, pair the headphones with the audio source again (see page 14). Switch the Bluetooth function on the headphones on (see page 18). The connection of the audio cable automatically switches off the Bluetooth connection. Remove the audio cable and then switch the Bluetooth function on again (see page 18). Increase the volume (see page 18). Check if the audio source supports the A2DP profile. If not, use one of the optional dongles.

Switch the audio source on (see page 13). Switch the headphones on (see page 12). Switch the TalkThrough function off (see page 17).

FR IT ES NL The volume is adjusted too low. Headphones cannot be paired The pairing does not work. The audio source is switched off. No audio signal during NoiseGard operation The headphones are switched off. The TalkThrough function is switched on. When in TalkThrough mode, the audio signal is not available. The operation of the headphones is faulty.

Headphones do not react to any button press Bluetooth connection is suddenly interrupted Remove the battery pack from the headphones. Reinsert the battery pack into the headphones. Switch the headphones on again. Switch the Bluetooth function on (see page 18). The Bluetooth button has been pressed too long. 23 Accessories and spare parts Accessories and spare parts The following PXC 310 BT accessories are available from your specialist dealer: Cat. No. 531404 531405 525776 531406 088526 077046 531407 535105 502388 502390 502389 Accessory/spare part Ear pads, 1 pair Headband padding, 1 pair PSC 03R-050 mains unit with 4 country adapters (EU/UK/US/AU) Audio cable (2.5 mm jack plug to 3.5 mm jack plug) In-flight adapter (3.

5 mm double mono jack) Audio adapter (3.5 mm jack socket to ¼" (6.35 mm) jack plug) USB cable (microUSB to USB) BA 370 PX battery pack BTD 300 Audio BTD 300 USB BTD 300i 24 Specifications Specifications Transducer principle Ear coupling Frequency response Nominal impedance active/passive Sound pressure level at 1 kHz and 1 Volt THD at 1 kHz Audio connection Audio adapter In-flight adapter Cable length Audio cable Charging cable Weight BA 370 PX battery pack Charging time Operating time Operating temperature range Storage temperature range Passive noise attenuation NoiseGard active noise compensation PSC 03R-050 mains unit Nominal input voltage Nominal input current Mains frequency Nominal output voltage Nominal output current Operating temperature range Storage temperature range Relative humidity Weight Bluetooth Bluetooth® Range Transmission frequency Transmission power Protocoles Codecs version 2.1 + EDR up to 10 m 2.4 GHz 8 dBm A2DP, AVRCP SBC, apt-X 110240 V~ max. 0.2 A 5060 Hz 5V max. 0.5 A 0°C to +45°C -40°C to +85°C 20 to 90% approx. 61 g dynamic, closed supra-aural 1522,000 Hz 590/100 107 dB SPL < 0.

1% 3.5 mm stereo jack socket 6.35 mm stereo jack plug 3.5 mm double mono jack plug 1.4 m 0.8 m 105 g 3.7 V; 250 mAh Lithium-Polymer 3 hrs 8 hrs/10 hrs/20 hrs 0°C to +40°C 10°C to +70°C 25 dB 23 dB 25 apt-X audio coding apt-X audio coding Outstanding audio quality apt-X technology is what wireless audio has been waiting for. With apt-X audio coding, you can be assured of crisp, pure and full stereo sound. It allows you to not only hear, but experience and feel the audio as it was intended. Utilizing apt-X, Bluetooth can now offer wireless audio quality that is indistinguishable from the highest quality wired connection.

Until now, apt-X has been the best-kept secret of the professional audio industry. From major public broadcasters to film production studios, apt-X is used throughout the world to transmit high quality digital audio from A to Z in real-time. It was developed to meet the exacting standards of musicians and audio engineers who love the exceptional dynamic range and high fidelity it provides. Now available on selected consumer devices, the technology ensures that music lovers everywhere can stream the rich listening experience that only apt-X can deliver. Revolutionizing Bluetooth listening Bluetooth technology has revolutionized our communications and lifestyle by eliminating troublesome wires and letting us get on with life "on the move".

Listening to a mobile phone conversation on a Bluetooth earpiece sounds just fine but when it comes to delivering full stereo sound, a little extra help is required. apt-X works within Bluetooth to deliver CD quality audio, ensuring you are getting the most from your wireless listening experience. In order to deliver two-channel digital sound within the Bluetooth A2DP profile, audio compression is necessary. While traditional audio compression technologies struggle to provide full-bandwidth, high-fidelity audio over Bluetooth, apt-X works to ensure you enjoy the fullest, richest sound your music collection has to offer. apt-X legacy If you have ever been to the movies or listened to the radio then chances are you'll already have heard apt-X in action.

Over 20,000 radio stations across the world and thousands of cutting-edge film studios rely on apt-X for high quality audio delivery. The digital compression technology now known as apt-X was originally developed in Queen's University, Belfast, Northern Ireland. The technology was first brought to market for radio automation applications to store CD quality audio on computer hard drives for direct playout during radio shows, hence automating the process of the disc jockey. The acclaim the technology received lead to further research and development and throughout the 1990s the technology was used by Broadcast and Post-production studios worldwide to deliver high-fidelity, low latency audio in situations where bandwidth was limited. The same core principles that have earned apt-X worldwide acclaim in the Broadcast and PostProduction markets make it the perfect solution for delivering high quality audio on wireless devices. apt-X is leading the way in bringing pro-audio quality to the discerning consumer. Professional grade sound 26 apt-X audio coding apt-X key features: · Blind listening tests with industry reference audiences have shown that apt-X over Bluetooth is indistinguishable from audio delivered over wired technology. Unlike psychoacoustic-based technologies such as MP3 or AAC, apt-X can be used to transport audio without degrading the audio quality. With MPEG/AAC compression, the encoding process is destructive and content perceived as "irrelevant" is discarded. apt-X's transparent, non-destructive approach ensures that every frequency present in the original signal is preserved in the encoded and decoded signal.

Dynamic range of >92 dB for 16 bit audio and >120 dB for 24 bit audio. @@@@@@@@apt-X encoded audio fits neatly within the available bandwidth of wireless transmission standards to offer an efficient solution for bandwidth-restricted connections. DE · · EN FR · IT ES · NL 27 Manufacturer Declarations Manufacturer Declarations Warranty Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on this product. For the current warranty conditions, please visit our website at www.sennheiser.com or contact your Sennheiser partner. CE Declaration of Conformity These devices comply with the basic requirements and other relevant provisions of the following directives: · · · · · · · R&TTE Directive (1999/5/EC) EMC Directive (2004/108/EC) Low Voltage Directive (2006/95/EC) RoHS Directive (2002/95/EC) WEEE Directive (2002/96/EC) Battery Directive (2006/66/EC) The declaration is available on the internet at www.

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