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You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER SET 900. You'll find the answers to all your questions on the SENNHEISER SET 900 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual SENNHEISER SET 900**  
**User guide SENNHEISER SET 900**  
**Operating instructions SENNHEISER SET 900**  
**Instructions for use SENNHEISER SET 900**  
**Instruction manual SENNHEISER SET 900**



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..... 34 I Safety instructions Safety instructions Please read this instruction manual carefully and completely before using the devices. Make this instruction manual easily accessible to all users at all times.

Always include this instruction manual when passing the devices on to third parties. Do not use the devices in situations which require special attention (e.g. when performing skilled jobs). Always keep the devices dry and do not expose them to extreme temperatures. Use the devices with care and set them up in a clean, dust-free environment. Varnish or furniture polish may degrade the feet of the transmitter, which could stain your furniture. You should therefore place the transmitter on a non-slip pad to avoid potential staining of furniture. This receiver allows you to set higher volumes than conventional headphones. This can cause hearing damage in persons with healthy hearing and especially in children.

Refer all servicing to qualified service personnel. Servicing is required if the devices have been damaged in any way, such as mains cable or plug damage, liquid has been spilled, objects have fallen inside, the devices have been exposed to rain or moisture, do not operate properly or have been dropped.

**WARNING:** To reduce the risk of fire or electric shock, do not expose the device and the mains unit to rain or moisture. Use only the supplied mains unit.

Disconnect the mains connector from the wall socket to completely disconnect the device from the mains, during lightning storms or when unused for long periods of time.

Ensure that the mains unit is: always readily operable and easily accessible, properly plugged into the wall socket, not covered or exposed to direct sunlight for longer periods of time in order to prevent heat accumulation, only operated within the permissible temperature range (see "Specifications" on page 31), not operated near heat sources. 2 Safety instructions Intended use of the devices Intended use includes: having read this instruction manual, especially the chapter "Safety instructions", using the devices within the operating conditions and limitations described in this instruction manual. "Improper use" means using the devices other than as described in this instructions, or under operating conditions which differ from those described herein. Safety instructions for the Lithium-Ion rechargeable battery The BA 300 is a Lithium-Ion rechargeable battery. If abused or misused, this rechargeable battery may be damaged. Please understand that Sennheiser does not accept liability for damage arising from abuse or misuse. **WARNING!** In extreme cases, the rechargeable battery may even present a heat hazard fire hazard explosion hazard smoke and gas hazard Only charge rechargeable batteries with the appropriate Sennheiser chargers. When not using the rechargeable battery for extended periods of time, charge it regularly (every six months for about one hour). Only charge rechargeable batteries at ambient temperatures between 10°C and 40°C. Do not charge the rechargeable battery if the device is obviously defective. Return defective devices or devices with defective rechargeable batteries to your specialist dealer. Do not heat above 70°C/158°F, e.g. do not expose to sunlight or throw into a fire. Do not expose to moisture.

Do not short-circuit. Do not mutilate or dismantle. ! Store the devices/ rechargeable batteries in a cool and dry place at room temperature. 3 Delivery includes Delivery includes Delivery of the Set 900 system includes: 1 RI 900 receiver with BA 300 Lithium-Ion rechargeable battery 1 TI 900 transmitter with integrated charging compartments 1 NT 13 mains unit with 3 country adapters (EU, UK, US) 1 connection cable with two 3.5 mm stereo jack plugs for connection to a headphone socket 3 audio adapters: 1 adapter 3.5 mm to 1/4" (6.3 mm) jack plug 1 adapter for RCA socket 1 SCART adapter for SCART socket 2 pairs of spare earpads 1 transport case for receiver 1 hand strap for transport case 1 instruction manual 4 Product overview Product overview I 1 2 3 4

Receiver (see inside cover) Channel indicator Microphone indicator Volume control Microphone button Transmitter (see inside cover) 5 Microphone openings (at the sides) 6 Balance control 7 Channel search button 8 Battery compartment II 9 Charging compartment for receiver 0 Charging compartment for optional spare A B C D E F G H I rechargeable battery Charging indicator for optional spare rechargeable battery Charging indicator for receiver's rechargeable battery Operation indicator "Speech intelligibility" button Indicator for the selected speech intelligibility Socket (marked blue) for connection of sound source or external microphone Mono/stereo slide switch Treble adjustment control DC socket (marked yellow) for connection of mains unit 5 Putting the Set 900 into operation Putting the Set 900 into operation Setting up the transmitter Place the transmitter so that: there are no obstacles in the light path between transmitter and receiver and transmitter and receiver are not exposed to direct sunlight. Direct sunlight may interfere with the reception and may damage the transmitter. If you are using a plasma TV screen: Plasma TV screens radiate an infra-red signal that can adversely affect the transmission quality. Make sure that the transmitter is placed as far as possible from your plasma TV screen.

If necessary, use a standard extension cable (3.5 mm stereo jack plug) to reduce the distance between transmitter and receiver. This extension cable is available from your Sennheiser dealer. Note: One transmitter can be used to transmit to several receivers on the same frequency. 6 Putting the Set 900 into operation Connecting the transmitter to a sound source Switch your sound source (e.



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g. TV) off before connecting the transmitter. F L Plug one end of the connection cable L into the blue socket F on the transmitter. Check the connection possibilities of your sound source (e.g.

TV). Connection possibility Socket on sound source Name of connection possibility A L B R C D Head- RCA phone socket socket SCART socket MKE 800 TV-N external microphone\* Select one of the four connection possibilities A , B , C or D and follow the instructions in the corresponding chapter. Note: If there are several connections ( A , B or C ) available, select the SCART socket C . \* The MKE 800 TV-N microphone is available as an accessory (see page 30). 7 Putting the Set 900 into operation A Connecting the transmitter to a headphone socket M L Plug the other end of the connection cable L into the headphone socket on your sound source. Is the plug on the connection cable too small for the headphone socket? Plug the adapter to ¼" (6.3 mm) jack socket M onto the connection cable. Adjust the volume of the headphone socket on your sound source to a medium level. This improves the quality of cordless sound transmission. For detailed information, please refer to the instruction manual of your sound source (e.

g. TV). Note: With most TVs, the headphone socket is located at the front or sides. B Connecting the transmitter to an RCA socket N L Plug the adapter for RCA socket N onto the connection cable L. Connect the red connector of the adapter to the red RCA socket R of your sound source. Connect the white connector of the adapter N to the white or black RCA socket L of your sound source. Note: With most TVs, the RCA socket is located at the rear. 8 Putting the Set 900 into operation C Connecting the transmitter to a SCART socket L O Plug the SCART adapter O onto the connection cable L. Connect the SCART adapter O to the SCART socket on your TV. Note: If your TV has several SCART sockets, use the socket SCART output.

D Using the MKE 800 TV-N external microphone Your sound source doesn't have any of the connections mentioned above? You can then use the MKE 800 TV-N microphone (see "Accessories and spare parts" on page 30). Directly connect the microphone to the blue socket F on the transmitter. Position the microphone in front of the loudspeaker of your sound source. Note: You can change the sound by varying the position of the microphone in front of the loudspeaker. 9 Using the Set 900 Connecting the transmitter to the mains P Q Select the suitable country adapter Q for your wall socket.

US EU UK Plug the suitable country adapter onto the mains unit P. Connect the yellow connector of the mains unit to the yellow socket I on the transmitter. Plug the mains unit P into a wall socket. The operation indicator C on the transmitter lights up green. I P Notes: When connecting the transmitter to the mains for the first time, charge the rechargeable battery for 3 hours as described in the chapter 3h "Storing and charging the receiver" on page 17. If there is no audio signal from the sound source for about 3 minutes, the transmitter automatically switches off. The operation indicator C goes off. Using the Set 900 To switch the Set 900 system on, proceed as follows: 1. Switch your sound source (e.g. TV) on. The transmitter automatically switches on (see next chapter). 2. Put the stethoset receiver on. The receiver automatically switches on (see page 12).

3. Adjust the desired volume (see page 14). 4. @@The transmitter automatically switches on. The operation indicator C lights up green. The transmitter doesn't switch on? Read the chapter "If a problem occurs ..." on page 24. To switch the transmitter off: Switch your sound source off.

The transmitter automatically switches off "Fine adjusting the speech intelligibility" on page 27). 15 Using the Set 900 Switching the microphones on/off The microphones openings at the sides of the receiver pick up the sounds of your surroundings. @@@@The microphone indicator 2 lights up. You hear 2 short, ascending beeps and then your surroundings. Make sure that the microphone openings 5 are not covered! @@The channel indicator 1 goes off.

You only hear your surroundings. @@The microphone indicator 2 goes off. @@@@@green: The battery is fully charged.

@@@@@@green: The battery is fully charged. @@@@Attach the hand strap to your transport case.

@@Receiver is switched on for more than 30 secs. and no button has been pressed. Receiver is switched off. Microphones are switched on. Microphones are switched off. Transmitter is switched on. Transmitter is switched off. Rechargeable battery is being charged. Rechargeable battery is fully charged. Speech intelligibility enhancement is switched on.

@@Searches for the sound source or a different channel. @@@@Increases the volume for the left or the right ear. Sets the transmitter to mono or stereo operation. Treble adjustment is only to be made by a hearing aid technician / an expert. see page 14 14 14 27 21 What if... ...

you hear acoustic signals or warning signals? Acoustic signal 2 ascending beeps 2 descending beeps Meaning The microphones have just been switched on. The microphones have just been switched off. 1 acknowledge- The channel search button ment beep has been pressed once briefly. The channel search button has been pressed for 6 secs. 13 short beeps The receiver is set to channel 1, 2 or 3.

Warning signal 6 short beeps Meaning The receiver does not receive any signal from the transmitter: Transmitter and receiver are too distant. The receiver switches off after 3 minutes. The transmitter is switched off. The rechargeable battery is almost flat. 2 long beeps To switch the acoustic signals on and off: 7 Press the channel search button 7 on the receiver for approx.

5 seconds. You hear a short acoustic signal. Note: Warning signals cannot be switched off. 22 Cleaning the Set 900 Cleaning the Set 900 Cleaning the transmitter and the receiver CAUTION! Liquids can damage the electronics of the devices! Liquids entering the housing of the devices can cause a short-circuit and damage the electronics. Keep all liquids far away from the devices. Do not use any cleansing agents or solvents. Before cleaning, disconnect the transmitter from the mains. Use only a slightly damp cloth to clean the devices. Cleaning the earpads J Carefully remove the earpads J from the receiver.

Clean the earpads J with warm soapy water and rinse thoroughly.

Dry the earpads J. Put the earpads back on the receiver. Note: For reasons of hygiene, you should replace the earpads J from time to time. Spare earpads are available from your Sennheiser dealer (see "Accessories and spare parts" on page 30). 23 If a problem occurs ... If a problem occurs ...

The transmitter does not switch on Possible cause Solution Is the mains unit Check the connection of the mains connected correctly? unit to the transmitter and to the mains (see page 10).



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Is the sound source switched on? Is the volume of the sound source sufficient? Is the transmitter set to operating mode 2 (see page 28)? Switch your sound source on. Set the volume on your sound source to a medium value. Take the receiver out of the charging compartment. The transmitter automatically switches on.

You cannot hear anything Possible cause Is there a free line of sight between receiver and transmitter? Is the receiver still within the transmitter's range? Are transmitter and receiver exposed to direct sunlight? Are all connectors connected correctly? Is the operation indicator C lit? Is the transmitter set up the wrong way round? 24 Solution Remove obstacles in the light path between receiver and transmitter. Move the receiver closer to the transmitter. Avoid exposure to direct sunlight. Check the connection between the transmitter and your sound source (see page 7). Check if the transmitter is switched on (see page 11).

Set up the transmitter so that the cables are guided away from the receiver (see page 6). If a problem occurs ... Possible cause Does the receiver's Sennheiser logo face the transmitter? Is the volume of the sound source sufficient? Is the volume of the receiver sufficient? Is the rechargeable battery inserted properly into the receiver and fully charged? Is the sound source switched off? Solution Wear the receiver the right way round, with the Sennheiser logo facing the transmitter. Set the volume on your sound source to a medium value. Increase the volume by turning the volume control 3 on the receiver (see page 14). Check if the channel indicator 1 is lit. If it is not lit: recharge the rechargeable battery (see page 17). Press the channel search button 7 (see "Hearing situation 2" on page 16).

You hear the sound only with one ear Possible cause Is the balance adjusted correctly? Is the transmitter set to mono? Solution Turn the balance control 6 to the left or right (see page 14). Set the mono/stereo switch G on the transmitter to the left (see page 14). 25 If a problem occurs ... The sound of your sound source is hardly intelligible Possible cause Is the speech intelligibility enhancement out of adjustment? Is the receiver still within the transmitter's range? Solution Press the "speech intelligibility" button D on the transmitter until the sound is optimally adjusted to your needs (see page 15). Move the receiver closer to the transmitter. Are the microphones Press the "Microphone" button 4 switched on? on the receiver (see page 16). Do you use a plasma Make sure that the transmitter is TV screen? placed as far as possible from your plasma TV screen (see page 6). The loudspeakers of your TV are muted Possible cause Some TVs have a function that mutes the loudspeakers when you connect a transmitter.

Solution Via the operating menu of your TV, check if and how the muting function can be deactivated. Use either a different audio socket on your TV or use the MKE 800 TV-N external microphone (see "Accessories and spare parts" on page 30). If a problem occurs that is not listed in the above tables or if the problem cannot be solved with the proposed solutions, please contact your Sennheiser partner for assistance. 26 Additional technical information Additional technical information Fine adjusting the speech intelligibility The speech intelligibility can be enhanced individually on the transmitter (see page 15). There are the following settings: Setting 1 Indicator E lit yellow Fine adjustment Compression 2 Treble boost 3 Compression and treble boost Default setting No fine adjustment made Compression (settings 1 and 3) Deterioration of the ability to hear quiet sounds as well as loud ones is a typical symptom of old age.

Compression compensates for these volume differences by boosting the volume of quiet sounds and reducing the volume of loud sounds if necessary. Compression seems to put the speech in the foreground, making it easier to understand. Compression is self-regulating; once it has been activated, it is not necessary to make any other settings. Treble boost (settings 2 and 3) Another typical age-related phenomenon is the deterioration of the hearing with regard to high frequencies. However, high frequencies are important for the intelligibility of speech.

The treble boost makes the speech clearer and easier to understand. With the treble boost (settings 2 and 3), additional fine adjustment is possible using the treble boost control H on the rear of the transmitter. 27 Additional technical information H Use a screwdriver to turn the treble boost control H the left or right until the sound can be heard very well. The position "0" corresponds to a minimum boost, the position "MAX" corresponds to a maximum boost, and the control is factorypreset to the medium position. Function of the treble boost control By means of the transmitter's steplessly adjustable treble boost control the audio signal is boosted as shown in the diagram. The treble boost control allows you to select one of the curves shown in the diagram below. dB 20 "MAX" 10 Factory-preset setting "0" 0.1 1 10 kHz Changing the operating mode The transmitter can be set to a different operating mode. This is useful when the sound of your sound source is very low and the transmitter therefore does not always switch on automatically. E D Press the "speech intelligibility" button D for approx.

5 seconds. The indicator E goes off. The charging indicator for the spare rechargeable battery A flashes several times: red: green: operating mode 2 operating mode 1 (factory-preset) If the operating mode was changed successfully, the charging indicator for the spare rechargeable A goes off and the indicator E lights up again. A 28 Additional technical information Particularities of operating mode 2: In operating mode 2, the transmitter is not switched on by the sound signal from the sound source. To switch the transmitter on: Take the receiver out of the charging compartment. To switch the transmitter off:

Place the receiver into the charging compartment. If in operating mode 2 you want to use a second receiver and charge its rechargeable battery during operation: Pull the battery out of the receiver's battery compartment 8. Insert the battery into the charging compartment 0 at the side of the transmitter (see "Removing and charging the receiver's battery" on page 18). Slide the battery into the transmitter's charging compartment 0 as far as it will go. 8 0 29

Accessories and spare parts Accessories and spare parts CAUTION! Danger of damage to the device! Components from other manufacturers (e.g. @@@@No. @@No. 500898 528123 528124 528125 531428 528126 500974 517627 077798 Accessory/spare part BA 300 spare rechargeable battery Earpads (silicone, black), 5 pairs Earpads (silicone, transparent), 5 pairs Earpads (foam, black), 5 pairs Swivel joint for earpad RI 900 transport case MKE 800 TV-N external microphone (mono) Extension cable, 3 m (3.



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5 stereo jack plug) SCART adapter 30 Specifications Specifications System Modulation Frequency response THD Charging time for rechargeable battery  
Signal-to-noise ratio (1 mV, peak deviation) Operating temperature Transmitter Transmission frequencies Range Audio/microphone connection Power supply  
Weight Dimensions Receiver Max.

SPL Receiving frequencies Power supply Operating time Weight Dimensions 125 dB (SPL) 2.3 MHz/2.8 MHz/95 kHz via BA 300 rechargeable Li-Ion battery  
(3.7 V / 150 mAh) up to 12 hours approx. 73 g (incl.

BA 300) approx. 240 x 120 x 25 mm 2.3 MHz/2.8 MHz up to 12 m within a room 3.5 mm stereo jack socket 13.5 V DC/500 mA via NT 13 mains unit approx.  
260 g approx. 115 x 145 x 40 mm FM, stereo 50 Hz/16,000 Hz <1% approx. 3 hours typ. 75 dB(A) 10°C to 40°C 31 Specifications NT 13 mains unit Nominal  
input voltage Mains frequency Max.

power consumption Nominal output voltage Nominal output current Standby consumption Ambient temperature 100 V~ to 240 V~ 5060 Hz 2.4 W (incl.  
battery charging) 13.5 V DC 500 mA approx. 0.9 W (w/o battery charging) +5°C to +40°C The devices comply with the following standards: Europe EMC:  
EN 55013, EN 55020 Safety: EN 60065, EN 61558, EN 60950 47CFR15\_B IC ICES-003 USA Canada 32 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 web site at [www.sennheiser.com](http://www.sennheiser.com) or contact your Sennheiser partner.

CE Declaration of Conformity This equipment is in compliance with the essential requirements and other relevant provisions of Directives 2004/108/ EC and  
2006/95/EC. The declaration is available on the internet site at [www.sennheiser.com](http://www.sennheiser.com). Batteries or rechargeable batteries Please dispose of exhausted  
batteries and rechargeable batteries as special waste or return them to your specialist dealer.

WEEE Declaration Please dispose of this product at the end of its operational lifetime by taking it to your local collection point or recycling centre for such  
equipment. Statements regarding FCC and industry Canada This equipment has been tested and found to comply with the limits for a Class B digital device,  
pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.  
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful  
interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is  
encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation  
between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the  
dealer or an experienced radio/TV technician for help. This class B digital apparatus complies with the Canadian ICES-003 Changes or modifications made  
to this equipment not expressly approved by Sennheiser electronic Corp. may void the FCC authorization to operate this equipment. 33 Index Index Receiver  
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