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You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER RS 180. You'll find the answers to all your questions on the SENNHEISER RS 180 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SENNHEISER RS 180
User guide SENNHEISER RS 180
Operating instructions SENNHEISER RS 180
Instructions for use SENNHEISER RS 180
Instruction manual SENNHEISER RS 180



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personal audio/video player, put on the headphones and turn it on! TR 180 transmitter with multi-receiver capability, enabling up to 4 people to listen to the same sound source.

· Klear™ wireless transmission technology The RS 180 headphone system features the digital wireless audio transmission technology from Klear. The Klear company has developed an RF-based wireless transmission standard (of the same name) that offers lossless audio transmission in CD-quality while consuming minimal power. 4 Delivery includes Delivery includes 1 HDR 180 headphones 1 TR 180 transmitter 1 power supply unit with country adapters 1 stereo audio cable with 3.5 mm jack plugs 1 adapter 3.5 mm jack socket to ¼" (6.3 mm) jack plug 1 adapter 3.5 mm jack socket to 2 RCA plugs 2 AAA size NiMH rechargeable batteries, 1.



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2 V 1 cable dresser 1 cable binder 1 quick guide incl. CD ROM with detailed instruction manual (PDF file) 1 safety guide 5 Product overview Product overview Overview of the HDR 180 headphones · 3 » HDR 180 ´ ç ² ¶ µ ¾ ç ³ Headband · Charging contacts » Ear pads ç Battery compartments ´ VOLUME + button ² Multi-function button ¶ VOLUME button ° BALANCE L button ¾ BALANCE R button µ Multi-function LED With the multi-function button ², you can switch the headphones on/to standby mode, set the headphones to multi-user operation, mute the headphones and associate the headphones 6 Product overview Overview of the TR 180 transmitter 4 1 2 3 5 6 7 8 9 CHARGE LED, orange ALC button, backlit in green Multi-function button , backlit in green Charging contacts for charging the headphones RCA output (LINE OUT R, LINE OUT L) Audio input (AUDIO IN) ATTENUATOR switch Socket for power supply unit (DC 5V 0.5A) Cable dresser With the multi-function button , you can switch the transmitter on/to standby mode, set the transmitter to multi-user operation and associate the transmitter.

7 Product overview Overview of the indicators and acoustic signals Meaning of the pictograms for the different LEDs Status Meaning The LED is lit. The LED flashes once per second. 1s The LED flashes twice every 5 seconds. 5s Indicators on the headphones Indicator Multi-function LED µ 1s Status Meaning The rechargeable batteries are almost flat. The headphones are in enrollment mode (searching for a transmitter to pair with).

The headphones are in association mode (exchanging device information with the transmitter). The headphones receive an audio signal. 1s 1s 5s 8 Product overview Indicators on the transmitter Indicator CHARGE LED off ALC button Multi-function button off Status Meaning The rechargeable batteries are being charged. The rechargeable batteries are fully charged. Automatic level control is activated.

The transmitter is in standby mode. The transmitter is in enrollment mode (searching for headphones to pair with). The transmitter is in association mode (exchanging device information with the headphones). The transmitter is in single-user operation. The transmitter is in multiuser operation. 1s 1s 5s 5s Acoustic signal of the headphones 1 short beep Meaning The minimum volume is reached. The maximum volume is reached. The minimum balance is reached. The maximum balance is reached. 9 Product overview Overview of the connection stages Connection establishment Enrollment mode When you switch the headphones and the transmitter on, the headphones search for a suitable transmitter.

1s HDR 180 Pairing The headphones and the transmitter have recognized each other and the headphones are paired with the transmitter. 5s HDR 180 Single-user and multi-user operation Single-user operation You can listen to your sound source via one pair of headphones. By default, the transmitter is set to single-user operation (see page 25). 5s HDR 180 Multi-user operation In order to be able to listen to your sound source with several headphones simultaneously, you have to set your transmitter to multi-user operation (see page 28). 5s HDR 170 HDR 170 HDR 170 10 Putting the RS 180 into operation Putting the RS 180 into operation Setting up the transmitter Choose a suitable place near your sound source (e.g. TV, stereo or home cinema system). Music Photos Videos Extras Settings Shuffle Songs Do not place the transmitter close to metal objects such as shelf bars, reinforced concrete walls, etc. as this can decrease the transmitter's range. It is not necessary that the transmitter and headphones are in the same room, so you can move around freely in the home or outsil it locks onto the power supply unit D EU C Connect the connector UK US AU of the power supply unit to the socket .

3 8 E 1s Plug the power supply unit into a wall socket. The transmitter switches on. The multi-function button flashes green after 9 seconds. The transmitter is in enrollment mode. 16 Putting the RS 180 into operation Inserting and changing the rechargeable batteries For powering the headphones, you can use: · · standard batteries (AAA size, I,

5 V) NiMH rechargeable batteries (AAA size, 1.2 V, 600 mAh) If you are using standard batteries, the headphones must not be placed on the headphone holder/charger of the transmitter. Remove the ear pads » from both ear cups by turning the ear pads in the direction of the arrow until you overcome a slight resistance. Lift the ear pads » off the ear cups. » Remove the depeleted rechargeable batteries (where applies).

Insert the rechargeable batteries. Observe correct polarity when inserting the batteries. Secure the ear pads » to the ear cups. 17 Putting the RS 180 into operation Charging the headphones' rechargeable batteries CAUTION Danger of damage to the headphones! @ @ @ @ @ @ @ @ @ @ @ @ The rechargeable batteries are being charged. The CHARGE LED lights up orange. @ @ @ @ @ @ @ @ @ @ @ @ Make sure that the rechargeable batteries are charged. 2. Switch your sound source on. 3. Switch your transmitter on.

4. Switch your headphones on. 5. Adjust the desired volume. @ @ 1 second. The transmitter switches on. @ @ @ @ @ @ 1 second. The multi-function button goes off. The transmitter is in standby mode. @ @ @ @ @ @ The multi-function button goes off. @ @ @ @ @ Before putting the headphones on, set the volume to a low level. Do not continuously expose yourself to high volumes. @ @ 1 second. The headphones switch on. @ @ @ @ The multi-function LED µ of the headphones and the multi-function button of the transmitter flash slowly.

1s 5s µ 3 Switching the headphones off Press the multi-function button ² for approx. 1 second. The multi-function LED µ goes off. The headphones are in standby mode. If there is no signal from the transmitter for more than 5 minutes, the headphones automatically switch to standby mode.

21 Using the RS 180 Adjusting the volume on the headphones Press the VOLUME button ¶ or the VOLUME + button ´ repeatedly until the volume is adjusted to a comfortable and undistorted level. ¶ Vol Vol + ´ Vol Vol + Muting the headphones Briefly press the multi-function button or to cancel the muting. ² to mute the headphones ² 22 Using the RS 180 Adjusting the sound of the RS 180 to your needs Adjusting the balance The balance buttons allow for left/right volume adjustment. Adjust the balance so that you hear equally well with both ears. To adjust the volume for your left (L) or right (R) ear: Press the BALANCE L button ° or the BALANCE R button ¾. To adjust the same volume for both ears: Simultaneously press BALANCE R button ¾.



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the BALANCE L button ° and the ° ¾ 23 Using the RS 180 Enhancing the speech intelligibility The speech intelligibility can be enhanced by activating a dynamic compression system (Automatic Level Control). When activated, the automatic level control evens out volume differences, i.e. it reproduces soft passages louder and decreases loud sounds.

This seems to put the speech in the foreground, making it easier to understand. To activate the automatic level control: Press the ALC button on the transmitter. The ACL button is backlit in green. 2 24 Using the RS 180 Associating the headphones to the transmitter The RS 180 system features the digital wireless audio transmission technology from Kleer. You can also associate other Kleer compatible headphones (e.g. the Sennheiser MX W1) to the transmitter. For more information, refer to the chapter "Associating other Kleer compatible headphones to the transmitter" on page 27 or to the instruction manual of the corresponding product. The headphones and the transmitter are already associated upon delivery. You only have to associate the headphones to the transmitter · · if you want to use another pair of Kleer compatible headphones or if the transmission between the headphones and the transmitter is disturbed by interferences in the vicinity.

If you want to use several headphones, refer to the chapter "Associating several headphones to the transmitter" on page 27. Associating the HDR 180 headphones to the transmitter When associating the headphones to the transmitter, the distance between the transmitter and the headphones should not exceed 1 m. Make sure that the transmitter and the headphones are in standby mode (see page 20 and 21). 25 Using the RS 180 1s Simultaneously press the multi-function button of the transmitter and the multi-function button ² of the headphones for 7 seconds. The multi-function button of the transmitter flashes green.

7s ² 3 5s After approx. 30 seconds, the headphones are paired with the transmitter and you can hear your sound source via the headphones. The multifunction LED µ of the headphones and the multi-function button of the transmitter flash green. µ 3 26 Using the RS 180 Associating other Kleer compatible headphones to the transmitter The following describes how to associate the Sennheiser MX W1 earphones to the TR 180 transmitter. For information on how to associate other Kleer compatible headphones to the transmitter, refer to the instruction manual of the corresponding product.

Press the operation/pairing button on both MX W1 earphones for 7 seconds. Press the multi-function button of the transmitter for 7 seconds. 7s 3 5s After approx. 30 seconds, the MX W1 earphones are paired with the transmitter and you can hear your sound source via the earphones. The multi-function button of the transmitter flashes green. Associating several headphones to the transmitter In order to be able to use several headphones simultaneously, you first have to associate your additional headphones to the transmitter. Follow the steps in the previous chapter "Associating the headphones to the transmitter".

You can then only use the last headphones paired to listen to your sound source (single-user operation). To listen to your sound source with up to 4 headphones simultaneously: Set your transmitter to multi-user operation as described in the next chapter. 27 Using the RS 180 Listening with several headphones simultaneously By default, the transmitter is set to single-user operation.

In order to be able to listen to your sound source with several headphones simultaneously, you have to set your transmitter to multi-user operation. The settings for the left/right volume adjustment is applied to the additional headphones. The volume of the each pair of headphones can be adjusted individually. Make sure that all headphones are paired to the transmitter (see previous chapter). Switch all headphones on (see page 21). Then switch the transmitter on (see page 19). Briefly press the multi-function button of the transmitter. The multi-function button of the transmitter and the multifunction LEDs µ of the headphones flash green. You can now listen to your sound source with several headphones simultaneously. 5s HDR 180 HDR 180 HDR 180 When pressing the transmitter's multi-function button in multi-user operation, the transmitter switches to single-user operation.

You can still listen to your sound source with the last headphones paired, the other headphones are disconnected from the transmitter. 28 Cleaning the RS 180 Cleaning the RS 180 CAUTION Liquids can damage the electronics of the product! Liquids entering the housing of the product can cause a short-circuit and damage the electronics. Keep all liquids far away from the product. Do not use any cleansing agents or solvents. Before cleaning, switch the product off and disconnect the transmitter from the mains.

Only use a dry and soft cloth to clean the product. Replacing the ear pads For reasons of hygiene, you should replace the earpads from time to time. Spare earpads are available from your Sennheiser dealer (see "Accessories and spare parts" on page 32). Remove the ear pads » from the ear cups by turning the ear pads in the direction of the arrow until you overcome a slight resistance. Lift the ear pads » off the ear cups.

» » Secure the new ear pads to the ear cups. 29 If a problem occurs ... If a problem occurs ... Sound problems Problem No sound Possible cause Possible solutions Page 19/21 Transmitter is/headphones Switched the are switched off transmitter/ headphones on Headphones are muted Jack plug is not properly connected Sound source is switched off Audio cable is defective Transmission between transmitter and headphones is disturbed by interferences (including ESD) in the vicinity Cancel the muting Check the plug connection Switch the sound source on Replace the cable Associate the headphones with the transmitter again Disconnect the transmitter from the mains and reconnect it again Remove the rechargeable batteries from the headphones and reinsert them again Headphones are not correctly associated with the transmitter (e.g. additional headphones) Associate the headphones with the transmitter Reduce the distance between headphones and transmitter Remove obstacles between transmitter and headphones Change your position Increase the volume of the sound source Set the ATTENUATOR switch to "0 dB" Increase the volume by pressing the VOLUME + button ´ Replace the audio cable 22 12 25 16 17 25 Occasional sound dropouts Headphones are out of range 11 Signal is shielded 11 Interfering devices in the vicinity Sound is too Volume of the sound low source is adjusted too low Signal of the sound source is too weak Headphone volume is adjusted too low Sound only on one ear Audio cable is defective 11 13 22 12 Audio cable is not properly Check the plug connected connection 30 If a problem occurs .



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.. Problem Sound is distorted Possible cause Signal of the sound source is distorted Possible solutions Reduce the volume of the sound source Reduce the volume by pressing the VOLUME button ¶ on the headphones Page 22 Signal of the sound source is too strong Set the ATTENUATOR switch to "8 dB" 14 Other problems Problem Possible cause Possible solution Check the connection of the power supply unit to the transmitter and to the mains Page 16 The mains connection transmitter cannot be switched on Headphone Rechargeable batteries are Recharge the s cannot be flat rechargeable switched on batteries Rechargeable batteries are Remove the inserted the wrong way rechargeable round. batteries from the headphones and reinsert them again. Observe correct polarity Headphone Headphones do not make s cannot be contact to the charging recharged contacts Ensure that the headphones are properly seated on the charging contacts Clean the charging contacts Operating time decreases Rechargeable batteries are Replace the exhausted rechargeable batteries 18 17 18 29 17 If a problem occurs that is not listed in the above table or if the problem cannot be solved with the proposed solutions, please contact your local Sennheiser partner for assistance. To find a Sennheiser partner in your country, search at www.sennheiser.com. 31 Accessories and spare parts Accessories and spare parts Only use original Sennheiser accessories and spare parts, otherwise the product quality can be impaired or the product can be damaged. Cat. No. 504252 534480 534486 534479 093778 514267 534470 Accessory/spare part HDR 180 headphones Power supply unit with country adapters Stereo audio cable with two 3.5 mm jack plugs (2 m) DC cable (4.0 mm DC jack socket to 2 x 4.0 mm DC plug) Adapter (3.5 mm jack socket to ¼" (6.3 mm) jack plug) Adapter (3.5 mm jack socket to 2 RCA plugs) 1 pair of ear pads (closed type) 32 Specifications Specifications RS 180 system Modulation Carrier frequencies Range Ambient temperature TR 180 transmitter Audio connection Power consumption (standby mode) Power supply Transmission power Weight Dimensions HDR 180 headphones Transducer principle Max. SPL THD Frequency response Charging time of rechargeable batteries Power supply Operating time circumaural, open 106 dB (SPL) < 0.5 % at 1 kHz, 100 dB SPL 18 Hz 21,000 Hz approx. 16 hours 2 AAA size NiMH rechargeable batteries, 1.2 V, 600 mAh approx. 24 hours 3.5 mm stereo jack socket < 0.5 W 5 V, 500 mA < 10 mW approx. 341 g 12.5 cm x 10 cm x 23 cm MSK digital 2.4 2.48 GHz approx. 100 m in the open area 32 °F to 104 °F (0 °C to 40 °C) Weight approx.

209 g (w/o rechargeable batteries) SSA-4P 5050F power supply unit Rated input Rated output 100 240 V~, 0.2 A, 50 60 Hz 5 V, 500 mA Operating temperature range 32 °F to 104 °F (0 °C to 40 °C) 33 Manufacturer declarations Manufacturer declarations Warranty Sennheiser 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. @@@@ In order to protect the environment, only dispose of exhausted batteries. WEEE Declaration Your Sennheiser product was developed and manufactured with highquality materials and components which can be recycled and/or reused. This symbol indicates that electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime. Please dispose of this product by taking it to your local collection point or recycling centre for such equipment.

This will help to protect the environment in which we all live. 34 Manufacturer declarations Statements regarding FCC and Industry Canada FCC Declaration of Conformity (DoC) SENNHEISER Model No: RS 180 We, Sennheiser Electronic Corporation Strat. Marketing · Stefanie Reichert One Enterprise Drive · Old Lyme · CT 06371 · USA Tel: +1 (860) 434 9190, ext. 144 Fax: +1 (860) 434 1759 declare the above device comply with the requirements of Federal Communications Commission. This device complies with Part 15 of the FCC rules. Operation is subjected to the following two conditions: 1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation. Responsible Party: John Falcone This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. 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. RF Radiation Exposure Information Since the radiated output power of this device is far below the FCC radio frequency exposure limits, it is not subjected to routine RF exposure evaluation as per Section 2.

1093 of the FCC rules. 35 Manufacturer declarations In compliance with: USA Canada Europe FCC ID: DMOTR180 FCC ID: DMOHDR180 IC: 2099A-TR180 IC: 2099A-HDR180 Australia/ New Zealand Singapore Trademarks The Klear logo is a trademark of Klear Inc. About ENERGY STAR ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment. 36 Sennheiser electronic GmbH & Co. KG Am Labor 1, 30900 Wedemark, Germany www.sennheiser.com Publ. 08/09 A01 .



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