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You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER RS 170. You'll find the answers to all your questions on the SENNHEISER RS 170 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 170
User guide SENNHEISER RS 170
Operating instructions SENNHEISER RS 170
Instructions for use SENNHEISER RS 170
Instruction manual SENNHEISER RS 170

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... 33 1 Important safety information Important safety information · · Please read this instruction manual carefully and completely before using the product. Make this instruction manual easily accessible to all users at all times.
Always include this instruction manual when passing the product on to third parties. Do not use the product in situations which require special attention (e.g. in traffic or when performing skilled jobs). Always keep the product dry and do not expose it to extreme temperatures (normal operating temperatures: 0 °C/32 °F to 40 °C/ 104 °F). Use the product with care and store it in a clean, dust-free environment. Switch the headphones off after use to conserve battery power. Remove the batteries if the product will not be used for extended periods of time. The headphones contain magnets that generate a magnetic field which could cause 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 Sennheiser supplied power supply units. To reduce the risk of fire or electric shock, do not use the product near water and do not expose it to rain or moisture. Unplug the power supply unit from the wall socket to completely disconnect the product from the mains during lightning storms or when unused for long periods of time. · · Only operate the power supply unit from the type of power source specified in the chapter "Specifications" (see page 32). Ensure that the power supply 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 32). · · Do not operate the product near any heat sources. Only use attachments/accessories specified by Sennheiser (see "Accessories and spare parts" on page 31).
· · · · · · · · · 2 Important safety information Replacement parts When replacement parts are required, be sure the service technician uses replacement parts specified by Sennheiser or those having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. Intended use Intended use of the product includes · · having read this instruction manual, especially the chapter "Important safety instructions" on page 2, using the product within the operating conditions and limitations described in this instruction manual. "Improper use" means using the product other than as described in this instruction manual, or under operating conditions which differ from those described herein. Safety instructions for the NiMH rechargeable batteries If abused or misused, the rechargeable batteries may leak.
In extreme cases, they may even present · · · · a heat hazard, a fire hazard, an explosion hazard, a smoke or gas hazard. Please understand that Sennheiser does not accept liability for damage arising from abuse or misuse. Keep away from children. Observe correct polarity. Do not expose to moisture.
Do not pack charged batteries loose danger of shorting out/fire hazard. Only charge rechargeable batteries at ambient temperatures between 10 °C/50 °F and 40 °C/ 104 °F. Do not mutilate or dismantle. Immediately remove rechargeable batteries from obviously defective devices. Only use rechargeable batteries recommended by Sennheiser. Do not short-circuit. Switch rechargeable batterypowered products off after use. When not using rechargeable batteries for extended periods of time, charge them 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 defective rechargeable batteries. Dispose of rechargeable batteries at special collection points or return them to your specialist dealer. 3 The RS 170 digital RF headphone system The RS 170 digital RF headphone system The RS 170 is an RF stereo hi-fi headphone system with comprehensive technical features. Its transparent and balanced sound image with excellent bass response makes this system an ideal choice for hi-fi, home cinema and TV use. The rechargeable batteries can conveniently be recharged while in the headphones. Enjoy total freedom of sound, stylish design and maximum comfort. Additional features of the RS 170 headphone system · · · · Transmits uncompressed audio over a robust 2.4 GHz digital link, enabling you to enjoy your music without the hassles of cables. Dynamic transducer systems with powerful neodymium magnets deliver clear and detailed audio reproduction.
Kleer's uncompressed digital wireless transmission delivers CD-quality sound. No set-up required just plug and play. Simply connect the transmitter to your personal audio/video player, put on the headphones and turn it on! TR 170 transmitter with multi-receiver capability, enabling up to 4 people to listen to the same sound source. · KleerTM wireless transmission technology The RS 170 headphone system features the digital wireless audio transmission technology from Kleer. The Kleer 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 170 headphones 1 TR 170 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.
2 V 1 cable dresser 1 cable binder 1 quick guide incl.

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CD ROM with detailed instruction manual (PDF file) 1 safety guide 5 Product overview Product overview Overview of the HDR 170 headphones ³ · » HDR 170 ´ ¿ ² ¶ º µ ¾ ¿ ³ Headband · Charging contacts » Ear pads ¿ Battery compartments ´ VOLUME + button ² Multi-function button ¶ VOLUME button º SURR button ¾ BASS 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 170 transmitter 5 1 2 3 4 6 7 8 9 CHARGE LED, orange BASS button, backlit in green SURROUND button, backlit in green Multi-function button 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. , backlit in green Charging contacts for charging the headphones 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 BASS button SURR button Multi-function button off Status Meaning The rechargeable batteries are being charged. The rechargeable batteries are fully charged. The dynamic bass boost is activated. 3D surround sound 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 singleuser 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 SURR button The BASS button º is being pressed. ¾ is being pressed. 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 170 Pairing The headphones and the transmitter have recognized each other and the headphones are paired with the transmitter. 5s HDR 170 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 24). 5s HDR 170 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 27). 5s HDR 170 HDR 170 HDR 170 10 Putting the RS 170 into operation Putting the RS 170 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 outside in the garden. Cable dresser Snap the cable dresser t 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. @@Insert the rechargeable batteries. @@@@@@@@@@@@@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 flashes green, indicating that the headphones are in enrollment mode.
Once the headphones have found a suitable transmitter, the transmitter pairs with the headphones and transmits an audio signal. The multi-function LED µ of the headphones and the multi-function button of the transmitter flash slowly. 1s 5s µ ² 4 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. 20 Using the RS 170 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 21 Using the RS 170 Adjusting the sound of the RS 170 to your needs Activating/deactivating 3D surround sound You can activate or deactivate 3D surround sound on the transmitter or directly on your headphones.

To activate 3D surround sound: Press the SURR button º on the SURROUND button on the transmitter. The SURROUND button is backlit in green. headphones or the º 3 22 Using the RS 170 Activating/deactivating the dynamic bass boost You can activate or deactivate the dynamic bass boost on the transmitter or directly on your headphones. To activate the dynamic bass boost: Press the BASS button ¾ on the headphones or the BASS button on the transmitter. The BASS button is backlit in green. ¾ 2 23 Using the RS 170 Associating the headphones to the transmitter The RS 170 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 26 or to the instruction manual of the corresponding product.

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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 26. Associating the HDR 170 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 19 and 20).

24 Using the RS 170 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 4 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 4 25 Using the RS 170 Associating other Kleer compatible headphones to the transmitter The following describes how to associate the Sennheiser MX W1 earphones to the TR 170 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 4 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 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. 26 Using the RS 170 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 dynamic bass boost and for 3D surround sound are 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 20). Then switch the transmitter on (see page 18). 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 170 HDR 170 HDR 170 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. 27 Cleaning the RS 170 Cleaning the RS 170 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 ear pads from time to time. Spare ear pads are available from your Sennheiser dealer (see "Accessoires and spare parts" on page 31).

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. 28 If a problem occurs ... If a problem occurs ... Sound problems Problem No sound Possible cause Possible solutions Page 18/20 Transmitter is/headphones Switch 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 21 12 24 15 16 24 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 21 12 Audio cable is not properly Check the plug connected connection 29 If a problem occurs ... 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 21 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 15 The No 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 17 16 17 28 16 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.

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30 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. 504251 534480 534486 534479 093778 514267 534470 Accessory/spare part HDR 170 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) 31 Specifications Specifications RS 170 system Modulation Carrier frequencies Range Ambient temperature TR 170 transmitter Audio connection Power consumption (standby mode) Power supply Transmission power Weight Dimensions HDR 170 headphones Transducer principle Max. SPL THD Frequency response Charging time of rechargeable batteries Power supply Operating time circumaural, closed 110 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. 336 g 12.5 cm x 10 cm x 23 cm MSK digital 2.4 2.

48 GHz approx. 80 m in the open area 32 °F to 104 °F (0 °C to 40 °C) Weight approx. 228 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) 32 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. 33 Manufacturer declarations Statements regarding FCC and Industry Canada FCC Declaration of Conformity (DoC) SENNHEISER Model No: RS 170 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. 34 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 Kleer logo is a trademark of Kleer 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. 35 Sennheiser electronic GmbH & Co.
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