



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER SR 2050 IEM. You'll find the answers to all your questions on the SENNHEISER SR 2050 IEM in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual SENNHEISER SR 2050 IEM**  
**User guide SENNHEISER SR 2050 IEM**  
**Operating instructions SENNHEISER SR 2050 IEM**  
**Instructions for use SENNHEISER SR 2050 IEM**  
**Instruction manual SENNHEISER SR 2050 IEM**



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<http://yourpdfguides.com/dref/3541298>

*Manual abstract:*

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*5 Product overview .....*

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*6 Overview of the SR 2000 IEM/SR 2050 IEM transmitter .....*

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*... 6 Overview of the displays ..*

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*. 7 Putting the transmitter into operation .....*

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*.. 8 Setting up the transmitter on a flat surface .....*

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*.... 11 Daisy chaining audio signals .....*

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*..... 11 Connecting devices to the output sockets .*

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*12 Connecting transmitters in a network .....*

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*..... 12 Connecting the mains cable ..*

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*.... 12 Using the transmitter .....*

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*Deactivating the lock mode temporarily* .....

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.... *Activating/deactivating the RF signal* .....

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*.. Monitoring the audio signal via headphones .....*

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*..... Synchronizing transmitters and EK 2000 IEM receivers via the infra-red interface ..*

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*..... Using the operating menu ...*

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... 25 Synchronizing the transmitter with the EK 2000 IEM receiver ..

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. Synchronizing the transmitter with an EK 2000 IEM receiver individual operation .....

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.. Synchronizing transmitters with EK 2000 IEM receivers multi-channel operation ...

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.... Using freely selectable transmission frequencies .

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*.. 30 30 30 31 Cleaning the transmitter ...*

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*..... 32 Recommendations and tips ...*

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*..... 33 Accessories ...*

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*35 Specifications .....*

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*36 Manufacturer Declarations .....*

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39 Supplementary information can be found on the SR 2000 IEM and SR 2050 IEM product pages on our website at [www.sennheiser.com](http://www.sennheiser.com). 1 Important safety instructions Important safety instructions 1.

Read these instructions. 2. Keep these instructions. Always include these instructions when passing the transmitter on to third parties. 3. Heed all warnings. 4. Follow all instructions. 5. Do not use this apparatus near water.

6. Clean only with a dry cloth. 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer. 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, when the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle. 16. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. 17.

Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment. 18. The mains plug of the power supply cord shall remain readily accessible. Hazard warnings on the rear of the transmitter The label shown on the left is attached to the rear of the transmitter. The symbols on this label have the following meaning: This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the transmitter's enclosure that may be of sufficient magnitude to constitute risk of fire or electric shock. 2 Important safety instructions This symbol is intended to alert the user to the risk of electric shock if the transmitter is opened. There are no user serviceable parts inside. Refer servicing to qualified personnel only. This symbol is intended to indicate the presence of important operating and maintenance instructions in the literature accompanying this transmitter. Overloading Do not overload wall outlets and extension cables as this may result in fire and electric shock.

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. Safety check Upon completion of any service or repairs to this device, ask the service technician to perform safety checks to determine that the device is in safe operating order. Danger of hearing damage due to high volumes This is a professional transmitter. Commercial use is subject to the rules and regulations of the trade association responsible.

Sennheiser, as the manufacturer, is therefore obliged to expressly point out possible health risks arising from use. This transmitter is capable of producing sound pressure exceeding 85 dB(A). 85 dB(A) is the sound pressure corresponding to the maximum permissible volume which is by law (in some countries) allowed to affect your hearing for the duration of a working day. It is used as a basis according to the specifications of industrial medicine. Higher volumes or longer durations can damage your hearing.

At higher volumes, the duration must be shortened in order to prevent hearing damage. The following are sure signs that you have been subjected to excessive noise for too long a time: · You can hear ringing or whistling sounds in your ears. · You have the impression (even for a short time only) that you can no longer hear high notes. Intended use Intended use of the SR 2000 IEM and SR 2050 IEM transmitters includes: · having read these instructions, especially the chapter "Important safety instructions" on page 2, · using the device within the operating conditions and limitations described in this instruction manual.

"Improper use" means using the device other than as described in these instructions, or under operating conditions which differ from those described herein. 3 The SR 2000 IEM and SR 2050 IEM transmitters The SR 2000 IEM and SR 2050 IEM tra +22dBu MAX R(II) L(I) ETHERNET RJ-45 L(I) R(II) L(I) R(II) RF OUT ETHERNET RJ-45 BAL AF IN A + 22dBu MAX R(II) RF OUT  $\mu$ ,  $^1$ ,  $^1$  SR 2000 IEM PEAK PEAK Stereo Transmitter SR 2000 IEM A 0 -10 -20 -30 -40 AF I 0 -10 -20 -30 -40 AF II B.



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Ch: EQ 5.14 \*\*2000\*\* 525.300MHz Standard -18dB PUSH PUSH Stereo Transmitter SR 2000 IEM FREQ RANGE-Dw 790-865 mHz ART NO 503841 SER NO 2518100095 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY B 100 - 240V 50/60Hz 0.2 A B ETHERNET RJ-45 L(I) Loop Out BAL +22dBu MAX R(II) L(I) BAL AF IN + 22dBu MAX ANT R(II) RF OUT  $\mu$ , <sup>1</sup>A Operating elements front panel B Operating elements rear panel <sup>3</sup>Rack mount "ear" - Headphone output, 1/4" (6.3 mm) jack socket ( ) » Headphone volume control  $\zeta$  button, backlit  $\nu$  Infra-red interface <sup>2</sup>Display panel, backlit in orange  $\eta$  Jog dial <sup>o</sup> STANDBY button operation indication (red backlighting) ESC function (cancel) <sup>3/4</sup> 3-pin mains socket  $\mu$  Cable grip for power supply DC cable  $\lambda$  LED (yellow) for network activity indication \* <sup>1</sup>LAN socket (ETHERNET RJ-45)\* Audio output left (LOOP OUT BAL L (I)), 1/4" (6.3 mm) jack socket\* Audio output right (LOOP OUT BAL R (II)), 1/4" (6.3 mm) jack socket\* Audio input left (BAL AF IN L (I)), 1/4" (6.3 mm) jack/XLR-3 combo socket\* Audio input right (BAL AF IN R (II)), 1/4" (6.3 mm) jack/XLR-3 combo socket\* During mono operation, the signal from the left audio Type plate input (1/4" (6.3 mm) jack/XLR-3 combo socket ) is transmitted. Antenna output (RF OUT), BNC socket\* \* These operating elements are available twice on the SR 2050 IEM twin transmitter and are labeled A and B respectively. A designates the left-hand transmitter, B the right-hand one (seen from the front). 6 Product overview Overview of the displays After switch-on, the transmitter displays the standard display. PEAK PEAK 0 -10 -20 -30 -40 AF I 0 -10 -20 -30 -40 AF II B.

Ch: 5.14 \*\*2050\*\* 552.300 MHz EQ Standard -18dB 28 Display Audio level "AF I" and "AF II" (Audio Frequency) Meaning PEAK PEAK 0 -10 -20 -30 -40 AF I 0 -10 -20 -30 -40 AF II Modulation of the left (AF I) and right (AF II) audio channel with peak hold function When the transmitter is overmodulated frequently or for extended periods of time, the "PEAK" display is shown inverted. In addition, the display backlighting changes from orange to red and "AF PEAK" flashes in alternation with the standard display. During mono operation, only the "AF I" display is shown.

Frequency bank and channel Frequency Name Transmission icon Transmission power Equalizer setting Input sensitivity Current frequency bank and channel number Current transmission frequency Freely selectable name of the transmitter RF signal is being transmitted Current transmission power Current equalizer setting Current input sensitivity for the audio signal available at the audio input sockets BAL AF IN L (I) and BAL AF IN R (II) . Lock mode is activated (see page 14) Lock mode icon 7 Putting the transmitter into operation Putting the transmitter into operation Setting up the transmitter on a flat surface Do not fit the device feet when mounting the transmitter into a 19" rack. Clean the base of the transmitter where you want to fix the device feet. Fit the device feet to the four corners of the transmitter. Place the transmitter on a flat, horizontal surface.

Please note that the device feet can leave stains on delicate surfaces. Mounting the transmitter into a 19" rack CAUTION! Risks when rack mounting the transmitter! When installing the device in a closed or multi-rack assembly, please consider that, during operation, the ambient temperature, the mechanical loading and the electrical potentials will be different from those of devices which are not mounted into a rack. Make sure that the ambient temperature within the rack does not exceed the permissible temperature limit specified in the specifications. If necessary, provide additional ventilation. Make sure that the mechanical loading of the rack is even. When connecting to the power supply, observe the information indicated on the type plate. Avoid circuit overloading. If necessary, provide overcurrent protection. When rack mounting, please note that intrinsically harmless leakage currents of the individual mains units may accumulate, thereby exceeding the allowable limit value. As a remedy, ground the rack via an additional ground connection.

Slide the transmitter into the 19" rack. Secure the rack mount "ears" <sup>3</sup> to the rack using four screws (not included in the delivery). PEAK PEA 0 -10 -20 -30 -40 AF I 0 -10 -20 -30 -40 AF Connecting the antennas You have the following options: - For professional use, we recommend connecting a remote antenna and, if necessary, using Sennheiser antenna accessories (see next section and the chapter "Connecting several transmitters to a remote antenna" on page 9) . If the transmitter is to be put into operation without a large amount of installation work, you can: connect the supplied rod antenna to the rear of the transmitter (see page 9) or use the optional GA 3030 AM antenna front mount kit (see page 9). 8 Putting the transmitter into operation Connecting and positioning a remote antenna Use a remote antenna when the transmitter position is not the best antenna position for optimum transmission. You can choose between two antennas (see "Accessories" on page 34): - A 2003 UHF passive directional broadband antenna - A 1031 passive omni-directional broadband antenna Use a low-attenuation 50- cable to connect the antenna to the transmitter. If possible, use a short antenna cable and as little connections as possible, since long cables and many connectors lead to an attenuation of the antenna signal. Position the antenna in the same room in which the transmission takes place. Observe a minimum distance of 1 m between the antenna and metal objects (including reinforced concrete walls). You can connect several transmitters to the same remote antenna (see next section).

Connecting several transmitters to a remote antenna To make multi-channel systems, you should use the AC 3200 antenna combiner (optional accessory). The AC 3200 allows you to operate up to eight transmitters with a single antenna without virtually any intermodulation. Connect the AC 3200 antenna combiner to the BNC socket . Connecting the rod antenna to the rear of the transmitter The supplied rod antenna is suitable for all applications where the transmitter is to be put into operation without a large amount of installation work. Connect the rod antenna to the BNC socket .

Mounting the antennas to the front of the transmitter To mount the antenna connections to the front of the transmitter, you require the GA 3030 AM antenna front mount kit (optional accessory). The GA 3030 AM consists of: 9 Putting the transmitter into operation · 2 BNC extension cables (screw-in BNC socket · 2 antenna holders · 4 screws, · 2 washers 4 to BNC connector) , , , · 2 nuts .



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*I Guide the BNC connector "ear" <sup>3</sup>. Connect the BNC connector of the BNC extension cable through the hole in the rack mount to the antenna output . <sup>3</sup> Screw the antenna holder nut .*

*to the BNC socket using the supplied washer and Secure the antenna holder the supplied screws. to the rack mount "ear" <sup>3</sup> of the transmitter using two of If you are using the SR 2050 IEM twin transmitter: Mount the second BNC extension cable in the same way. <sup>3</sup> I <sup>3</sup> Slide the transmitter into the 19" rack. 10 Putting the transmitter into operation Connect the rod antennas to the two BNC sockets . Connecting an audio source to the input sockets PUSH PUSH Stereo Trans FREQ RANGE-Dw 790-865 mHz ART NO 503841 SER NO 2518100095 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY ANT Use a suitable cable to connect the output of the audio source (e.g. mixing console) to the 1/4" (6.3 mm) jack/XLR-3 combo socket BAL AF IN L (I) and/or BAL AF IN R (II) . Adjust the output level of your audio source. Via the operating menu, adjust the transmitter's input sensitivity.*

*The input sensitivity is adjusted via the "Sensitivity" menu item and is common for both inputs (see page 22). You can connect several transmitters to the same audio source (see next chapter). L(I) BAL AF IN + 22dBu MAX R(II) RF OUT Daisy chaining audio signals You can transmit the same audio signal (e.g. the sum of all audio channels of a mixing console) to several receivers of a multi-channel system. To do so, you have to daisy chain this audio signal from one transmitter to the next via the output sockets LOOP OUT BAL L (I) or LOOP OUT BAL R (II) . The audio signal is then transmitted by all transmitters on one of the two channels L (I) or R (II). The second channel allows you to transmit an individual audio signal (e.g. the instrument of a musician).*

*Using the balance setting on the receiver, you can then adjust the relative levels of the sum of all audio channels and the individual audio signal. For this, the transmitter has to be set to stereo mode and the receiver to Focus mode. To daisy chain an audio signal from one transmitter to the next: Route a signal from the audio source to the input socket (in this example: BAL AF IN R(II) ) of transmitter A. PUSH PUSH Stereo Transmitter SR 2000 IEM FREQ RANGE-Dw 790-865 mHz ART NO 503841 SER NO 2518100095 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY PUSH PUSH Stereo Transmitter SR 2000 IEM FREQ RANGE-Dw FREQ RANGE-Dw 790-865 mHz 790-865 mHz ART NO 503841 ART NO 627945 SER NO 2518100095 SER NO 251810043 FMO IC 2099A-SR20x0 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY DESIGNED AND MADE IN GERMANY PUSH Loop Out B BAL ANT B Loop Out A BAL ANT A B 100 - 240V 50/60Hz 0.2 A +22dBu MAX BAL AF IN B + 22dBu MAX B R(II) L(I) L(I) +22dBu MAX R(II) L(I) ETHERNET RJ-45 L(I) R(II) RF OUT ETHERNET RJ-45 BAL AF IN A + 22dBu MAX R(II) RF OUT A Loop Out BAL ANT B 100 - 240V 50/60Hz 0.*

*2 A +22dBu MAX BAL AF IN + 22dBu MAX ETHERNET RJ-45 L(I) R(II) L(I) R(II) RF OUT A PUSH PUSH Stereo Transmitter SR 2000 IEM FREQ RANGE-Dw 790-865 mHz ART NO 503841 SER NO 2518100095 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY PUSH PUSH Stereo Transmitter SR 2000 IEM FREQ RANGE-Dw FREQ RANGE-Dw 790-865 mHz 790-865 mHz ART NO 503841 ART NO 627945 SER NO 2518100095 SER NO 251810043 FMO IC 2099A-SR20x0 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY DESIGNED AND MADE IN GERMANY PUSH Loop Out B BAL ANT B Loop Out A BAL ANT A B 100 - 240V 50/60Hz 0.2 A +22dBu MAX BAL AF IN B + 22dBu MAX B R(II) L(I) L(I) +22dBu MAX R(II) L(I) ETHERNET RJ-45 L(I) R(II) RF OUT ETHERNET RJ-45 BAL AF IN A + 22dBu MAX R(II) RF OUT B Loop Out BAL ANT B 100 - 240V 50/60Hz 0.2 A +22dBu MAX BAL AF IN + 22dBu MAX ETHERNET RJ-45 L(I) R(II) L(I) R(II) RF OUT B PUSH PUSH Stereo Transmitter SR 2000 IEM FREQ RANGE-Dw 790-865 mHz ART NO 503841 SER NO 2518100095 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY PUSH PUSH Stereo Transmitter SR 2000 IEM FREQ RANGE-Dw FREQ RANGE-Dw 790-865 mHz 790-865 mHz ART NO 503841 ART NO 627945 SER NO 2518100095 SER NO 251810043 FMO IC 2099A-SR20x0 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY DESIGNED AND MADE IN GERMANY PUSH Loop Out B BAL ANT B Loop Out A BAL ANT A B 100 - 240V 50/60Hz 0.2 A +22dBu MAX BAL AF IN B + 22dBu MAX B R(II) L(I) L(I) +22dBu MAX R(II) L(I) ETHERNET RJ-45 L(I) R(II) RF OUT ETHERNET RJ-45 BAL AF IN A + 22dBu MAX R(II) RF OUT C Loop Out BAL ANT B 100 - 240V 50/60Hz 0.2 A +22dBu MAX BAL AF IN + 22dBu MAX ETHERNET RJ-45 L(I) R(II) L(I) R(II) RF OUT C 11 Putting the transmitter into operation Connect the output socket LOOP OUT BAL R(II) BAL AF IN R(II) of transmitter B.*

*Connect the output socket LOOP OUT BAL R(II) BAL AF IN R(II) of transmitter C. Repeat for the other transmitters. of transmitter A to the input socket of transmitter B to the input socket The AF output sockets LOOP OUT BAL L(I) and/or LOOP OUT BAL R(II) only when the transmitter is switched on and powered. will work Connecting devices to the output sockets Stereo Transmitter SR 2000 IEM FREQ RANGE-Dw FREQ RANGE-Dw 790-865 mHz 790-865 mHz ART NO 503841 ART NO 627945 SER NO 2518100095 SER NO 251810043 FMO IC 2099A-SR20x0 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY DESIGNED AND MADE IN GERMANY ANT B Loop Out A BAL B L(I) +22dBu MAX R(II) RF OUT ETHERNET RJ-45 Use a suitable cable to connect the audio input of a device (e.g. a mixing console or an additional SR 2000 IEM or SR 2050 IEM) to the output socket LOOP OUT BAL L (I) and/ or LOOP OUT BAL R (II) (see also preceding chapter). The signal received from the AF input sockets BAL AF IN L(I) and BAL AF IN R(II) is actively buffered and then routed to the output sockets LOOP OUT BAL L(I) and LOOP OUT BAL R(II) . The AF output sockets will therefore work only when the transmitter is switched on and powered. Connecting transmitters in a network You can connect several transmitters in a network. The transmitters are remote controlled via a PC running the "Wireless Systems Manager" (WSM) software.*

*This software will assist in the quick and safe configuration of multi-channel systems. The "Wireless Systems Manager" (WSM) software can be downloaded from our website at [www.sennheiser.com](http://www.sennheiser.com). Stereo Transmitter SR 2000 IEM FREQ RANGE-Dw FREQ RANGE-Dw 790-865 mHz 790-865 mHz ART NO 503841 ART NO 627945 SER NO 2518100095 SER NO 251810043 FMO IC 2099A-SR20x0 IC 2099A-SR20x0 DESIGNED AND MADE IN GERMANY DESIGNED AND MADE IN GERMANY Connect a standard network cable (at least Cat 5) to the LAN socket <sup>1</sup> of the transmitter. +22dBu MAX ANT B Loop Out A BAL Connect your transmitters to an Ethernet switch.*



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R(II) RF OUT ETHERNET RJ-45 L(I) ,<sup>1</sup> Connect a PC to the Ethernet switch. When a transmitter is properly connected to the Ethernet switch or the PC, the yellow LED , at the rear of the transmitter lights up. For further information on network operation using the WSM, refer to page 30. Connecting the mains cable CAUTION! Damage due to electric current! If you connect the transmitter to an unsuitable power supply, this can cause damage to the device. Use the supplied mains cable to connect the transmitter to the mains (100 to 240 V AC, 50 or 60 Hz). Ensure a reliable mains ground connection of the transmitter especially when you are using multi-outlet power strips or extension cables. 12 Using the transmitter Pass the mains cable through the cable grip  $\mu$ . B 100 - 240V 50/60Hz 0.2 A Connect the mains cable to the mains socket  $\frac{3}{4}$ .

Plug the mains plug into the wall socket. ETHERNET RJ-45  $\frac{3}{4}$   $\mu$  Using the transmitter To establish a transmission link, proceed as follows: 1. Switch the transmitter on (see next section). 2. Switch the EK 2000 IEM receiver on (see the instruction manual of the receiver). The transmission link is established. It is vital to observe the notes on frequency selection on page 30. If you cannot establish a transmission link between the transmitter and the EK 2000 IEM receiver, read the chapter "Synchronizing the transmitter with the EK 2000 IEM receiver" on page 30. Switching the transmitter on/off To switch the transmitter on (online operation): 0\*\* ° Briefly press the STANDBY button °. The transmitter switches on and the standard display appears. The transmitter transmits an RF signal and the transmission icon is displayed. To switch the transmitter on and to deactivate the RF signal on switch-on (offline operation): Keep the STANDBY button ° pressed until "RF Mute On?" appears on the display panel. Press the jog dial. The transmission frequency is displayed but the transmitter does not transmit an is not displayed. In addition, the display RF signal.

The transmission icon backlighting changes from orange to red and "RF Mute" flashes in alternation with the standard display. PEAK PEAK 0 -10 -20 -30 -40 AF I 0 -10 -20 -30 -40 AF II B.Ch: 5.14 \*\*2000\*\* 552.300 MHz EQ Standard -18dB Use this function to prepare a transmitter for use during live operation without causing interference to existing transmission links. To activate the RF signal: Press the STANDBY button °. "RF Mute Off?" appears on the display panel. 13 Using the transmitter Press the jog dial. The transmission icon is displayed again. To switch the transmitter to standby mode: If necessary, deactivate the lock mode (see page 14) Keep the STANDBY button ° pressed until "OFF" appears on the display panel.

The transmitter switches to standby mode. When in the operating menu, pressing the STANDBY button ° will cancel your entry (ESC function) and return you to the standard display. The STANDBY button ° is backlit in red both during operation and in standby mode. @@@@@"Locked" appears on the display panel. Turn the jog dial.

"Unlock?" appears on the display panel. Press the jog dial. The lock mode is temporarily deactivated. @@@@@"The RF signal is deactivated. The transmission icon is not displayed.

@@@To activate the RF signal: Press the STANDBY button. "RF Mute Off?" appears on the display pane. Press the jog dial. @@@@is displayed. The display Monitoring the audio signal via headphones CAUTION! Danger of hearing damage! @@@@@"There are two transfer directions: 1. @@@@2. @@@@@"Easy Setup Sync Switch all transmitters and one receiver on. On all transmitters, call up the "Easy Setup" menu item. @@@The RF signal of the transmitters is automatically deactivated. Use your receiver to perform a frequency preset scan (Scan New List).

@@@Sync Switch the transmitter and the receiver on. Press the button  $\zeta$  on the transmitter. The icon appears on the display panel of the transmitter. ´ 6 6 4 2 OFF NES PHO PHO NES 4 2 OFF Place the infra-red interface of the receiver (see the instruction manual of the receiver) in front of the infra-red interface ´ of the first transmitter. Place the infra-red interface of the receiver (see the instruction manual of the receiver) in front of the infra-red interface ´ of your transmitter. 16 Using the transmitter Easy Setup Sync The first unused frequency preset is transferred from the receiver to the transmitter. When the transfer is completed, the display panel of the transmitter displays the numbers of the transferred frequency bank and channel. Please note that the transmitter does not automatically store the frequency bank and channel setting. Sync The current frequency bank and channel setting as well as the parameters adjusted via the "Sync Settings" menu item are transferred from the transmitter to the receiver. When the transfer is completed, " " appears on the display panel of the transmitter.

The transmitter then switches back to the standard display. The transferred parameters are automatically adjusted and stored by the receiver. The transmission link between transmitter and receiver is now established. Place the infra-red interface of the diversity receiver in front of the infra-red interfaces of the remaining transmitters, one after the other. In each case, the next unused frequency preset is transferred from the receiver to the transmitter.

Either: Store the frequency bank and channel setting by pressing the jog dial on your transmitters. The RF signal is activated. You can carry out the Sync function (see right-hand column) at a later time to establish a transmission link between transmitters and receivers. Or: Immediately synchronize your receivers with your transmitters by carrying out the Sync function (see right-hand column). The icon in the left lower corner of the transmitter display indicates that the Sync function can be carried out.

The transmission link between transmitters and receivers is established. To cancel the transfer: Press the STANDBY button on the transmitter. " " appears on the display panel of the transmitter. " " also appears if no suitable receiver was found. 17 Using the operating menu Using the operating menu A special feature of the Sennheiser 2000 series is the consistent, intuitive menu structure of transmitters and receivers. As a result, adjustments to the settings can be made quickly even in stressful situations, for example on stage or during a live show or presentation. The buttons Button Press the STANDBY button Function of the button · Switches the transmitter on and off · Cancels the entry and returns to the standard display (ESC function) · Activates/deactivates the RF signal (special function, see page 14) Press the jog dial · Changes from the standard display to the operating menu · Calls up a menu item · Enters a submenu · Stores the settings and returns to the operating menu Turn the jog dial · Changes to the next/previous menu item · Changes the setting of a menu item Overview of the operating menu Main menu "Menu" Sensitivity Mode Easy Setup Frequency Preset Name Equalizer AutoLock Advanced Exit Extended menu "Advanced Menu" Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit "Sync Settings" Balance Squelch Mode High Boost Auto Lock Limiter Exit "Warnings" AF Peak RF Mute Exit 18 Using the operating menu Display Main menu "Menu" Sensitivity Mode Easy Setup Frequency Preset Name Equalizer AutoLock Advanced Exit Function of the menu item Page 22 Adjusts the input sensitivity (0 to 42 dB in steps of 3 dB) Selects mono or stereo operation Deactivates the RF signal and activates the Easy Setup Sync function Sets the frequency bank and the channel Enters a freely selectable name Changes the frequency response of the output signal using a graphic equalizer (+/- 12 dB in steps of 2.



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4 dB) Activates/deactivates the automatic lock mode Calls up the extended menu "Advanced Menu" Exits the operating menu and returns to the standard display 22 22 30 23 24 24 25 25 25 26 27 28 28 28 28 29 29 Extended menu "Advanced Menu" Tune Sets the transmission frequencies for the frequency banks "U1" to "U6" Sets the frequency bank, the channel and the transmission frequency (frequency banks "U1" to "U6") Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Adjusts the receiver parameters and activates/deactivates their transfer to the receivers Adjusts the transmission power (Low, Standard or High) Calls up "Warnings" (see below) Adjusts the contrast of the display panel (adjustable in 16 steps) Resets the settings made in the operating menu Adjusts the IP address of the transmitter Software Revision Displays the current software revision Exit Exits the extended menu "Advanced Menu" and returns to the main menu "Warnings" Activates/deactivates warnings (color change and warning messages) AF Peak RF Mute Exit Audio overmodulation RF signal is deactivated Exits "Warnings" and returns to the extended menu "Advanced Menu" 28 19 Using the operating menu Working with the operating menu

If the lock mode is activated, you have to deactivate it In order to be able to work with the operating menu (see page 14). By way of example of the "Frequency Preset" menu, this section describes how to use the operating menu. Changing from the standard display to the operating menu Press the jog dial.

The standard display is replaced by the main menu. The last selected menu item is displayed. Menu Sensitivity Mode Easy Setup Frequency Preset Name Equalizer Auto Lock Advanced Exit Selecting a menu item Turn the jog dial to change to the "Frequency Preset" menu item. The current setting of the selected menu item is displayed: PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Menu Easy Setup Frequency Preset Name B. Ch: 1. 1 Changing and storing settings PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Menu Easy Setup Frequency Preset Name B.Ch: 1. 1 PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Frequency Preset B.Ch: 1. 1 519.

150 MHz; PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Frequency Preset B.Ch: 2. 3 525.450 MHz Call up "Frequency Preset" Select the frequency bank and confirm "Stored" Select the channel; store the setting Press the jog dial to call up the menu item. Turn the jog dial to set the frequency bank. Press the jog dial to confirm your selection. Turn the jog dial to set the channel. Press the jog dial to store the setting. 20 Using the operating menu By briefly turning the jog dial to the left or right, the display jumps either forwards or backwards to the next menu item or setting. If you turn the jog dial to the left or right and hold it in this position, the display cycles continuously ("fast search" function).

Canceling an entry Press the STANDBY button to cancel the entry. The standard display appears on the display panel. To subsequently return to the last edited menu item: Press the jog dial repeatedly until the last edited menu item appears. Menu Sensitivity Mode Easy Setup Frequency Preset Name Equalizer Auto Lock Advanced Exit Exiting a menu item Change to the "Exit" menu item. Confirm your selection. You return to the next higher menu level or you exit the operating menu and return to the standard display. To directly return to the standard display: Press the STANDBY button. 21 Adjusting settings via the operating menu Adjusting settings via the operating menu The main menu "Menu" Menu Sensitivity Mode Easy Setup Frequency Preset Name Equalizer Auto Lock Advanced Exit Adjusting the input sensitivity "Sensitivity" PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Menu Exit Sensitivity Mode 18dB PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Sensitivity 18 dB PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Sensitivity 18 dB 15 Call up "Sensitivity" Select the desired setting "Stored" Store the setting Adjustment range: 0 to 48 dB, adjustable in steps of 3 dB Via the "Sensitivity" menu item, you can adjust the transmitter's input sensitivity to the output signal of the audio source. The adjusted input sensitivity is common for both audio inputs of the transmitter. The audio level display "AF" always indicates the audio level, even if the transmitter is muted, e.

g. allowing you to check the adjusted sensitivity before live operation. Input sensitivity is adjusted ... too high Effect/display Close talking distances, speakers with loud voices or loud music passages cause overmodulation in the transmission link. The audio level display "AF I" and/or "AF II" the duration of the overmodulation.

shows full deflection for shows full deflection ... correctly ..

. too low The audio level display "AF I" and/or "AF II" only during the loudest passages. The transmission link is undermodulated. This results in a signal with high background noise. Menu Sensitivity Mode Easy Setup Frequency Preset Name Equalizer Auto Lock Advanced Exit Selecting mono or stereo operation "Mode" PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Menu Sensitivity Mode Easy Setup Stereo PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Mode Stereo PEAK 0 -10 -20 -30 -40 AF Mode Mono 18 dB Call up "Mute Mode" Select the desired setting "Stored" Store the setting 22 Adjusting settings via the operating menu Select "Stereo" if you want to transmit the audio signals from the left and right audio input (BAL AF IN L (I) and BAL AF IN R (II) ).

Select "Mono" if you only want to transmit the audio signal from the left audio input BAL AF IN L (I) . During mono operation, you have to deactivate the pilot tone evaluation on your EK 2000 IEM receiver in order to ensure that the receiver outputs the same signal on channel I and II. Menu Sensitivity Mode Easy Setup Frequency Preset Name Equalizer AutoLock Advanced Exit Starting synchronization "Easy Setup" For a detailed description of the Easy Setup function, refer to page 15. PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Menu Mode Easy Setup Frequency Preset PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Easy Setup sync Call up "Easy Setup" Infra-red transmission is awaited Call up "Easy Setup" to transfer an unused frequency preset from the EK 2000 IEM receiver to the transmitter via the infra-red interface (see page 15).



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The RF signal of the transmitter is automatically deactivated ("RF Mute" flashes) and the transmitter awaits the data transfer. If you do not want to start the transfer or to cancel the transfer: Press the STANDBY button. Menu Sensitivity Mode Easy Setup Frequency Preset Name Equalizer Auto Lock Advanced Exit Selecting the frequency bank and the channel manually "Frequency Preset" PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Menu Easy Setup Frequency Preset Name B.Ch: 1. 1 PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Frequency Preset B.Ch: 1.

1 519.150 MHz PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Frequency Preset B.Ch: 2. 3 525.450 MHz Call up "Frequency Preset" Select the frequency bank and confirm "Stored" Select the channel; store the setting When you are in the "Frequency Preset" menu item, the RF signal is deactivated. Overview of the frequency banks and channels: Frequency bank "1" to "20" "U1" to "U6" Channels up to 32 per frequency bank up to 32 per frequency bank Type System bank: frequencies are factory-preset User bank: frequencies are freely selectable (see page 25) 23 Adjusting settings via the operating menu When setting up multi-channel systems, please observe the following: Only the factory-preset frequencies within one frequency bank ("1" to "20") are intermodulation-free. It is vital to observe the notes on frequency selection on page 30. Menu Sensitivity Mode Easy Setup Frequency Preset Name Equalizer Auto Lock Advanced Exit Entering a name "Name" PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Menu Frequency Preset Name Equalizer Lichaël PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Name Lichaël PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Name Michae l Call up "Name" Enter a character and confirm "Stored" Enter a character; store the setting Via the "Name" menu item, you can enter a freely selectable name (e.g. the name of the performer) for the transmitter.

The name is displayed on the standard display. The name can consist of up to 8 characters such as: · letters (without pronunciation marks), · numbers from 0 to 9, · special characters and spaces. To enter a name, proceed as follows: Turn the jog dial to select a character. Press the jog dial to change to the next segment/character or to store the complete entry. Menu Sensitivity Mode Easy Setup Frequency Preset Name Equalizer Auto Lock Advanced Exit Using the equalizer PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Menu Name Equalizer Auto Lock EQ PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Equalizer EQ active PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Equalizer EQ active Call up "Equalizer" Select the desired setting and confirm "Stored" Select the desired setting; store the setting Adjustment range: +/- 12 dB, adjustable in steps of 2.

4 dB You can change the treble and bass of the audio output signal in 5 frequency ranges. Display Frequency range 20 - 100 Hz 100 - 300 Hz 24 Adjusting settings via the operating menu Display Frequency range 300 Hz - 1 kHz 1 - 3 kHz 3 - 10 kHz To change the treble and bass of the audio output signal, proceed as follows: Turn the jog dial to boost or cut the frequency range. Press the jog dial to change to the next frequency range or to store the complete entry. Menu Sensitivity Mode Easy Setup Frequency Preset Name Equalizer Auto Lock Advanced Exit Activating/deactivating the automatic lock mode "Auto Lock" PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Menu Equalizer Auto Lock Advanced Inactive PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Auto Lock Inactive PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Auto Lock Active 18 dB Call up "Auto Lock" Select the desired setting "Stored" Store the setting The lock mode prevents that the plug-on transmitter is accidentally switched off or programmed during operation. The lock mode icon on the standard display indicates that the lock mode is activated.

For information on how to use the lock mode, refer to page 14. Turn the jog dial to select the desired setting. The extended menu "Advanced Menu" Advanced Menu Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit Setting the transmission frequencies and the frequency banks "U1" to "U6" "Tune" When you have selected one of the system banks and then select the "Tune" menu, the transmitter automatically switches to channel 1 of the frequency bank "U1". In this case, "U1.1" briefly appears on the display panel. Upon delivery, the channels of the frequency banks "U1" to "U6" are not assigned a transmission frequency. When you are in the "Tune" menu item, the RF signal is deactivated. 25 Adjusting settings via the operating menu Via the "Tune" menu item, you can: 1. set a transmission frequency to be stored in the current channel of the frequency bank ("U1" to "U6") 2. or select a frequency bank ("U1" to "U6") and a channel and assign this channel a transmission frequency.

Advanced Menu Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit Setting a transmission frequency for the current channel Turn the jog dial until the "Tune" menu item appears. Press the jog dial. The frequency selection appears. PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Advanced Menu Exit Tune Sync Settings 532.300 MHz PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Tune 552.300 MHz B.Ch: U1. 1 PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Tune 553.300 MHz B.Ch: U1.

1 Call up "Tune" (special function) Select the MHz value and confirm "Stored" Select the kHz value; store the setting It is vital to observe the notes on frequency selection on page 30. Set the desired frequency. Press the jog dial. Your settings are stored. The "Tune" menu item appears. Advanced Menu Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit Selecting a frequency bank and a channel and assigning this channel a transmission frequency Turn the jog dial until the "Tune" menu item appears. Keep the jog dial pressed until the frequency bank selection appears. PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Advanced Menu Exit Tune Sync Settings 552.300 MHz PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Tune 552.300 MHz B.Ch: U1. 1 PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Tune 552.



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300 MHz B.Ch: U2. 6 Call up "Tune" (special function) Select the frequency bank and confirm Select the channel; store the setting "Stored" Set the desired frequency bank. Press the jog dial. The channel selection appears. Set the desired channel. 26 Adjusting settings via the operating menu Press the jog dial. The frequency selection appears.

Set the desired frequency. Press the jog dial. Your settings are stored. The "Tune" menu item appears. Advanced Menu Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit Adjusting the receiver parameters and activating/deactivating their transfer to the receiver - "Sync Settings" Via the "Sync Settings" submenu, you can adjust the following parameters for the EK 2000 IEM receiver. Menu item Balance Squelch Mode High Boost Auto Lock Limiter Exit Transferred receiver parameter Balance or Focus setting (" -15"/"+15") Squelch setting ("5 dB" ... "25 dB") Audio mode setting ("Stereo"/"Focus") Treble boost setting for output signal ("flat"/"High boost" (8 dB at 10 kHz)) Lock mode setting ("Active"/"Inactive") Limiter setting (" -18 dB", " -12 dB", " -6 dB", "Off") Exits the "Sync Settings" submenu and returns to the extended menu "Advanced Menu" You can specify for each parameter whether it is to be transferred to the receiver during synchronization. Parameter PEAK Transfer is .

... ..

deactivated 40 30 20 10 RF 0 -10 -20 -30 -40 AF -60 dB Sync PEAK ... activated -60 dB 40 30 20 10 RF 0 -10 -20 -30 -40 AF Sync By pressing the  $\zeta$  button on the transmitter, the parameters are transferred from the transmitter to the receiver (see page 15). 27 Adjusting settings via the operating menu Advanced Menu Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit Adjusting the transmission power "RF Power" PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Advanced Menu Sync Settings RF Power Warnings Standard PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF RF Power Standard PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF RF Power Low Call up "RF Power" Select the desired setting "Stored" Store the setting Via the "RF Power" menu item, you can adjust the transmission power in three steps (Low, Standard, High). It is vital to observe the notes on the enclosed frequency information sheet! Advanced Menu Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit Activating/deactivating warning messages "Warnings" Via the "Warnings" menu item, you can activate or deactivate different warning messages. Warning message with color change on the standard display "AF Peak" "RF Mute" Setting AF Peak RF Mute Trigger Audio overmodulation RF signal is deactivated (see page 14) Adjusting the contrast of the display panel "LCD Contrast" You can adjust the contrast of the display panel in 16 steps. Advanced Menu Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit Resetting the settings made in the operating menu "Reset" PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Advanced Menu LCD Contrast Reset IP-Address PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Reset Yes Call up "Reset" Select the desired setting; apply the setting "Stored" When resetting the settings made in the operating menu, only the selected settings for the pilot tone and for the frequency banks "U1" to "U6" remain unchanged. For an overview of the factory-preset default settings, refer to the enclosed frequency information sheet. 28 Adjusting settings via the operating menu Advanced Menu Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit Adjusting the network configuration "IP Address" PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF Advanced Menu Reset IP-Address Software Revision 192.168.178.100 PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF IP-Address Manual 192.168.178.

100 00-11-D8-B0-F4-33 PEAK PEAK 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF AF IP-Address Manual 192.168.178.100 00-11-D8-B0-F4-33 Call up "IP-Address" Select the mode and confirm "Stored" Enter the IP address; store the setting You can either automatically allocate or manually enter an IP address. This menu item also shows the transmitter's unique and unchangeable MAC address. In order to ensure safe communication between transmitters in multi-channel systems (see page 30), we recommend using automatic allocation of IP addresses. Displaying the software revision "Software Revision" You can display the current software revision of the transmitter. For information on software updates, visit the corresponding product page on our website at [www.sennheiser.com](http://www.sennheiser.com).

29 Synchronizing the transmitter with the EK 2000 IEM receiver Synchronizing the transmitter with the EK 2000 IEM receiver When synchronizing your transmitter with the EK 2000 IEM receiver, please observe the following: Only use a transmitter and a receiver from the same frequency range (see the type plates on the transmitter and the receiver). Make sure that the desired frequencies are listed in the enclosed frequency information sheet. You can also contact your Sennheiser partner who will be pleased to calculate intermodulation-free frequencies for you. Make sure that the desired frequencies are approved and legal in your country and, if necessary, apply for an operating license. The frequency information sheet can also be downloaded from the corresponding product page on our website at [www.sennheiser.com](http://www.sennheiser.com).

Synchronizing the transmitter with an EK 2000 IEM receiver individual operation Upon delivery, transmitter and receiver are synchronized with each other. If, however, you cannot establish a transmission link between transmitter and receiver, you have to synchronize the channels of the devices:

First carry out the Easy Setup Sync function (see table on page 16, left-hand column). The transmitter is set to a suitable frequency.

Then carry out the Sync function (see table on page 16, right-hand column). This establishes a transmission link between the transmitter and the receiver. Alternatively, you can set the channel on the transmitter manually: Make sure that you set the transmitter to the same frequency bank and the same channel as the receiver. Synchronizing transmitters with EK 2000 IEM receivers multichannel operation Network operation In multi-channel operation, the transmitters are remote controlled via a PC running the "Wireless Systems Manager" (WSM) software.



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Advantages of controlling the transmitters via the "Wireless Systems Manager" (WSM) software: · Detailed overview of all transmission and receiving channels · Remote control of all transmitters in the network · Combination of transmitters of different frequency ranges (see page 4). Stereo Transmitter SR 2050 IEM Stereo Transmitter SR 2050 IEM Connect your transmitters and your PC in a network (see page 12). Switch your transmitters and your PC on.

Launch the "Wireless Systems Manager" (WSM) software. To set up your multi-channel system, proceed as described in the instruction manual of the "Wireless Systems Manager" (WSM) software. Stereo Transmitter SR 2050 IEM 30 Synchronizing the transmitter with the EK 2000 IEM receiver Operation without network First carry out the Easy Setup Sync function (see table on page 16, left-hand column).

The transmitter is set to a suitable frequency. Then carry out the Sync function once for each transmitter/receiver pair (see table on page 16, right-hand column). This establishes a transmission link between the transmitter and the receiver. Using freely selectable transmission frequencies You can also freely select the frequencies and store these frequencies in the frequency banks "U1" to "U6". If you want to use the frequency banks "U1" to "U6": Make sure to use transmitters and receivers from the same frequency range (see page 4 and the type plates of the devices). To ensure that the desired frequencies are intermodulation-free: Contact your Sennheiser partner (see [www.sennheiser.com](http://www.sennheiser.com)). Set each transmitter to the same frequency bank. On one of the transmitters, select a channel within this frequency bank (see page 25).

Assign this channel one of the calculated transmission frequencies (see page 25). Synchronize a receiver with your transmitter ( OR Manually set the receiver to the same frequency bank, channel and frequency that you set on the transmitter. Repeat for the remaining transmitters and receivers as described above. , see page 16). 31 Cleaning the transmitter Cleaning the transmitter CAUTION! Liquids can damage the electronics of the transmitter! Liquids entering the housing of the transmitter can cause a short-circuit and damage the electronics.

Keep all liquids away from the transmitter. Do not use any solvents or cleansing agents. Before cleaning, disconnect the transmitter from the mains. Use a cloth to clean the transmitter from time to time. 32 Recommendations and tips Recommendations and tips .

.. for optimum reception · Transmission range depends to a large extent on location and can vary from about 10 m to about 150 m. There should be a "free line of sight" between transmitting and receiving antennas. · To avoid overloading the receiver, observe a minimum distance of 5 m between transmitting and receiving antennas. ... for multi-channel operation · Each of the frequency banks "1" to "20" accommodates factory-preset receiving frequencies which are intermodulation-free. For possible frequency combinations, please refer to the supplied frequency information sheet.

· The channels in the frequency banks "U1" to "U6" can be assigned freely selectable frequencies (see page 31). @@@@No. @@@@Synchronize the transmitter with the receiver (see page 15). Activate the RF signal (see page 14). Reduce the distance between receiver and transmitter. Reposition the antennas. Increase the transmission power (see page 19). Reduce the squelch threshold (see the instruction manual of the receiver). RF signal available, no audio signal at the receiver No input signal at the transmitter Very low input signal Check the audio level on the transmitter display (see page 7) Check the audio level on the transmitter display (see page 7), increase the level of the input signal or adjust the input sensitivity (see page 19). Audio signal has a high level of Transmitter sensitivity is adjusted Adjust the transmitter sensitivity correctly background noise too low (see page 19).

Audio signal is distorted If "AF PEAK" additionally appears on the transmitter display: transmitter sensitivity is adjusted too high Receiver's audio output level is adjusted too high Adjust the transmitter sensitivity correctly (see page 19). Reduce the audio output level of the receiver. 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](http://www.sennheiser.com).

com under "Service & Support". 35 Specifications Specifications RF characteristics Frequency ranges Transmission frequencies 516558, 558626, 626698, 718790, 790865 MHz (Aw to Dw, Gw, see page 4) up to 3,000 frequencies, tuneable in steps of 25 kHz 20 frequency banks, each with up to 32 factory-preset channels 6 frequency banks, each with up to 32 user programmable channels Switching bandwidth Frequency stability Antenna output RF output power at 50 up to 75 MHz  $\pm 10$  ppm (10 °C to +55 °C) BNC socket, 50 typ. 10/30/50 mW (Low/Standard/High), switchable AF characteristics Modulation Compressor system Nominal/peak deviation MPX pilot tone (frequency/deviation) AF frequency response AF input BAL AF IN L (I)/BAL AF IN R (II) Max. input level THD (at 1 kHz and nominal deviation) Signal-to-noise ratio at nominal load and peak deviation AF output LOOP OUT BAL L (I)/LOOP OUT BAL R (II) wideband FM stereo (MPX pilot tone) Sennheiser HDX  $\pm 24$  kHz/ $\pm 48$  kHz 19 kHz/ $\pm 5$  kHz 25 Hz to 15 kHz 2 x XLR-3/4" (6.3 mm) jack combo socket, electronically balanced +22 dBu < 0.

9 % > 90 dB 1/4" (6.3 mm) stereo jack socket, balanced Overall device Temperature range Power supply Current consumption Dimensions Weight 10 °C to + 55 °C 100240 V~ SR 2000: 0.1 A SR 2050: 0.2 A approx. 217 x 483 x 43 mm SR 2000: approx. 2500 g SR 2050: approx. 2700 g 36 Specifications In compliance with Europe EMC Radio Safety EN 301489-1/-9 EN 300422-1/-2, EN 300454-1/-2 EN 60065 Approved by Canada Industry Canada RSS 123 IC: 2099A-SR2000 and IC: 2099A-SR2050 limited to 806 MHz USA FCC-Part 74 FCC-ID: DMOSR2000 and DMOSR2050 limited to 698 MHz Connector assignment Audio 1/4" (6.3 mm) stereo jack plug, balanced (BAL AF IN/LOOP OUT) XLR-3F connector, balanced (BAL AF IN) + 2 3 1 1/4" (6.3 mm) mono jack plug, unbalanced (BAL AF IN/LOOP OUT) 1/4" (6.3 mm) stereo jack plug for headphone output 37 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](http://www.sennheiser.com).



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sennheiser.com or contact your Sennheiser partner. In compliance with the following requirements · RoHS Directive (2002/95/EC) · WEEE Directive (2002/96/EC) Please dispose of the transmitter at the end of its operational lifetime by taking it to your local collection point or recycling center for such equipment. CE Declaration of Conformity · 0682 The declarations are available at [www.sennheiser.com](http://www.sennheiser.com). Before putting the device into operation, please observe the respective country-specific regulations. · R&TTE Directive (1999/5/EC), Low Voltage Directive (2006/95/EC) Statements regarding FCC and Industry Canada 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 device 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. Before putting the device into operation, please observe the respective country-specific regulations! 38 Index Index A activating/deactivating AF Peak (warning message) 28 lock mode (Auto Lock) 25 RF Mute (warning message) 28 warning messages (Warnings) 28 adjusting contrast (LCD Contrast) 28 input sensitivity (Sensitivity) 22 network configuration (IP Address) 29 receiver parameters (Sync Settings) 27 transmission power (RF Power) 28 Advanced Menu (extended menu) overview 19 settings 25 AF Peak (warning message) 19 antenna connecting a remote antenna 9 connecting the AC 3200 antenna combiner connecting the rod antenna to the rear 9 mounting the rod antenna to the front 9 antenna front mount kit audio signal daisy chaining 11 monitoring 15 audio source, connecting 11 25 Auto Lock (activating/deactivating the lock mode) C channel assigning a frequency 26 display 7 overview 4 selecting (Easy Setup) 30 selecting (Frequency Preset) selecting (Tune) 25 connecting audio source 11 mains cable 12 mixing console 11 remote antenna 9 transmitters in a network D 9 overview 7 PEAK (overmodulation) transmission icon 7 transmission power 7 E Easy Setup Sync 15, 16, 30 equalizer display of equalizer setting setting 24 7 7 extended menu (Advanced Menu) overview 19 settings 25 F factory default settings (resetting the settings made in the operating menu) 28 frequency ~ ranges 4 important notes on frequency selection 30 preset frequencies 4 selecting ~ presets 23 setting a transmission frequency 25 using freely selectable transmission frequencies frequency bank ~ system 4 display 7 overview 4 selecting (Easy Setup) 30 selecting (Frequency Preset) 9 31 23 Frequency Preset (selecting a frequency bank/ channel) 23 I infra-red transmission 15 29 IP-Address (adjusting the network configuration) L LCD Contrast (contrast of the display panel) lock mode activating/deactivating (Auto Lock) Locked (lock mode activated) M 14 25 28 23 12 main menu (Menu) overview 19 settings 22 Menu (main menu) overview 19 settings 22 Mode (mono/stereo selection) 22 modulation (input sensitivity/adjusting the sensitivity) 22 39 displays adjusting the contrast of the display panel (LCD Contrast) 28 AF (audio level) 7 AF PEAK (overmodulation) 7 frequency 7 input sensitivity 7 Index mono operation 6, 23 30 30 24 29 13 13 multi-channel operation multi-channel system N Name (entering a name) network configuration, adjusting O offline operation (RF signal deactivated) online operation (RF signal activated) operating menu overview 18 using 20 R receiver, synchronizing with transmitter transmitter cleaning 32 fitting the device feet 8 mounting into a 19" rack 8 setting up on a flat surface 8 switching off 13, 14 switching on 13 switching to standby 13 synchronizing with receiver 15, 30 troubleshooting 35 Tune (setting the transmission frequencies and frequency banks) 25 U Unlock (deactivating the lock mode) 14 15, 30 Reset (resetting the settings made in the operating menu) 28 RF Mute (warning message) 13, 15, 19, 35 13, 15 13, 14 RF Mute Off (activating the RF signal) RF Mute On (deactivating the RF signal) RF signal activating 13 deactivating on switch-on S using equalizer 24 operating menu W 20 Warnings (warning messages) activating/deactivating 28 overview 19 WSM (Wireless Systems Manager) 12, 30 13 selecting channel (Frequency Preset) 23 frequency bank (Frequency Preset) 23 mono or stereo operation (Mode) 22 Sensitivity (adjusting the input sensitivity) Software Revision (displaying the software revision) 29 standby Sync 14 15, 16, 30 22 Sync Settings (adjusting transferable receiver settings) 27 synchronizing (transmitter/receiver) T transmission frequency selecting (Frequency Preset) setting (Tune) 25 transmission power, optimizing transmission link 30 23, 25 33 15, 30 40 Sennheiser electronic GmbH & Co. KG Am Labor 1, 30900 Wedemark, Germany [www.sennheiser.com](http://www.sennheiser.com) Printed in Germany Publ. 06/10 529682/A02 .



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