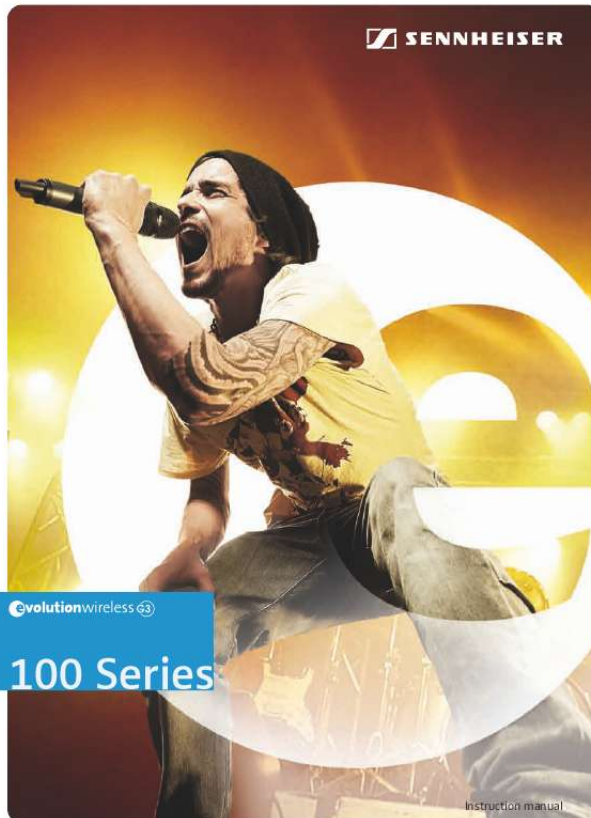




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER EW 112-P G3. You'll find the answers to all your questions on the SENNHEISER EW 112-P G3 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SENNHEISER EW 112-P G3
User guide SENNHEISER EW 112-P G3
Operating instructions SENNHEISER EW 112-P G3
Instructions for use SENNHEISER EW 112-P G3
Instruction manual SENNHEISER EW 112-P G3



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Manual abstract:

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.. 4 The frequency bank system ...

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.. 4 Product overview

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.. 5 Overview of the EM 100 receiver

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... @@@@9 Overview of the displays of the SKM 100 radio microphone ..

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.... 10 Putting the devices into operation

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. 11 EM 100 receiver

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11 SK 100 bodypack transmitter

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.... 13 SKM 100 radio microphone .

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... 15 Using the devices ..

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. 17 Switching the devices on/off

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.. 17 Synchronizing a transmitter with the receiver ...

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.. 20 Deactivating the lock mode temporarily ...

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..... 21 Muting the audio signal or deactivating the RF signal ..

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..... 27 Specifications ..

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... 31 Manufacturer Declarations ..

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Equalizer Auto Lock Advanced Exit „Easy Setup“ Reset List Current List Scan New List Exit Tune Extended menu "Advanced Menu" Guitar Tuner Pilot Tone LCD Contrast Reset Software Revision Exit Selects the mode of the guitar tuner function Activates/deactivates the pilot tone evaluation Adjusts the contrast of the display panel Resets the receiver Displays the current software revision Exits the extended menu "Advanced Menu" and returns to the main menu SK 100 and SKM 100 SK 100 Main menu "Menu" Sensitivity Frequency Preset Name Auto Lock Advanced Exit SKM 100 Main menu "Menu" Sensitivity Frequency Preset Name Auto Lock Advanced Exit Extended menu "Advanced Menu" Tune Mute Mode Cable Emulation Pilot Tone LCD Contrast Reset Software Revision Exit Extended menu "Advanced Menu" Tune Pilot Tone LCD Contrast Reset Software Revision Exit 26 Cleaning the devices Display Function of the menu item Adjusts the sensitivity "AF" Changes the frequency bank and the channel Enters a freely selectable name Activates/deactivates the automatic lock mode Calls up the extended menu "Advanced Menu" Exits the operating menu and returns to the current standard display Sets the transmission frequencies for the frequency bank "U" Special function: Sets a channel and a transmission frequency for the frequency bank "U" Select this menu item and call it up by pressing the SET button (SK)/the multi-function switch (SKM) until the channel selection appears.

Main menu Sensitivity Frequency Preset* Name* Auto Lock Advanced Exit Tune Extended menu "Advanced Menu" Mute Mode (SK only) Pilot Tone* LCD Contrast Reset Software Revision Exit Sets the mode for the MUTE switch Activates/deactivates the pilot tone transmission Adjusts the contrast of the display panel Resets the bodypack transmitter/radio microphone Displays the current software revision Exits the extended menu "Advanced Menu" and returns to the main menu Cable Emulation (SK only) Emulates guitar cable lengths/guitar cable capacities * For information on the synchronization of transmitters with receivers, refer to 20. Cleaning the devices CAUTION! Liquids can damage the electronics of the devices! Liquids entering the housing of the devices can cause a short-circuit and damage the electronics. Keep all liquids away from the devices. EM 100 Before cleaning, disconnect the device from the mains. Use a slightly damp cloth to clean the receiver from time to time. Do not use any solvents or cleansing agents. SK 100 Use a slightly damp cloth to clean the bodypack transmitter from time to time. Do not use any solvents or cleansing agents. SKM 100 Use a slightly damp cloth to clean the radio microphone from time to time. Do not use any solvents or cleansing agents.

27 Cleaning the devices To clean the radio microphone's sound inlet basket (MMD 835-1, MMD 845-1, MMD 935-1, MMD 945-1, MME 865-1): Unscrew the upper sound inlet basket from the microphone head by turning it counterclockwise. CAUTION! Liquids can damage the microphone head! Liquids can damage the microphone head. Only clean the upper sound inlet basket. Remove the foam insert. There are two ways to clean the sound inlet basket: Use a slightly damp cloth to clean the upper sound inlet basket from the inside and outside or scrub with a brush and rinse with clear water. If necessary, clean the foam insert with a mild detergent or replace the foam insert. Dry the upper sound inlet basket. Dry the foam insert. Reinsert the foam insert. Replace the sound inlet basket on the microphone head and screw it tight.

You should also clean the contact rings of the microphone head from time to time: Wipe the contact rings of the microphone head with a dry cloth. For information on cleaning the MMK 965-1 microphone head, refer to its instruction manual. If a problem occurs ... EM 100 Problem Receiver cannot be operated, "Locked" appears on the display panel No operation indication No RF signal Possible cause Lock mode is activated Possible solution Deactivate the lock mode (see page 21). No mains connection Transmitter and receiver are not on the same channel Transmitter is out of range Check the connections of the mains unit. Set the transmitter and receiver to the same channel. To do so, use the synchronization function (see page 20) Check the squelch threshold setting (see page 25). Reduce the distance between transmitter and receiving antennas.

28 Cleaning the devices Possible solution Cancels the muting (see page 22). Switch the pilot tone transmission on the transmitter on (see page 27). Switch the pilot tone evaluation on the receiver off (see page 26). Receiver's squelch threshold is adjusted Reduce the squelch threshold too high (see page 25). Reposition the antennas. Audio signal has a high Transmitter sensitivity is adjusted too Adjust the transmitter sensitivity correctly level of background noise low/high ("Sensitivity", see page 27). Audio signal is distorted Transmitter sensitivity is adjusted too Adjust the transmitter sensitivity correctly high ("Sensitivity", see page 27). Receiver's audio output level is adjusted Reduce the audio output level too high ("AF Out", see page 26). No access to a certain During scanning, an RF signal has been Set the transmitter operating on this channel to channel detected on this channel and the channel a different channel and redo the frequency has been locked preset scan (see page 26). During scanning, a transmitter of your Switch the transmitter off and redo the system operating on this channel has frequency preset scan (see page 26).

not been switched off None of the diversity Receiver's squelch threshold is adjusted Reduce the squelch threshold (see page 25). displays I or II appears on too high the display panel Transmitter's RF signal is too weak Increase the transmission power of the transmitter. Reduce the distance between transmitter and receiver. Antennas are not connected correctly Check the antenna cables or the antennas. During the soundcheck, One of the antennas is not connected Check the antenna cable or the antenna.

only one diversity display correctly (I or II) appears on the Antennas are not optimally positioned Reposition the antennas. @@@@ RF signal is deactivated ("RF Mute") Activate the RF signal (see page 23). Cancels the muting (see page 22). Reduce the squelch threshold setting on the receiver. Activate or deactivate the pilot tone transmission (see page 27).

Adjust the input sensitivity (see page 27). RF signal available, no audio signal, "MUTE" appears on the display panel of the receiver Bodypack transmitter/radio microphone is muted (MUTE) Receiver's squelch threshold is adjusted too high Bodypack transmitter/radio microphone doesn't transmit a pilot tone Audio signal has a high Bodypack transmitter's/radio microphone level of background noise phone's sensitivity is adjusted too low/ or is distorted too high 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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To find a Sennheiser partner in your country, search at www.sennheiser.com under "Service & Support". 30 Specifications Specifications EM 100 RF characteristics Modulation Receiving frequency ranges Receiving frequencies wideband FM 516558, 566608, 626668, 734776, 780822, 823865 MHz (A to E, G, see page 4) 1,680 frequencies, tuneable in steps of 25 kHz 20 frequency banks, each with up to 12 factory-preset channels, intermodulation-free 1 frequency bank with up to 12 user programmable channels 42 MHz ± 24 kHz / ± 48 kHz true diversity < 2,5 V for 52 dBA rms S/N typ. 65 dB typ. 65 dB 70 dB Off; Low: 5 dBV, Middle: 15 dBV, High: 25 dBV can be switched off 2 BNC sockets Switching bandwidth Nominal/peak deviation Receiver principle Sensitivity (with HDX, peak deviation) Adjacent channel rejection Intermodulation attenuation Blocking Squelch Pilot tone squelch Antenna inputs AF characteristics Compander system EQ presets (switchable, affect the line and monitor outputs): Preset 1: "Flat" Preset 2: "Low Cut" Preset 3: "Low Cut/High Boost" Preset 3: "High Boost" S/N ratio (1 mV, peak deviation) THD AF output voltage (at peak deviation, 1 kHz AF) Adjustment range of audio output level Sennheiser HDX 3 dB at 180 Hz 3 dB at 180 Hz +6 dB at 10 kHz +6 dB at 10 kHz 110 dBA 0.9% 1/4" (6.3 mm) jack socket (unbalanced): +12 dBu XLR socket (balanced): +18 dBu 48 dB (in steps of 3 dB) +6 dB gain reserve 10°C to + 55°C 12 V 300 mA approx.

190 x 212 x 43 mm approx. @@@@ @ @ @ @ 180 mA (30 mW) 25 A typ. 8 hrs SK: approx. 82 x 64 x 24 mm SKM: approx. 50 x 265 mm SK: approx. 160 g SKM: approx. 450 g Overall device Temperature range Power supply Nominal voltage Current consumption: · at nominal voltage · with switched-off transmitter Operating time Dimensions Weight (incl. batteries) In compliance with (SK and SKM) Europe: EMC Radio Safety EN 301489-1/-9 EN 300422-1/-2 EN 60065, EN 62311 (SAR) Approved by (SK) Canada: USA: Industry Canada RSS 210, IC 2099A-G3SK limited to 806 MHz FCC-Part 74, FCC-ID: DMO G3SK limited to 698 MHz Approved by (SKM) Canada: USA: Industry Canada RSS 210, IC: 2099A-G3SKMEM limited to 806 MHz FCC-Part 74, FCC-ID: DMO G3SKMEM limited to 698 MHz 33 Specifications Microphones (SK 100) ME 2 Microphone type Sensitivity Pick-up pattern Max. SPL condenser 20 mV/Pa omni-directional 130 dB SPL ME 3 condenser 1.6 mV/Pa cardioid 150 dB SPL ME 4 condenser 40 mV/Pa cardioid 120 dB SPL Microphone heads (SKM 100) MMD 835-1 Radio microphone type Sensitivity Pick-up pattern Max.

SPL dynamic 2.1 mV/Pa cardioid 154 dB SPL MMD 845-1 dynamic 1.6 mV/Pa super-cardioid 154 dB SPL MME 865-1 condenser 1.6 mV/Pa super-cardioid 152 dB SPL Polar diagrams and frequency response curves of the microphone heads (SKM 100) Polar diagram MMD 835-1 30° 0° 5 10 60° 15 20 25 90° dB 90° 60° 30° Frequency response curve MMD 835-1 dBV -30 -40 -50 -60 120° 120° -70 -80 50 100 200 500 1k 2k 5k 10k 20k 125 Hz 250 Hz 500 Hz 1000 Hz 150° 180° 150° 2000 Hz 4000 Hz 8000 Hz 16000 Hz Hz Polar diagram MMD 845-1 30° 0° 5 10 60° 15 20 25 90° dB 90° 60° 30° Frequency response curve MMD 845-1 dBV -30 -40 -50 -60 120° 120° -70 125 Hz 250 Hz 500 Hz 1000 Hz 150° 180° 150° 2000 Hz 4000 Hz 8000 Hz 16000 Hz -80 50 100 200 500 1k 2k 5k 10k 20k Hz 34 Manufacturer Declarations Polar diagram MME 865-1 30° 0° 5 10 60° 15 20 25 90° dB 90° 60° 30° Frequency response curve MME 865-1 dBV -30 -40 -50 -60 120° 120° -70 125 Hz 250 Hz 500 Hz 1000 Hz 150° 180° 150° 2000 Hz 4000 Hz 8000 Hz 16000 Hz -80 50 100 0° 200 90° 500 1k 2k 5k 10k 20k Hz Manufacturer Declarations Warranty Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on this product.

For the current warranty conditions, please visit our web site at www.sennheiser.com or contact your Sennheiser partner. In compliance with the following requirements · RoHS Directive (2002/95/EU) · WEEE Directive (2002/96/EU) Please dispose of these products at the end of their operational lifetime by taking it to your local collection point or recycling center for such equipment. · Battery Directive (2006/66/EU) The supplied batteries or rechargeable batteries of the transmitters can be recycled.

Please dispose of them as special waste or return them to your specialist dealer. In order to protect the environment, only dispose of exhausted batteries. CE Declaration of Conformity · EM 100: SK / SKM 100: 0682 0682 · R&TTE Directive (1999/5/EU), EMC Directive (2004/108/EU), Low Voltage Directive (2006/95/EU) The declarations are available at www.sennheiser.com. Before putting the devices into operation, please observe the respective country-specific regulations. 35 Manufacturer Declarations Statements regarding FCC and Industry Canada These devices comply with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) these devices may not cause harmful interference, and (2) these devices 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. These class B digital devices comply 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 devices into operation, please observe the respective country-specific regulations! 36 Sennheiser electronic GmbH & Co.

KG Am Labor 1, 30900 Wedemark, Germany www.sennheiser.com



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