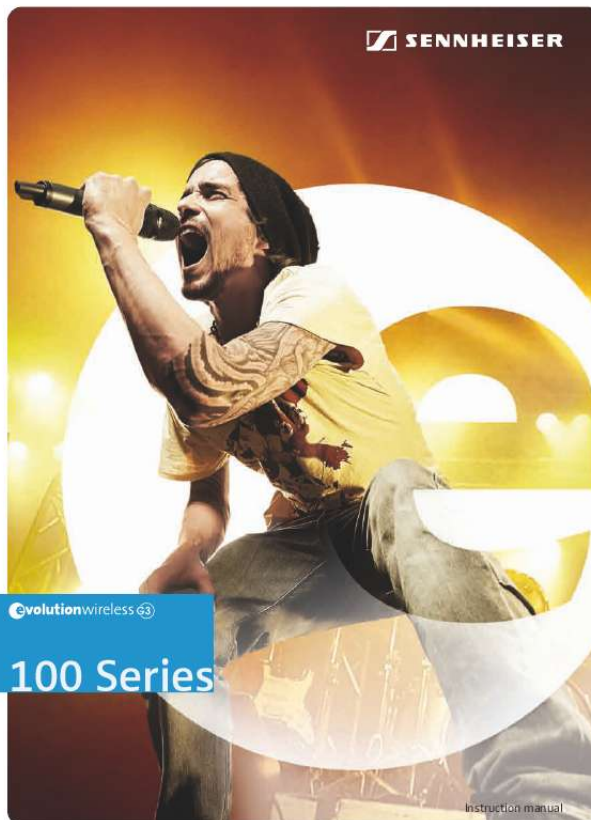




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You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER EW 135 G3. You'll find the answers to all your questions on the SENNHEISER EW 135 G3 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SENNHEISER EW 135 G3
User guide SENNHEISER EW 135 G3
Operating instructions SENNHEISER EW 135 G3
Instructions for use SENNHEISER EW 135 G3
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Manual abstract:

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.. 4 The frequency bank system ...

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

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.... 22 *Selecting a standard display*

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..... 24 *Overview of the operating menus*

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... 35 For an animated instruction manual, visit the respective product pages at www.sennheiser.com. There you will also find detailed instruction manuals for the individual devices. 1 Important safety instructions Important safety instructions System · Read this instruction manual. · Keep this instruction manual. Always include this instruction manual when passing the devices and the mains unit on to third parties.

· Heed all warnings and follow all instructions in this instruction manual. · Only clean the devices when they are not connected to the mains. Use a cloth for cleaning. · Only use attachments/accessories specified by Sennheiser. · Refer all servicing to qualified service personnel.

Service is required if the devices or the mains unit have been damaged in any way, liquid has been spilled, objects have fallen inside, the devices have been exposed to rain or moisture, do not operate properly or have been dropped. · WARNING: To reduce the risk of fire or electric shock, do not use the devices and the mains unit near water and do not expose them to rain or moisture. Receiver · Only use the supplied mains unit. · Unplug the mains unit from the wall socket to completely disconnect the device from the mains, during lightning storms or when unused for long periods of time. · Only operate the mains unit from the type of power source specified in the chapter "Specifications" (see page 31).

· Ensure that the mains 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 31). · Do not block any ventilation openings. Install the device in accordance with the instructions given in this instruction manual. ·

Do not install the device and the mains unit near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat. · Do not overload wall outlets and extension cables as this may result in fire and electric shock. 2 Important safety instructions · Danger due to high volumes This device 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. Bodypack transmitter and radio microphone Do not place the devices near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat. Intended use of the system Intended use of the ew 100 G3 series devices includes: · having read this instruction manual especially the chapter "Important safety instructions", · using the devices within the operating conditions and limitations described in this instruction manual. "Improper use" means using the devices other than as described in these instructions, or under operating conditions which differ from those described herein. 3 The ew 100 G3 evolution wireless series The ew 100 G3 evolution wireless series With the ew 100 G3 evolution wireless series, Sennheiser offers high-quality state-of-the-art RF transmission systems with a high level of operational reliability and ease of use. Transmitters and receivers permit wireless transmission with studio-quality sound. The frequency bank system Please note: Frequency usage is different for each country. Your Sennheiser partner will have all the necessary details on the available legal frequencies for your area. The devices are available in 6 UHF frequency ranges with 1,680 frequencies per frequency range: Range A: 500 516 558 Range G: 566 608 Range B: 600 626 668 Range C: 700 734 776 Range D: 780 822 Range E: 823 865 800 MHz Each frequency range (AE, G) offers 21 frequency banks with up to 12 channels each: Channel 1 frequency preset Channel 2 frequency preset Frequency bank 1 .

.. 20 Channel 12 frequency preset Channel 1 freely selectable frequency Channel 2 freely selectable frequency Frequency bank U Channel 12 freely selectable frequency Each of the channels in the frequency banks "1" to "20" has been factory-preset to a fixed frequency (frequency preset). The factory-preset frequencies within one frequency bank are intermodulation-free. These frequencies cannot be changed.

For an overview of the frequency presets, please refer to the supplied frequency information sheet. Updated versions of the frequency information sheet can be downloaded from the product page on our website at www.sennheiser.com. The frequency bank "U" allows you to freely select and store frequencies.

It might be that these frequencies are not intermodulation-free. 4 Product overview Product overview Overview of the EM 100 receiver 2 Data Ports auf der Rückseite ergänzen, Anzeigen-Display verkleinern, Jog-Dial entfernen, Typenschild zu 300 ändern, kein Kopfhörerausgang: Nr. anpassen ³A · » ζ ' 240 25 10 RF PEAK 0 -10 -20 -30 AF P 543.200 MHz MUTE 1. 1 ew100 G3 SET B XXXXXXXX 0682 ¶ ³/₄ μ, ¹A ³ Operating elements front panel button B Operating elements rear panel ¶ Cable grip for power supply DC cable ° DC socket (DC IN) for connection of NT 2 mains unit ³/₄ Audio output (AF OUT BAL), XLR-3M socket, balanced μ Audio output (AF OUT UNBAL), ¹/₄" (6).



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3 mm) jack socket, unbalanced, Service interface (DATA) ¹Service interface (DATA) Antenna input I (ANT II) with remote power supply input, BNC socket Type plate Antenna input I (ANT I) with remote power supply input, BNC socket · Infra-red interface » Display panel, backlit in orange ; SET button ´ UP/DOWN button ²STANDBY button, serves as the ESC (cancel) key in the operating menu 5 Product overview Overview of the displays of the EM 100 receiver After switch-on, the receiver displays the standard display "Receiver Parameters". For further illustrations and examples of the different standard displays, please refer to 24. This standard display displays the operating states of the receiver. 40 25 10 RF PEAK 0 -10 -20 -30 AF P 543.200 MHz MUTE Diversity display: 1.

1 EW100 G3 Display RF level "RF" (Radio Frequency) Meaning 40 30 20 10 RF Antenna input I is active Antenna input II is active RF signal level: Field strength of the transmitted signal Squelch threshold level Modulation of the transmitter with peak hold function. When the level display for audio level shows full deflection, the audio input level is excessively high. When the transmitter is overmodulated frequently or for extended periods of time, the "PEAK" display is shown inverted. Audio level "AF" (Audio Frequency) PEAK 0 -10 -20 -30 -40 AF Frequency bank and channel Frequency Name Pilot tone "P&qu. 100% approx. 70% approx. 30% Charge status is critical, the red LOW BATT LED $\frac{3}{4}$ is flashing: $\frac{3}{4}$ 10 Putting the devices into operation Putting the devices into operation EM 100 receiver You can set up the receiver on a flat surface or mount it into a 19" rack. For information on rack mounting, refer to the instruction manual of the EM 100 receiver available on the ew G3 product page at www.sennheiser.com.

Setting up the receiver on a flat surface Place the receiver on a flat, horizontal surface. Please note that the device feet can leave stains on delicate surfaces.

The stacking elements are designed to help protect the operating elements from damage or deformation, e.g. if the receiver is dropped.

Therefore, fasten the stacking elements, even if you do not want to stack your receivers. Fastening the stacking elements To fasten the stacking elements :

Unscrew and remove the two recessed head screws (M4x8) on each side of the receiver (see diagram). Secure the stacking elements to the sides of the receiver using the previously removed recessed head screws (see diagram). Fitting the device feet The device feet are fitted to the base of the receiver (see diagram). If you want to stack receivers (see following section), only fit the device feet to the base of the lowermost receiver.

Clean the base of the receiver where you want to fix the device feet. Fix the device feet to the base of the receiver by peeling off the backing paper and fitting them as shown on the left. 11 Putting the devices into operation Stacking receivers Stack several receivers on top of each other. CAUTION! Danger of injury due to toppling receiver stacks! High receiver stacks can easily topple over. Place the stack on an absolutely flat surface. Secure the stack against toppling over. Fasten the stacking elements as described in the previous section. Stack the receivers so that the recesses of the stacking elements completely engage with each other. Connecting the rod antennas The supplied rod antennas are suitable for use in good reception conditions. Connect the antennas.

You have the following options: You can connect the rod antennas to the rear of the receiver. You can use the optional AM 2 antenna front mount kit and mount the rod antennas to the front of the receiver (see the instruction manual of the EM 100 receiver available on the ew G3 product page at www.sennheiser.com). Align the antennas in a V-shape. When using more than one receiver, we recommend connecting remote antennas and, if necessary, using Sennheiser antenna accessories. For more information, visit the ew G3 product page at www.sennheiser.com. Connecting an amplifier/mixing console

The receiver's XLR-3M socket $\frac{3}{4}$ and the $\frac{1}{4}$ " (6.3 mm) jack

3 mm) jack socket μ are connected in parallel. Use a suitable cable to connect the amplifier/mixing console to the XLR-3M socket $\frac{3}{4}$ or the $\frac{1}{4}$ " (6.3 mm) jack socket μ . Via the operating menu, adjust the audio output level ("AF Out") of the receiver to the input of the amplifier or mixing console (see page 26). The audio output level is adjusted via the operating menu and is common for both sockets.

$\frac{3}{4}$ 12 Putting the devices into operation Connecting the mains unit Only use the supplied mains unit. It is designed for the receiver and ensures safe operation. To connect the mains unit: Insert the connector of the mains unit Slide the supplied country adapter Plug the mains unit into the socket ° of the receiver. onto the mains unit . Pass the cable of the mains unit through the cable grip ¶.

into a wall socket. ¶ ° SK 100 bodypack transmitter Inserting the batteries/accupack For powering the bodypack transmitter, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack. Push the two catches , in the direction of the arrows and open the battery compartment cover μ , μ μ Insert the two batteries or the accupack as shown above. Observe correct polarity when inserting the batteries/accupack. Close the battery compartment. The battery compartment cover μ locks into place with an audible click. 13 Putting the devices into operation Charging the accupack To charge the BA 2015 accupack: Insert the bodypack transmitter into the L 2015 charger (optional accessory). The L 2015 charger can only charge the combination BA 2015 accupack/bodypack transmitter.

Standard batteries (primary cells) or individual rechargeable battery cells cannot be charged. Connecting the microphone cable/instrument cable The audio input is designed for the connection of both condenser microphones and instruments (e.g. guitars). DC powering of the condenser microphones is via the audio input. Use one of the recommended Sennheiser microphones or the optional CI 1 instrument cable. Connect the 3.5 mm jack plug from the Sennheiser microphone or instrument cable to the 3.5 mm jack socket MIC/LINE ³. Lock the ³.

5 mm jack plug by screwing down the coupling ring of the cable. Via the operating menu, adjust the sensitivity of the microphone/line input. ³ Attaching and positioning the corresponding microphones ME 2/ME 4 Use the microphone clip to attach the microphone to clothing (e.g. tie, lapel).

The ME 2 clip-on microphone (shown on the right in the diagram) has an omni-directional pick-up pattern. It is therefore not necessary to position it precisely.



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Attach the ME 2 microphone as close as possible to the sound source. The ME 4 clip-on microphone (shown on the left in the diagram) has a cardioid pick-up pattern. Position the ME 4 microphone so that its sound inlet is directed towards the sound source (e.g. mouth). ME 3 Adjust the ME 3 headmic so that a comfortable and secure fit is ensured. The ME 3 headmic has a cardioid pick-up pattern. Position the microphone so that its sound inlet is directed towards the sound source (e.g. mouth). Attaching the bodypack transmitter to clothing You can use the belt clip band). to attach the bodypack transmitter to clothing (e.g.

belt, waist- The belt clip is detachable so that you can also attach the transmitter with the antenna pointing downwards. To do so, withdraw the belt clip from its fixing points and attach it the other way round. The belt clip is secured so that it cannot slide out of its fixing points accidentally. 14 Putting the devices into operation To detach the belt clip: Lift one side of the belt clip as shown in the diagram on the right-hand side. Press down the belt clip at one fixing point and pull it out of the transmitter housing. Repeat for the other side. SKM 100 radio microphone Inserting the batteries/accupack For powering the radio microphone, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack. » Unscrew the lower part of the radio microphone from the radio microphone's body » by turning it counterclockwise. When unscrewing the radio microphone during operation, the muting function is automatically activated.

"MUTE" appears on the display panel. When screwing the lower part of the radio microphone back to the radio microphone's body, the muting function is deactivated. Slide back the lower part of the radio microphone as far as it will go. Open the battery compartment cover . Insert the batteries or the BA 2015 accupack as shown on the battery compartment cover.

Observe correct polarity when inserting the batteries/accupack. Close the battery compartment cover . Push the battery compartment into the radio microphone's body. Screw the lower part of the radio microphone back to the radio microphone's body ». 15 Putting the devices into operation Charging the accupack To charge the radio microphone with the inserted BA 2015 accupack (optional accessory): Use the LA 2 charging adapter to insert the radio microphone into the L 2015 charger (both the charger and the charging adapter are available as optional accessories).

Changing the microphone head The microphone head is easy to change. @@@@ "MUTE" appears on the display panel. @@Screw the desired microphone head to the radio microphone. @@Protection rings in different colors are available as accessories. @@@@Switch the receiver on. 2. Switch a transmitter on. @@@@The bodypack transmitter transmits an RF signal. The transmission icon is displayed. @@@@The red ON LED $\frac{3}{4}$ goes off and the display panel turns off.

@@@@@ "RF Mute Off" appears on the display panel. Press the SET button ¶. @@The radio microphone transmits an RF signal. The transmission icon is displayed. The red ON LED $\frac{3}{4}$ lights up and the standard display "Frequency/Name" appears on the display panel. You can switch the radio microphone on and deactivate the RF signal on switch-on. For more information, see below. To switch the radio microphone off: If necessary, deactivate the lock mode (see page 21). ON/OFF Press the ON/OFF button ¹ until "OFF" appears on the display panel. The red ON LED $\frac{3}{4}$ goes off and the display panel turns off.

When in the operating menu, pressing the ON/OFF button ¹ will cancel your entry (ESC function) and return you to the current standard display. 19 Using the devices To switch the radio microphone on and to deactivate the RF signal on switch-on (offline operation): ON/OFF Press the ON/OFF button ¹ until "RF Mute On?" appears on the display panel. Press the multi-function switch ₂. The transmission frequency is displayed but the radio microphone does not transmit an RF signal. The transmission icon is not displayed.

543.200 MHz ew100 G3 AF P MUTE Use this function to save battery power or to prepare a radio microphone for use during live operation without causing interference to existing transmission links. To activate the RF signal: ON/OFF Briefly press the ON/OFF button ¹. "RF Mute Off" appears on the display panel. Press the multi-function switch ₂.

The transmission icon is displayed again. Synchronizing a transmitter with the receiver You can synchronize a suitable transmitter of the ew 100 G3 series with the receiver. During synchronization, the following parameters are transferred to the transmitter: Setting "Frequency Preset" "Name" "Pilot Tone" To transfer the parameters: Transferred parameters Currently set frequency Freely selectable name currently set on the receiver Current pilot tone setting of the receiver ("Inactive"/"Active") ³ . Switch the transmitter and the receiver on. Press the button ³ on the receiver. "Sync" appears on the display panel of the receiver. Place the infra-red interface of the transmitter (see page 7 and 9) in front of the infrared interface of the receiver . The parameters are transferred to the transmitter. When the transfer is completed, " " appears on the display panel. The receiver then switches back to the current standard display. ³ . To cancel the transfer: Press the STANDBY button on the receiver.

20 Using the devices " " appears on the display panel of the receiver. " " also appears if: no transmitter was found or the transmitter is not compatible, no transmitter was found and the synchronization process was canceled after 30 seconds, you canceled the transfer. Deactivating the lock mode temporarily You can activate or deactivate the automatic lock mode via the "Auto Lock" menu item (see page 25). If the lock mode is activated, you have to temporarily deactivate it In order to be able to operate the devices: EM 100 Press the UP/DOWN button. "Unlock?" appears on the display panel. SET Press the SET button. The lock mode is temporarily deactivated (see below). SK 100 Press the rocker button. "Unlock?" appears on the display panel. SET Press the SET button.

The lock mode is temporarily deactivated (see below). SKM 100 Move the multi-function switch upwards/downwards. "Unlock?" appears on the display panel. Press the multi-function switch. The lock mode is temporarily deactivated (see below).

How you are using the devices determines how long the lock mode remains deactivated: When in the operating menu The lock mode is deactivated as long as you are working with the operating menu.



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When one of the standard displays is shown The lock mode is automatically activated after 10 seconds. Prior to this, the lock mode icon flashes, indicating that the lock mode is being activated. 21 Using the devices Muting the audio signal or deactivating the RF signal EM 100 To mute the audio signal: When one of the standard displays is shown on the display panel, press the STANDBY button. "RX Mute On?" appears on the display panel.

SET Press the SET button. The audio signal is muted. To unmute the audio signal: Press the STANDBY button. "RX Mute Off?" appears on the display panel. SET Press the SET button. The muting is canceled. SK 100 · 543.200 MHz ew100 G3 AF P MUTE The MUTE switch · allows you to mute the audio signal or to deactivate the RF signal. Via the "Mute Mode" menu item, you can set the desired function of the MUTE switch ·: Setting "Disabled" "RF On/Off" Slide the MUTE switch ·..

· ... to the left (position MUTE) ... to the left (position MUTE) ...
to the right "AF On/Off" ... to the left (position MUTE) ..

· to the right Function None Deactivates the RF signal (offline operation) Activates the RF signal (online operation) Mutes the audio signal Unmutes the audio signal From the "Mute Mode" menu item, select the desired setting (see page 27). Exit the operating menu. Slide the MUTE switch · to the left, to the position MUTE. The bodypack transmitter reacts as indicated in the table.

22 Using the devices The current state of the muting function or the RF signal is displayed on the display panel of the bodypack transmitter. Audio signal is muted Transmitter's display panel: "MUTE" is displayed Audio signal is activated (muting is canceled) Transmitter's display panel: RF signal is deactivated Transmitter's display panel: RF signal is activated Transmitter's display panel: Transmission icon is displayed Transmission icon is not displayed "MUTE" is not displayed You can also deactivate the RF signal on switch-on. For more information, refer to the chapter "Switching the devices on/off" on page 18. Using the ON/OFF button, you can also activate/deactivate the RF signal during operation. To do so, briefly press the ON/OFF button and proceed as described on 18. SKM 100 You can deactivate the RF signal on switch-on. For more information, refer to the chapter "Switching the devices on/off" on 20. To deactivate the RF signal during operation: ON/OFF When one of the standard displays is shown on the display panel, press the ON/OFF button. "RX Mute On?" appears on the display panel. Proceed as described on 20.

23 Using the devices Selecting a standard display EM 100 Press the UP/DOWN button to select a standard display: Contents of the display 40 25 10 RF PEAK Selectable standard display "Receiver Parameters" appears after switch-on of the receiver and displays the receiver parameters (see page 5). "Soundcheck" (display with additional function) displays the signal quality within the transmission area. "Guitar Tuner" (display with additional function) displays the guitar tuner.* 0 -10 -20 -30 AF P 543.200 MHz MUTE PEAK 1. 1 ew100 G3 40 25 10 RF PEAK 0 -10 -20 -30 AF Soundcheck 543.200 MHz MUTE 40 25 10 RF 0 -10 -20 -30 AF 440 Hz MUTE * The "Guitar Tuner" standard display is deactivated upon delivery. To show this standard display, you have to activate it (see page 26). Information on the soundcheck function and the guitar tuner function can be found in the instruction manual of the EM 100 receiver available on the ew G3 product page at www.sennheiser.com.

com. SK 100 and SKM 100 To select a standard display: SK 100 Press the rocker button SKM 100 Move the multi-function switch Contents of the display Selectable standard display "Frequency/Name" 543.200 MHz ew100 G3 AF P MUTE B.Ch: 20.24 543.200 MHz AF "Channel/Frequency" P MUTE ew100 G3 B.Ch: 20.24 AF "Channel/Name" P MUTE 24 Overview of the operating menus Overview of the operating menus For more detailed information on the operating menus, refer to the individual instruction manuals of the devices. These instruction manuals can be downloaded from the respective product pages at www.sennheiser.com.

com. EM 100 Main menu "Menu" Squelch Easy Setup Frequency Preset Name AF Out Equalizer Auto Lock Advanced Extended menu Exit "Advanced Menu" Tune Guitar Tuner Pilot Tone LCD Contrast Reset Software Revision Exit "Easy Setup" Reset List Current List Scan New List Exit When one of the standard displays is shown on the display panel, you can get into the main menu by pressing the SET button ·. The extended menu "Advanced Menu" and the submenu "Easy Setup" can be accessed via the corresponding menu items. Display Function of the menu item Adjusts the squelch threshold Adjustment range: adjustable in three steps "Low", "Middle", "High" Special function (for servicing purposes only): With the squelch threshold set to "Low", you switch the squelch off by keeping the DOWN ´ pressed. If you then press the UP button ´, you switch the squelch on again. Main menu "Menu" Squelch CAUTION! Danger of hearing damage and material damage! If you switch the squelch off or adjust the squelch threshold to a very low value, loud hissing noise can occur in the receiver. The hissing noise can be loud enough to cause hearing damage or overload the loudspeakers of your system! Always make sure that the squelch is switched on (see above). Before adjusting the squelch threshold, set the volume of the audio output level to the minimum. Never change the squelch threshold during a live transmission. 25 Overview of the operating menus Display Easy Setup Frequency Preset Name AF Out Function of the menu item Scans for unused frequency presets, releases and selects frequency presets Changes the frequency bank and the channel Enters a freely selectable name Adjusts the audio output level Adjustment range: -24 dB to +24 dB, adjustable in 3-dB steps, 6 dB gain reserve Special function "gain reserve": When you have adjusted a level of +18 dB, press the UP button ´ until the next higher value appears.

Changes the frequency response of the output signal Activates/deactivates the automatic lock mode Calls up the extended menu "Advanced Menu" Exits the operating menu and returns to the current standard display Releases all locked frequency presets and selects an unused frequency preset Selects an unused frequency preset Scans for unused receiving frequencies (frequency preset scan) Exits the submenu "Easy Setup" and returns to the main menu Sets the receiving frequencies for the frequency bank "U" Special function: Sets a channel and a receiving frequency for the frequency bank "U": Select this menu item and call it up by pressing the SET button · until the channel selection appears.



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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. display panel Problem RF signal available, no audio signal, "MUTE" appears on the display panel Possible cause Transmitter is muted ("MUTE") or transmitter doesn't transmit a pilot tone SK 100 and SKM 100 Problem Devices cannot be operated, "Locked" appears on the display panel No operation indication Possible cause Lock mode is activated Possible solution Deactivate the lock mode (see page 21). Batteries are flat or accupack is flat Replace the batteries or recharge the accupack (see page 15).

29 Cleaning the devices Problem No RF signal at the receiver Possible cause Possible solution Bodypack transmitter/radio microphone Synchronize the bodypack transmitter/radio and receiver are not on the same channel microphone with the receiver (see page 20).



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Set the bodypack transmitter/radio microphone to the same channel as the receiver. Bodypack transmitter/radio microphone is out of range Check the squelch threshold setting on the receiver. Reduce the distance between bodypack transmitter/radio microphone and receiving antenna. 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.

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° 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° 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° 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.



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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

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