



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER EW 500-965 G3. You'll find the answers to all your questions on the SENNHEISER EW 500-965 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 500-965 G3

User guide SENNHEISER EW 500-965 G3

Operating instructions SENNHEISER EW 500-965 G3

Instructions for use SENNHEISER EW 500-965 G3

Instruction manual SENNHEISER EW 500-965 G3



[You're reading an excerpt. Click here to read official SENNHEISER EW 500-965 G3 user guide](http://yourpdfguides.com/dref/3870313)
<http://yourpdfguides.com/dref/3870313>

Manual abstract:

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.. 4 The frequency bank system ...

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.. 4 Product overview

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 5 Overview of the EM 500 receiver

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... @@@@ @@@@ 10 Overview of the displays of the SKM 500 radio microphone ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 11 Putting the devices into operation

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.....
.....
.....
.....

.....
.....
.....

. 12 EM 500 receiver

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

12 SK 500 bodypack transmitter

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 14 SKM 500 radio microphone .

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 16 Using the devices ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

. 17 Switching the devices on/off

.....
.....
.....
.....

.....
.....
.....
.....

.....

.....
.....
.....

.....
.....
.....
.....

.....
.....

.. 18 Synchronizing a transmitter with the receiver ...

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.. 21 Deactivating the lock mode temporarily ...

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

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

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.....

.....

.....

23 Selecting a standard display

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 25 Overview of the operating menus ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

26 Cleaning the devices

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 29 Specifications ..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 32 Manufacturer Declarations ..

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.....
.....
.....
.....
.....

.... 36 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. Servicing 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 32). · 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 32). · 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 500 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 500 G3 evolution wireless series The ew 500 G3 evolution wireless series With the ew 500 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: 516 558 Range G: 566 608 Range B: 626 668 Range C: 734 776 Range D: 780 822 Range E: 823 865 Each frequency range (AE, G) offers 26 frequency banks with up to 32 channels each: Channel 1 frequency preset Channel 2 frequency preset Frequency bank 1... 20 Channel 32 frequency preset Channel 1 freely selectable frequency Channel 2 freely selectable frequency Frequency bank U1 ... U6 Channel 32 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 banks "U1" to "U6" allow 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 500 receiver ³A · » ¿ ´ ² ¶ PEAK 40 30 20 10 RF 0 -10 -20 -30 -40 AF B.Ch: 20.24 ew500 G3 543.200 MHz SKM500 EQ: P + 12dB MUTE B 500 ° ¾ µ , ¹A Operating elements front panel B Operating elements rear panel ³Headphone output, ¼" (6.3 mm) jack socket () · Headphone volume control » button, backlit ¿ Infra-red interface ´ Display panel, backlit in orange ²Jog dial ¶ STANDBY button, serves as the ESC (cancel) key in the operating menu ° Antenna input II (ANT II) with remote power supply input, BNC socket ¾ Type plate µ Antenna input I (ANT I) with remote power supply input, BNC socket , Audio output (AF OUT UNBAL), ¼" (6.



[You're reading an excerpt. Click here to read official SENNHEISER EW 500-965 G3 user guide](http://yourpdfguides.com/dref/3870313)
<http://yourpdfguides.com/dref/3870313>

3 mm jack socket, unbalanced ¹Audio output (AF OUT BAL), XLR-3M socket, balanced LED (yellow) for network activity indication LAN socket (ETHERNET RJ-45) Cable grip for power supply DC cable DC socket (DC IN) for connection of NT 2-3 mains unit 5 Product overview Overview of the displays of the EM 500 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 page 25. This standard display displays the operating states of the receiver and provides the most important information on the received transmitter provided the linked transmitter supports this function. PEAK 40 30 20 10 RF 0 -10 -20 -30 -40 AF B.CH: 20.32 ew500 G3 543.200 MHz SKM500 EQ: P + 12dB MUTE Display RF level "RF" (Radio Frequency) Meaning Diversity display: Antenna input I is active 40 30 20 10 RF 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 approx.

20 seconds. 543.200 MHz ew500 G3 AF P MUTE Display Audio level "AF" Frequency Name Transmission icon Lock mode icon "P" (Pilot) "MUTE" Battery status Meaning Modulation of the radio microphone with peak hold function Current transmission frequency Freely selectable name of the radio microphone RF signal is being transmitted Lock mode is activated Pilot tone transmission is activated Audio signal is muted Charge status: approx. 100% approx. 70% approx. 30% Charge status is critical, the red LOW BATT LED $\frac{3}{4}$ is flashing: $\frac{3}{4}$ 11 Putting the devices into operation Putting the devices into operation EM 500 receiver You can set up the receiver on a flat surface or mount it into a 19" rack. For information on rack mounting, r1es (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 14 Putting the devices into operation Attaching and positioning the MKE 2 microphone Use the microphone clip to attach the microphone to clothing (e.g. tie, lapel). The MKE 2 clip-on microphone has an omni-directional pick-up pattern. It is therefore not necessary to position it precisely. 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. @@@@@"MUTE" appears on the display panel. @@@@Open the battery compartment cover .

@@@@@"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 ζ goes off and the display panel turns off. @@@@The transmission icon is not displayed.

@@@@"RF Mute Off" appears on the display panel. Press the SET button ¶. @@The radio microphone transmits an RF signal. The transmission icon is displayed. @@@@For more information, see below.

To switch the radio microphone off: If necessary, deactivate the lock mode (see page 22). 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. To switch the radio microphone on and to deactivate the RF signal on switch-on (offline operation): SET Press the ON/OFF button ¹ until "RF Mute On?" appears on the display panel.

20 Using the devices Press the multi-function switch \cdot . The transmission frequency is displayed but the radio microphone does not transmit an RF signal. The transmission icon is not displayed. When the pilot tone function is activated on both radio microphone and receiver, "RF Mute" appears on the receiver's display panel. 543.200 MHz ew500 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: SET Briefly press the ON/OFF button ¹. "RF Mute Off" appears on the display panel. Press the multi-function switch \cdot . The transmission icon is displayed again.

Synchronizing a transmitter with the receiver You can synchronize a suitable transmitter of the ew 500 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: Switch the transmitter and the receiver on. Press the button » on the receiver. "Sync" appears on the display panel of the receiver. Transferred parameters Currently set frequency Freely selectable name currently set on the receiver Current pilot tone setting of the receiver ("Inactive"/"Active") » ζ Place the infra-red interface of the transmitter (see page 8 and page 10) in front of the infra-red interface of the receiver ζ . 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. To cancel the transfer: Press the STANDBY button on the receiver. " " 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. Via the "Sync Settings" submenu, you can adjust the parameters to be transferred to the transmitters (see page 27).



[You're reading an excerpt. Click here to read official SENNHEISER EW 500-965 G3 user guide](http://yourpdfguides.com/dref/3870313)
<http://yourpdfguides.com/dref/3870313>

21 »¿ Using the devices Deactivating the lock mode temporarily You can activate or deactivate the automatic lock mode via the "Auto Lock" menu item (see page 26). If the lock mode is activated, you have to temporarily deactivate it In order to be able to operate the devices: EM 500 Turn the jog dial. "Unlock?" appears on the display panel.

Press the jog dial. The lock mode is temporarily deactivated (see below). SK 500 Press the rocker button. "Unlock?" appears on the display panel. SET Press the SET button.

The lock mode is temporarily deactivated (see below). SKM 500 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. 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. 22 Using the devices Muting the audio signal or deactivating the RF signal EM 500 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.

Press the jog dial. The audio signal is muted. "RX Mute" appears in alternation with the current standard display. To unmute the audio signal: Press the STANDBY button. "RX Mute Off?" appears on the display panel. Press the jog dial. The muting is canceled. SK 500 · 543.200 MHz ew500 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 28). Exit the operating menu. Slide the MUTE switch · to the left, to the position MUTE.

The bodypack transmitter reacts as indicated in the table. @@@@@"RX Mute On?" appears on the display panel. @@@@@"To show this standard display, you have to activate it (see page 27). Information on the soundcheck function and the guitar tuner function can be found in the instruction manual of the EM 500 receiver available on the ew G3 product page at www.sennheiser.com. SK 500 and SKM 500 To select a standard display:

SK 500 Press the rocker button. SKM 500 Move the multi-function switch. You can select the following standard displays: "Frequency/Name", "Channel/Frequency", "Channel/Name". 25 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. EM 500 Main menu "Menu" Squelch Easy Setup Frequency Preset Name AF Out Equalizer AutoLock Advanced Extended menu Exit "Advanced Menu" Tune Guitar Tuner Sync Settings Pilot Tone Warnings LCD Contrast Reset IP-Address Software Revision Exit "Easy Setup" Reset List Current List Scan New List Exit "SKM Settings/ SK Settings" Sensitivity Auto Lock Mute Mode (SK) RF Power Cable Emulation (SK) Exit "Warnings" Sub-menu "Sync Settings" SKM Settings SK Settings Exit AF Peak Low RF-Signal RF Mute TX Mute RX Mute Low Battery Exit When one of the standard displays is shown on the display panel, you can get into the main menu by pressing the jog dial ? The extended menu "Advanced Menu" and the submenus can be accessed via the corresponding menu items.

Display Function of the menu item Adjusts the squelch threshold, adjustment range: 5 to 25 dBV in 2-dB steps, can be switched off Special function (for servicing purposes only): With the jog dial ² set to the "5 dB" setting, you switch the squelch off by turning the jog dial to the left and keeping it in this position. If you then turn the jog dial to the right, 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. 26 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, turn the jog dial ² to the right and keep it in this position until the next higher value appears. Equalizer

Auto Lock Advanced Exit 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 banks "U1" to "U6" Special function: Sets a channel and a receiving frequency for the frequency banks "U1" to "U6": Select this menu item and call it up by pressing the jog dial ² until the channel selection appears. "Easy Setup" Reset List Current List

Scan New List Exit Tune Extended menu "Advanced Menu" Sync Settings Guitar Tuner Pilot Tone Warnings LCD Contrast Reset IP-Address Software Revision Exit SKM Settings SK Settings Exit Activates/deactivates the parameters to be transferred to the transmitters Selects the mode of the guitar tuner function Activates/deactivates the pilot tone evaluation Activates/deactivates the warning messages Adjusts the contrast of the display panel Resets the receiver Adjusts the IP address of the receiver Displays the current software revision Exits the extended menu "Advanced Menu" and returns to the main menu Activates/deactivates the parameters to be transferred to the SKM radio microphones Activates/deactivates the parameters to be transferred to the SK bodypack transmitters Exits the submenu "Sync Settings" and returns to the extended menu "Advanced Menu" Submenu "Sync Settings" "SK Settings"/"SKM Settings" Here you can activate/deactivate the transfer of the following transmitter parameters: Sensitivity, Auto Lock, Mute Mode (SK), RF Power and Cable Emulation (SK) (see page 28) "Warnings" Activates/deactivates warnings (color change and warning messages): AF-Peak Low RF-Signal RF-Mute Audio overmodulation RF signal is weak RF signal is too weak or no RF signal 27 Overview of the operating menus Display TX-Mute RX-Mute Low Battery Exit

Function of the menu item · Transmitter is muted or · no pilot tone Receiver is muted Charge status of the transmitter battery/the BA 2015 accupack is critical Exits the submenu "Warnings" and returns to the extended menu "Advanced Menu" SK 500 and SKM 500 Main menu "Menu" Sensitivity Frequency Preset Name Auto Lock Advanced Exit Extended menu "Advanced" Tune Mute Mode (SK) RF Power Cable Emulation (SK) Pilot Tone LCD Contrast Reset Software Revision Exit Display Meaning 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 banks "U1" to "U6" Special function: Sets a channel and a transmission frequency for the frequency banks "U1" to "U6": Select this menu item and call it up by pressing the SET button (SK)/the multi-function switch (SKM) until the channel selection appears.

[You're reading an excerpt. Click here to read official SENNHEISER](#)



[EW 500-965 G3 user guide](#)

<http://yourpdfguides.com/dref/3870313>

Main menu "Menu" Sensitivity Frequency Preset* Name* Auto Lock Advanced Exit Tune Extended menu "Advanced Menu" Mute Mode (SK) RF Power Cable Emulation (SK) Pilot Tone* LCD Contrast Reset Software Revision Exit Sets the mode for the MUTE switch Adjusts the transmission power Emulates guitar cable lengths/guitar cable capacities 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 * For information on the synchronization of transmitters with receivers, refer to page 21. 28 Cleaning the devices 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 500 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 500 Use a slightly damp cloth to clean the bodypack transmitter from time to time. Do not use any solvents or cleansing agents. SKM 500 Use a slightly damp cloth to clean the bodypack transmitter from time to time. Do not use any solvents or cleansing agents. 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. 29 Cleaning the devices If a problem occurs ... EM 500 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 22).

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 21). Transmitter is out of range Check the squelch threshold setting (see page 26). Reduce the distance between transmitter and receiving antennas. RF signal available, If "TX Mute" additionally appears on the Cancel the muting (see page 23). no audio signal, display panel: Switch the pilot tone transmission on the trans "MUTE" appears on the transmitter is muted ("MUTE") mitter on (see page 28). display panel or Switch the pilot tone evaluation on the receiver transmitter doesn't transmit a pilot tone off (see page 27). Receiver's squelch threshold is adjusted Reduce the squelch threshold (see page 26). too high 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 28). Audio signal is distorted Transmitter sensitivity is adjusted too Adjust the transmitter sensitivity correctly high ("Sensitivity", see page 28).

Receiver's audio output level is adjusted Reduce the audio output level too high ("AF Out", see page 27). 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 27). During scanning, a transmitter of your Switch the transmitter off and redo the system operating on this channel has frequency preset scan (see page 27). not been switched off None of the diversity Receiver's squelch threshold is adjusted Reduce the squelch threshold (see page 26). 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 24). Cancel the muting (see page 23). Reduce the squelch threshold setting on the receiver. Activate or deactivate the pilot tone transmission (see page 28).

Adjust the input sensitivity (see page 28). 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".

31 Specifications Specifications EM 500 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 32 factory-preset channels, intermodulation-free 6 frequency banks, each with up to 32 user programmable channels 42 MHz ± 24 kHz/ ± 48 kHz true diversity < 2 V for 52 dBA rms S/N typ. 75 dB typ. 70 dB 75 dB Off, 5 to 25 dBV in steps of 2 dB 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 Comander 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 115 dBA 0.



[You're reading an excerpt. Click here to read official SENNHEISER EW 500-965 G3 user guide](http://yourpdfguides.com/dref/3870313)
<http://yourpdfguides.com/dref/3870313>

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 350 mA approx. 202 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 34 Specifications Microphones (SK 500) MKE 2 Microphone type Sensitivity Pick-up pattern Max. SPL condenser 5 mV/Pa omni-directional 142 dB SPL Microphone heads (SKM 500) Radio microphone type MMD 935-1 dynamic MMD 945-1 dynamic MMK 965-1 Externally polarized dual diaphragm condenser microphone 7 mV/Pa / 2.3 mV/Pa cardioid/super-cardioid, switchable 142 dB SPL / 152 dB SPL Sensitivity Pick-up pattern Max. SPL 2.5 mV/Pa cardioid 154 dB SPL 1.8 mV/Pa super-cardioid 154 dB SPL Polar diagrams and frequency response curves of the microphone heads (SKM 500) Polar diagram MMD 935-1 30° 0° 0 5 10 60° 15 20 25 90° dB 90° 60° 30° Frequency response curve MMD 935-1 dBV -30 -40 -50 -60 -70 -80 50 100 200 500 1.000 1k 2k 5k 10.000 10k 20k Hz 120° 120° 125 Hz 250 Hz 500 Hz 1000 Hz 150° 180° 150° 2000 Hz 4000 Hz 8000 Hz 16000 Hz Polar diagram MMD 945-1 30° 0° 0 5 10 60° 15 20 25 90° dB 90° 60° 30° Frequency response curve MMD 945-1 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 1.000 1k 2k 5k 10.000 10k 20k Hz Polar diagram MMK 965-1 (cardioid) Frequency response curve MMK 965-1 dBV -30 -40 -50 -60 -70 -80 50 10 0 1 00 11 k 0 .0 0 11 0 k 0 0 .0 0 200 500 Hz 2k 5k 20k Low Cut PAD 35 Manufacturer Declarations Polar diagram MMK 965-1 (super-cardioid) Frequency response curve MMK 965-1 dBV -30 -40 -50 -60 -70 -80 50 10 0 1 00 11 k 0 .0 0 11 0 k 0 0 .

0 0 200 500 Hz 2k 5k 20k Low Cut PAD 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 them 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 500: SK / SKM 500: 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. 36 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! 37 Sennheiser electronic GmbH & Co. KG Am Labor 1, 30900 Wedemark, Germany www.sennheiser.com Printed in Germany Publ.

01/09 529662/A01 .



[You're reading an excerpt. Click here to read official SENNHEISER EW 500-965 G3 user guide](http://yourpdfguides.com/dref/3870313)
<http://yourpdfguides.com/dref/3870313>