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You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER EM 100 G3. You'll find the answers to all your questions on the SENNHEISER EM 100 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 EM 100 G3
User guide SENNHEISER EM 100 G3
Operating instructions SENNHEISER EM 100 G3
Instructions for use SENNHEISER EM 100 G3
Instruction manual SENNHEISER EM 100 G3



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Manual abstract:

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G3 stationary receiver The EM 100 G3 stationary receiver This receiver is part of the evolution wireless series generation 3 (ew G3). With this 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 studioquality sound. Features of the evolution wireless 100 G3 series: Optimized PLL synthesizer and microprocessor technology HDX noise reduction system Pilot tone squelch control True diversity technology Switching bandwidth of 42 MHz Scan function (Easy Setup) for scanning the frequency banks for unused channels Areas of application The receiver can be combined with the following optional components of the ew G3 series (see "Accessories and spare parts" on page 49): Receiver EM 100 G3 Transmitters SK 100 G3 Combinable with . . . SKM 100 G3 Clip-on microphones: ME 2, ME 4 Headmic: ME 3 Instrument cable: CI 1 MMD 835-1, MMD 845-1 MME 865-1 Interchangeable microphone heads: . . . 40 30 20 10 RF PEAK 0 -10 -20 -30 -40 AF P 533.875 MHz MUTE 20.

12 ew100 G3 SET 4 The EM 100 G3 stationary receiver The devices are available in the same UHF frequency ranges and are equipped with the same frequency bank system with factory-preset frequencies. An advantage of the factory-preset frequencies is that . . . a transmission system is ready for immediate use after switch-on, several transmission systems can be operated simultaneously on the preset frequencies without causing intermodulation interference. The frequency bank system The receiver is available in 6 UHF frequency ranges with 1,680 frequencies per frequency range: 516 558 Range 566 608 Range 626 668 Range 734 776 Range 780 822 Range 823 865 Range 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 5 The EM 100 G3 stationary receiver Each of the channels in the frequency banks "1" to "20" has been factorypreset to a fixed frequency (frequency preset).



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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 EM 100 G3 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 (see page 44). 6 Delivery includes Delivery includes The packaging contains the following items: 1 EM 100 G3 stationary receiver 1 NT 2-3 or NT 2-1 mains unit with one country adapter 2 rod antennas 2 stacking elements 1 instruction manual 1 frequency information sheet 4 device feet 7 Product overview Product overview Overview of the EM 100 G3 receiver 3A » ; ´ 240 25 10 RF PEAK 0 -10 -20 -30 AF P 533.

875 MHz 20.12 ew100 G3 SET B 0682 XXXXXXXX ¶ ¾ µ , 1 B Operating elements rear panel ¶ Cable grip for power supply DC cable ° DC socket (DC IN) for connection of NT 2 mains unit ¾ Audio output (AF OUT BAL), XLR-3M socket, balanced µ Audio output (AF OUT UNBAL), ¼" (6.3 mm) jack socket, unbalanced , Service interface (DATA) 1 Svce feet to the four corners of the receiver as shown. Place the receiver on a flat, horizontal surface. Stacking receivers You can 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. 12 Putting the receiver into operation can be mounted quickly and easily onto a flat surface. Secure the jointing plate screws (M 3x6) to the receivers using six recessed head The rack mount "ears" are mounted instead of the stacking elements: Secure the rack mount "ears" to the receivers in the same way as described for the stacking elements (see page 11). To mount the antennas: Use remote antennas, if necessary in conjunction with the ASA 1 antenna splitter (see "Accessories and spare parts" on page 49). To mount the receivers into the rack: Slide the receivers into the 19" rack.

Secure the rack mount "ears" to the 19" rack. 16 Putting the receiver into operation Connecting an amplifier/mixing console The receiver's ¼" (6.3 mm) jack socket µ and XLR-3M socket ¾ are connected in parallel, allowing you to simultaneously connect two devices (e.g. amplifier, mixing console) to the receiver. Use a suitable cable to connect the amplifier/mixing console to the ¼" (6.3 mm) jack socket µ or the XLR-3M socket ¾. For detailed information on balanced and unbalanced connection, please refer to the chapter "Connector assignment" on page 53. 17 Putting the receiver into operation Connecting the mains unit ¶ ° Only use the supplied NT 2-3 or NT 2-1 mains unit. It is designed for your receiver and ensures safe operation.

To connect the mains unit: Connect the yellow connector of the mains unit socket ° at the rear of the receiver. to the yellow Pass the cable of the mains unit through the cable grip ¶. Slide the supplied country adapter Plug the mains unit onto the mains unit . into a wall socket. 18 Using the receiver Using the receiver To establish a transmission link, proceed as follows: 1.

Switch the receiver on (see next section). 2. Switch the transmitter on (see the instruction manual of the transmitter). The transmission link is established and the receiver's RF level display "RF" reacts. It is vital to observe the notes on frequency selection on page 42.

If you cannot establish a transmission link between transmitter and receiver: Make sure that transmitter and receiver are set to the same frequency bank and to the same channel. Read the chapter "Synchronizing transmitters with receivers" on page 42 and, if necessary, the chapter "If a problem occurs ..." on page 47. Switching the receiver on/off 40 25 10 RF PEAK 0 -10 -20 -30 AF P 533.875MHz 20.12 ew100 G3 SET 2 To switch the receiver on: Briefly press the STANDBY button ². The receiver switches on and the "Receiver Parameters" standard display appears. 19 Using the receiver To switch the receiver to standby mode: Keep the STANDBY button ² pressed until "OFF" appears on the display panel.

The receiver switches to standby mode. When in the operating menu, pressing the STANDBY button ² will cancel your entry (ESC function) and return you to the current standard display. To completely switch the receiver off: Disconnect the receiver from the mains by unplugging the mains unit from the wall socket.

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 "Name" "Pilot Tone" Transferred parameters Freely selectable name currently set on the receiver Current pilot tone setting of the receiver ("Inactive"/"Active") "Frequency Preset" Currently set frequency It is vital to observe the notes on frequency selection on page 42. 20 Using the receiver To transfer the parameters: Switch the transmitter and the receiver on. ³ · ³ · Press the button ³ on the receiver. "Sync" appears on the display panel of the receiver. @@The parameters are transferred to the transmitter. @@The receiver then switches back to the current standard display.

@@" " appears on the display panel of the receiver. @@@@"Locked" appears on the display panel. Press the UP/DOWN button.

@@@@@@@@@@@@@@@@@@The muting is canceled. If "RX Mute On?" or "RX Mute Off?" appears on the display panel but you do not wish to change the status of the muting function: Press the STANDBY button.

@@@@@@@@@@@@@@@@@@The current standard display is replaced by the main menu. @@@@I 0 -10 -20 -30 AF Frequency Preset B.Ch: 1. @@@@@@The current standard display appears on the display panel. @@@@@@Connect a guitar to your SK transmitter.

@@@@@@@@@@@@@@@@@@Leave the transmitter switched on and go to your receiver. @@Go to your transmitter. @@Then leave the transmitter there and do not switch it off. @@The recording result is displayed on the "Soundcheck" standard display: RF Max 40 25 10 RF PEAK AF Max 0 -10 -20 -30 AF Soundcheck 533.



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875 MHz P RF Min 31 Adjustment tips and functions Display Meaning What to do ... RF Min Min. RF signal level: Check if the antennas and the antenna cables are correctly must be well above the connected. squelch threshold level for one of the two antennas Improve the position of the RF Max Max.

RF signal level: antennas. both antennas should reach If necessary, use antenna 40 dBV boosters. AF Max Max. audio level On your transmitter, adjust the audio level as high as possible without the level display for audio level showing full deflection (AF Max is at a level with the PEAK display). For more information, refer to the instruction manual of the transmitter. If only one or none of the diversity displays is displayed during the sound check: Check if the antennas are properly positioned or check the antenna cables. Both diversity displays can only be displayed on the "Soundcheck" standard display. During normal operation of the receiver, only one of the diversity displays is displayed. 32 Adjustment tips and functions The main menu "Menu" Menu Squelch Easy Setup Frequency Preset Name AF Out Equalizer Auto Lock Advanced Exit Adjusting the squelch threshold SET 40 25 10 RF PEAK 0 -10 -20 -30 AF Menu Squelch High 40 25 10 RF PEAK 0 -10 -20 -30 AF Squelch High 40 25 10 RF PEAK 0 -10 -20 -30 AF Squelch Middle Call up "Squelch" Select the desired setting "Stored" Store the setting SET Adjustment range: "Low", "Middle", "High", can be switched off The squelch eliminates annoying noise when the transmitter is switched off. It also suppresses sudden noise when there is no longer sufficient transmitter power received by the receiver.

Adjust the squelch threshold with the transmitter switched off to the lowest possible setting that suppresses hissing noise. In der Einstellung „High“ der Rauschsperr-Schwelle wird die Reichweite der Übertragungsstrecke unter ungünstigen Empfangsbedingungen verringert. 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 below). Before adjusting the squelch threshold, set the volume of the audio output level ("AF Out", see page 36) to the minimum.

Never change the squelch threshold during a live transmission. The squelch should only be switched off for servicing purposes werden. With the squelch threshold set to "Low", you switch the squelch off by keeping the DOWN button pressed for 3 seconds. 33 Adjustment tips and functions Display 40 25 10 RF 40 25 10 RF PEAK Squelch is ..

. 0 -10 -20 -30 AF Menu Squelch Middle ... switched on The dotted line displays the squelch threshold. ... switched off. The dotted line goes off and the audio level display "AF" shows full deflection (hissing noise).

40 25 10 RF PEAK 0 -10 -20 -30 AF Menu Squelch Off If you have accidentally switched off the squelch: Press the UP button to switch the squelch on. Menu Squelch Easy Setup Frequency Preset Name AF Out Equalizer Auto Lock Advanced Exit Scanning for, releasing and selecting frequency presets Menu item Function of the menu item Scan New List Automatically scans for unused receiving frequencies (frequency preset scan). If receiving frequencies are used, they will be locked; if receiving frequencies are unused, they will be released. After the frequency preset scan, you can select an unused frequency preset. Reset List Current List Releases all locked frequency presets Selects an unused frequency preset If you call up the "Scan New List" menu item, your receiver scans for unused frequency presets. After the scan, the receiver displays a list of the frequency banks and their unused channels. @@@@It is vital to observe the notes on frequency selection on page 42. @@@@the name of the performer) for the receiver. @@@@The next higher value (+21 dB) appears. The audio output level is increased.

@@@@@@@@In this case, "U.1" briefly appears on the display panel. @@@@Via the "Tune" menu item, you can set a receiving frequency to be stored in the current channel or you can select a different channel in the frequency bank "U" and assign this channel a receiving frequency. It is vital to observe the notes on frequency selection on page 42. Setting a receiving frequency for the current channel Press the UP/DOWN button until the "Tune" menu item appears. SET Press the SET button. The frequency selection appears. SET SET 40 25 10 RF PEAK 40 25 10 RF PEAK 0 -10 -20 -30 AF Advanced Menu Tune 531.375 MHz 0 -10 -20 -30 AF Tune 531.375 MHz B.

Ch: U. 1 40 25 10 RF PEAK 0 -10 -20 -30 AF Tune 534.208 MHz B.Ch: U. 1 Call up "Tune" Select the MHz value and confirm Select the kHz value; store the setting SET "Stored" Set the desired frequency. SET Press the SET button. Your settings are stored. You are back to the operating menu. 38 Adjustment tips and functions Selecting a channel and assigning this channel a receiving frequency Press the UP/DOWN button until the "Tune" menu item appears. SET Keep the SET button pressed until the channel selection appears.

SET SET 40 25 10 RF PEAK 40 25 10 RF PEAK 0 -10 -20 -30 AF Advanced Menu Tune 544.200 MHz 0 -10 -20 -30 AF Tune 544.200 MHz B.Ch: U. 1 40 25 10 RF PEAK 0 -10 -20 -30 AF Tune 544.200 MHz B.Ch: U. 1 Call up "Tune" (special function) Select the channel Set the frequency; store the setting SET "Stored" Set the desired channel. SET Press the SET button. The frequency selection appears.

Set the desired frequency. SET Press the SET button. Your settings are stored. You are back to the operating menu. Advanced Menu Tune Guitar Tuner Pilot Tone LCD Contrast Reset Software Revision Exit Changing the settings of the guitar tuner The following settings are available: Setting "Inactive" "Active" Meaning The "Guitar Tuner" standard display is deactivated (see page 24).

When selecting the "Guitar Tuner" standard display (see page 24), the receiver is not muted. "Audio Mute" When selecting the "Guitar Tuner" standard display (see page 24), the receiver is muted. 39 Adjustment tips and functions Advanced Menu Tune Guitar Tuner Pilot Tone LCD Contrast Reset Software Revision Exit Activating/deactivating the pilot tone evaluation The pilot tone supports the receiver's squelch function and protects against interference due to RF signals from other devices. The transmitter adds an inaudible signal, known as the pilot tone, to the transmitted signal.



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The receiver detects and evaluates the pilot tone.

Receiver display 40 25 10 RF PEAK Meaning ew100 G3 0 -10 -20 -30 AF 20.12 533.875 MHz MUTE The pilot tone evaluation deactivated. is 40 25 10 RF PEAK 0 -10 -20 -30 AF 20.12 P 533.875 MHz MUTE ew100 G3 The pilot tone evaluation activated. is 40 25 10 RF PEAK 0 -10 -20 -30 AF 20.12 P 533.875 MHz MUTE ew100 G3 The pilot tone evaluation is activated and the receiver receives a pilot tone from a transmitter. Devices of the ew 100 G1 series (generation 1) do not support the pilot tone function.

Therefore, please observe the following when combining a radio microphone or receiver of the ew 100 G3 series (generation 3) with devices from an earlier evolution wireless generation: Transmitter w G3/ w G2 w G3 w G1 Receiver Make sure to ... w G3/ w G2 ... activate the pilot tone function on both transmitter and receiver. w G1 w G3 ...

deactivate the pilot tone function on the ew 100 G3 transmitter. ... deactivate the pilot tone function on the ew 100 G3 receiver.

40 Adjustment tips and functions Advanced Menu Tune Guitar Tuner Pilot Tone LCD Contrast Reset Software Revision Exit Adjusting the contrast of the display panel SET 40 25 10 RF PEAK 0 -10 -20 -30 AF Advanced Menu LCD Contrast 9 40 25 10 RF PEAK 0 -10 -20 -30 AF LCD Contrast 9 40 25 10 RF PEAK 0 -10 -20 -30 AF LCD Contrast 15 Call up "LCD Contrast" Select the desired setting "Stored" Store the setting SET You can adjust the contrast of the display panel in 16 steps. Advanced Menu Tune Guitar Tuner Pilot Tone LCD Contrast Reset Software Revision Exit Resetting the settings made in the operating menu SET 40 25 10 RF PEAK 0 -10 -20 -30 AF Advanced Menu Reset 40 25 10 RF PEAK 0 -10 -20 -30 AF Reset No 40 25 10 RF PEAK 0 -10 -20 -30 AF Reset Yes Call up "Reset" Select the desired setting "Stored" Store the setting SET When resetting the settings made in the operating menu, only the selected settings for the pilot tone and for the frequency bank "U" remain unchanged. For an overview of the factory-preset default settings, refer to the supplied frequency information sheet. Advanced Menu Tune Guitar Tuner Pilot Tone LCD Contrast Reset Software Revision Exit Displaying the software revision You can display the current software revision of the receiver. 41 Synchronizing transmitters with receivers Synchronizing transmitters with receivers When synchronizing a transmitter with a receiver, please observe the following: Only use a transmitter and a receiver from the same frequency range (see the type plate on the transmitter and the receiver).

Make sure that the desired frequencies are listed in the enclosed frequency information sheet. Make sure that the desired frequencies are approved and legal in your country and, if necessary, apply for an operating license. Synchronizing a transmitter with the receiver individual operation Upon delivery, transmitter and receiver are synchronized with each other. If, however, you cannot establish a transmission link between transmitter and receiver, you have to synchronize the channels of the devices. With the receiver, perform a frequency preset scan to scan the frequency banks for unused channels ("Scan New List", see page 34). Then "Sync" appears on the display panel of the receiver. 40 25 10 RF PEAK 0 -10 -20 -30 AF Easy Setup B.Ch: 20.12 Sync 533.875 MHz Synchronize a transmitter with the receiver via the infra-red interface (see page 20).

This establishes a transmission link between the transmitter and the receiver. Alternatively, you can set the channel on the transmitter manually: Make sure that you set the transmitter to the same frequency bank and the same channel as the receiver (see the instruction manual of the transmitter). 42 Synchronizing transmitters with receivers Synchronizing transmitters with receivers multi-channel operation In order to ensure an intermodulation-free transmission, use the same frequency bank for all transmission links. Switch off all transmitters of your system that are to be automatically configured. Channels used by switched-on transmitters are displayed as "used". With one of the receivers, perform a frequency preset scan to scan the frequency banks for unused channels ("Scan New List", see page 34). Then "Sync" appears on the display panel of the receiver. 40 25 10 RF PEAK 0 -10 -20 -30 AF Easy Setup B.Ch: 20.12 Sync 533.875 MHz

Switch one of the transmitters on. Synchronize this transmitter with the receiver via the infra-red interface (see page 20). This establishes a transmission link between the transmitter and the receiver. Repeat for the remaining transmitter and receiver pairs as described above. Leave those transmitters switched on that are already linked to a receiver.

Your multi-channel system is now set up. Alternatively, you can set the channel on the transmitter manually: Make sure that you set the transmitter to the same frequency bank and the same channel as the receiver. For information on the setting options of the transmitter, refer to the instruction manual of the transmitter. You can also freely select the receiving frequencies and store these frequencies in the frequency bank "U". If you are using frequencies from the frequency banks "U", it might be that the receiving frequencies are not intermodulation-free.

To ensure that the desired frequencies are intermodulation-free: Contact your Sennheiser partner (see www.sennheiser.com). 43 Synchronizing transmitters with receivers If you want to use the frequency bank "U": Make sure to use receivers from the same frequency range (see page 5 and the type plates of the devices). Only use frequencies that are approved and legal in your country. On one of the receivers, select a channel within the frequency bank "U" (see page 39). Assign this channel one of the receiving frequencies (see page 39). Synchronize a transmitter with the receiver (see page 20). OR Manually set the transmitter to the same channel and frequency that you set on the receiver. Repeat for the remaining transmitters and receivers as described above.

44 Cleaning the receiver Cleaning the receiver CAUTION! Liquids can damage the electronics of the receiver! Liquids entering the housing of the receiver can cause a short-circuit and damage the electronics. Keep all liquids away from the receiver. Before cleaning, disconnect the receiver from the mains. Use a cloth to clean the receiver from time to time. Do not use any solvents or cleansing agents. 45 Recommendations and tips Recommendations and tips ... for optimum reception · Transmission range depends to a large extent on location and can vary from about 10 m to about 150 m. There should be a "free line of sight" between transmitting and receiving antennas.



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If, with the EM 100 G3 receiver, reception conditions are unfavourable, you should use two remote antennas which are connected via antenna cable. To avoid overloading the receiver, observe a minimum distance of 5 m between transmitting and receiving antennas. Observe a minimum distance of 50 cm between receiving antennas and metal objects (such as cross members or reinforced-concrete walls). Align the antennas upwards in a V-shape. . . .
.. for multi-channel operation · Each of the frequency banks "1" to "20" accommodates factorypreset receiving frequencies which are intermodulation-free. For possible frequency combinations, please refer to the supplied frequency information sheet. @@@@To do so, use the synchronization function (see page 20).

@@Reduce the distance between transmitter and receiving antennas. RF signal available, no audio signal, "MUTE" appears on the display panel Receiver is muted Transmitter is muted or doesn't transmit a pilot tone Cancel the muting on the receiver (see page 23). Cancel the muting on the transmitter (see the instruction manual of the transmitter). Activate the pilot tone transmission on the transmitter (see the instruction manual of the transmitter). Deactivate the pilot tone evaluation on the receiver (see page 40). Receiver's squelch threshold is adjusted too high Audio signal has a high level of background noise Audio signal is distorted Transmitter sensitivity is adjusted too low Transmitter sensitivity is adjusted too high Receiver's audio output level is adjusted too high Reduce the squelch threshold (see page 33). Reposition the antennas. @@@Reduce the audio output level (see page 36). 47 If a problem occurs ..

. @@@@Reduce the distance between transmitter and receiver. If a problem occurs that is not listed in the above table or if the problem cannot be solved with the proposed solutions, please contact your local Sennheiser partner for assistance. To find a Sennheiser partner in your country, search at www.sennheiser.com under "Service & Support". 48 Accessories and spare parts Accessories and spare parts The following accessories are available from your specialist dealer: Cat. No. Product name and description 503167 GA 3 rack adapter 009912 AM 2 antenna front mount kit (for GA 3 rack adapter) 503165 ASA 1 active antenna splitter, 2 x 1:4, for connecting four EM 100 G3 to two antennas/antenna boosters 503158 NT 1-1 EU Mains unit for powering the ASA 1 antenna splitter or the L 2015 charger, EU version 503873 NT 1-1 US Mains unit for powering the ASA 1 antenna splitter or the L 2015 charger, UK version 503157 NT 2-3 EU Mains unit for powering the EM 100 G3 stationary receiver, EU version 503870 NT 2-3 US Mains unit for powering the EM 100 G3 stationary receiver, 120 V version 503871 NT 2-3 UK Mains unit for powering the EM 100 G3 stationary receiver, UK version 49 Accessories and spare parts Antennas 004645 A 1031 antenna, broadband, omni-directional 003658 A 2003 antenna, broadband, directional Antenna boosters for ASA 1 502567 AB 3-A: 516558 MHz 502572 AB 3-G: 566608 MHz 502568 AB 3-B: 626668 MHz 502569 AB 3-C: 734776 MHz 502570 AB 3-D: 780822 MHz 502571 AB 3-E: 823865 MHz Antenna cables 002324 GZL 1019-A1 coaxial cable, type RG 58, BNC to BNC, 1 m 002325 GZL 1019-A5 coaxial cable, type RG 58, BNC to BNC, 5 m 002326 GZL 1019-A10 coaxial cable, type RG 58, BNC to BNC, 10 m 50 Specifications Specifications RF characteristics Modulation Frequency ranges Receiving frequencies wideband FM 516558, 566608, 626668, 734776, 780822, 823865 MHz (AE, G, see page 4) 1,680 receiving frequencies, tuneable in steps of 25 kHz 20 frequency banks, each with up to 12 factorypreset channels, intermodulation-free 1 frequency bank with up to 12 user programmable channels 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 Preset 1: "Flat" Preset 2: "Low Cut" Preset 3: "Low Cut/High boost" Preset 4: "High Boost" 3 dB at 180 Hz 3 dB at 180 Hz +6 dB at 10 kHz +6 dB at 10 kHz Sennheiser HDX 42 MHz ±24 kHz/±48 kHz true diversity < 2 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 51 Specifications S/N ratio (1 mV, peak deviation) THD AF output voltage (at peak deviation, 1 kHz AF) Adjustment range of audio output level Overall device Temperature range Power supply Current consumption Dimensions Weight 10°C to +55°C 12 V 300 mA approx. 190 mm x 212 mm x 43 mm approx. 980 g 110 dBA 0.9% ¼" (6.3 mm) jack socket (unbalanced): +12 dBu XLR socket (balanced): +18 dBu 48 dB, adjustable in steps of 3 dB +6 dB gain reserve Type approvals In compliance with Europe EMC EN 301489-1/-9 Radio EN 300422-1/-2 Safety EN 60065 47 CFR 15 subpart B USA Approved by Canada Industry Canada RSS 123 IC: 2099A-G3EM100 52 Specifications Mains unit* NT 21 Input voltage Power/Current consumption Output voltage Secondary output current Energy efficiency level Temperature range * depending on country variant In compliance with (mains unit) Europe EMC Safety USA Canada EN 55022, EN 55024, EN 55014-1/-2 EN 60065 110 V~ or 230 V~, 50/60 Hz 9 VA 13 V 300 mA IV 10°C to +40°C NT 23 100 to 240 V~, 50/60 Hz max.

120 mA 12 V 400 mA IV 10°C to +40°C 47 CFR 15 subpart B ICES 003 The mains unit is certified in accordance with the legal safety requirements of Europe, the United States, Canada, Russia and Japan. Connector assignment Audio ¼" (6.3 mm) stereo jack plug, balanced XLR-3F connector, balanced +2 3 1 Other connectors ¼" (6.3 mm) mono jack plug, unbalanced DC connector for power supply 53 Manufacturer Declarations Manufacturer Declarations Warranty Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on this product.

For the current warranty conditions, please visit our website at www.sennheiser.com or contact your Sennheiser partner. In compliance with the following requirements · · RoHS Directive (2002/95/EC) WEEE Directive (2002/96/EC) Please dispose of the receiver at the end of its operational lifetime by taking it to your local collection point or recycling center for such equipment. CE Declaration of Conformity · · 0682 R&TTE Directive (1999/5/EC), EMC Directive (2004/108/EC), Low Voltage Directive (2006/95/EC) The declarations are available at www.sennheiser.com. Before putting the device into operation, please observe the respective country-specific regulations.



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54 Manufacturer Declarations Statements regarding FCC and Industry Canada This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: . . . Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. This class B digital device complies with the Canadian ICES-003. Changes or modifications made to this equipment not expressly approved by Sennheiser electronic Corp. may void the FCC authorization to operate this equipment. Before putting the device into operation, please observe the respective country-specific regulations!

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