

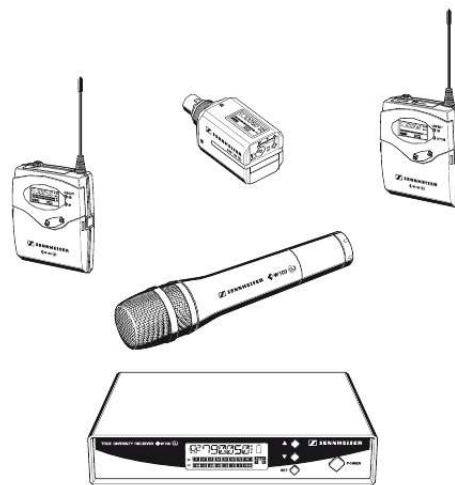


Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER EW 135 G2. You'll find the answers to all your questions on the SENNHEISER EW 135 G2 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 G2
User guide SENNHEISER EW 135 G2
Operating instructions SENNHEISER EW 135 G2
Instructions for use SENNHEISER EW 135 G2
Instruction manual SENNHEISER EW 135 G2

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Manual abstract:

Use the units in dry rooms only. Use a damp cloth for cleaning the units. @@Over half a century of accumulated expertise in the design and manufacture of high-quality electro-acoustic equipment have made Sennheiser a world-leading company in this field. Please take a few moments to read these instructions carefully, as we want you to enjoy your new Sennheiser products quickly and to the fullest.

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... 46 46 46 46 3 The evolution wireless series ew 100 G2 With the evolution wireless series ew 100 G2, Sennheiser offers musicians, video and sound amateurs 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 excellent transmission reliability of the ew 100 G2 series is based on the use of further optimized PLL synthesizer and microprocessor technology, the HDX noise reduction system, the pilot tone squelch control, the true diversity technology (rack-mount receiver only) and the scan function for scanning the

CH appears when the channel bank and the channel number are displayed "MHz" appears when the frequency is displayed 4-step battery status display Lock mode icon (lock mode is activated) "PILOT" display (pilot tone transmission is activated) "MUTE" display (audio input is muted) 7-step level display for audio signal "AF", Red LED for operation and battery status indication (ON/LOW BAT) ¹ ON/OFF button (serves as the ESC (cancel) key in the operating menu) MUTE switch 10 Indications and displays on the receivers Operation and battery status indication (EK 100 G2 only) The red LED (LOW BAT/ON) state of the EK 100 G2: Red LED lit up: provides information on the current operating » The receiver is switched on and the capacity of the batteries/accupack BA 2015 is sufficient. The batteries are/the accupack BA 2015 is going flat (LOW BAT)! Red LED flashing: In addition, the 4-step battery status display on the display panel provides information on the remaining battery/accupack BA 2015 capacity: 3 segments: 2 segments: 1 segment: Battery icon flashing: capacity approx. 100 % capacity approx. 70 % capacity approx.

30 % LOW BAT Transmitter battery status indication (EM 100 G2 only) When the capacity of the transmitter batteries/accupack is so low that the batteries/accupack must soon be replaced (LOW BAT), the transmitter transmits information on its remaining battery/accupack capacity to the EM 100 G2 receiver and the transmitter low battery icon starts flashing on the receiver display panel. "MUTE" display The "MUTE" display or appears when the RF signal of the received transmitter is too weak, EM 100 G2 the received transmitter has been muted (with the pilot tone transmission or evaluation activated).

EK 100 G2 RF signal indication (EK 100 G2 only) The green LED (RF) at the front of the EK 100 G2 lights up when an RF signal is being received. ζ 11 Modulation display of the receiving transmitter The level display for audio signal "AF" shows the modulation of the transmitter. When the transmitter's audio input level is excessively high (AF peak), the receiver's level display for audio signal "AF" shows full deflection.

EM 100 G2 EK 100 G2 "PILOT" display The "PILOT" display or lights up when the pilot tone evaluation is activated (see: „Activating/deactivating the pilot tone transmission or pilot tone evaluation" on page 35). EM 100 G2 EK 100 G2 EK 100 G2 Diversity display (EM 100 G2 only) The EM 100 G2 receiver operates on the true diversity principle (see: „Diversity reception" on page 41). The diversity display indicates whether diversity section I (i.e. antenna 1) or diversity section II (i.e. antenna 2) is active. Display backlighting (EK 100 G2 only) After pressing a button, the display remains backlit for approx. 15 seconds. 12 Indications and displays on the transmitters Operation and battery status indication The red LED (LOW BAT/ON) provides information on the current operating state of the transmitter: Red LED lit up: Red LED flashing: The transmitter is switched on and the capacity of the batteries/accupack BA 2015 is sufficient.

The batteries are/the accupack BA 2015 is going flat (LOW BAT)! In addition, the 4-step battery status display on the display panel provides information on the remaining battery/accupack BA 2015 capacity: 3 segments: 2 segments: 1 segment: Battery icon flashing: "MUTE" display The "MUTE" display appears on the display panel when the transmitter is muted (see: „Muting the transmitters" on page 23). capacity approx. 100 % capacity approx. 70 % capacity approx. 30 % LOW BAT Modulation display The level display for audio signal (AF) shows the modulation of the transmitter. AF peak indication (SK 100 G2 only) The yellow LED (AF PEAK) at the front of the SK 100 G2 lights up when the audio input level is excessively high (AF peak) and overmodulates the transmitter. At the same time, the 7-step level display for audio signal "AF" shows full deflection for the duration of the overmodulation. ζ "PILOT" display The "PILOT" display lights up when the transmitter display panel if the pilot tone transmission is activated (see: „Activating/deactivating the pilot tone transmission or pilot tone evaluation" on page 35). Display backlighting (SK 100 G2 only) After pressing a button, the display remains backlit for approx. 15 seconds.

13 Preparing the components for use EM 100 G2 rack-mount receiver Mounting the receiver feet To ensure that the receiver cannot slip on the surface on which it is placed, four self-adhesive soft rubber feet are supplied. Ensure that the base of the receiver is clean before mounting the rubber feet. Fix the rubber feet to the base of the receiver by peeling of the safety paper and fitting them as shown in the digram on the left. Attention! Some furniture surfaces have been treated with varnish, polish or synthetics which might cause stains when they come into contact with other synthetics. Despite a thorough testing of the synthetics used by us, we cannot rule out the possibility of staining.

Connecting the antennas The supplied telescopic antennas can be mounted quickly and easily to the rear of the receiver and are suitable for all applications where good reception conditions provided a wireless transmission system is to be used without a large amount of installation work. Connect the telescopic antennas to the BNC sockets , and of the receiver. Pull the telescopic antennas at the rear out and align the upwards in a V-shape. , Use remote antennas when the receiver position is not the best antenna position for optimum reception. Connecting the mains unit The EM 100 G2 is powered via a mains unit.

Pass the cable through the cable grip ? Insert the DC connector on the mains cable into the DC socket ¶. ² ¶ 14 Connecting the amplifier/mixing console The EM 100 G2's audio outputs are available as an XLR-3M socket and a ¼" (6.3 mm) jack socket , allowing you to simultaneously connect two units (e.g. amplifier, mixing console). The adjusted audio output level is common for both sockets. Connect the amplifier/mixing console to the XLR-3M socket ¼" (6.3 mm) jack socket . or the For detailed information on balanced and unbalanced connection, please refer to the section "Connector assignment" auf Seite 43.

° ¾ Via the operating menu, adapt the level of the audio output (AF OUT) to the input of the amplifier or mixing console (see: „Adjusting the audio output level (receivers only)" on page 33). Service interface The service interface μ is only required for servicing purposes. μ 19" rack adapter and antenna mount (accessories) For mounting one or two receivers into a 19" rack, you require the GA 2 rack adapter.



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The GA 2 rack adapter consists of: 2 rack mount "ears" 1 connecting bar 1 connecting plate 2 covering plugs for antenna holes 12 recessed head screws M 3x6 2 recessed head screws M 6x10 When mounting only one receiver into a rack, you can use the AM 2 antenna mount (available as an accessory) to mount the transmitter's antenna connection to the front of the GA 2 rack adapter. The AM 2 antenna mount consists of: 2 BNC extension cables (screw-in BNC socket 2 plain washers 2 nuts to BNC connector) 15 To mount two EM 100 G2 into a rack: Place the two receivers side by side onto a flat surface, their bottom sides facing upwards. Align the connecting plate over the holes in the bottom sides of the receivers. Secure the connecting plate to the receivers using eight of the supplied recessed head screws (M 3x6). Hook the two rack mount "ears" panels of the receivers. to the front Secure the rack mount "ears" to the receivers using two of the supplied recessed head screws (M 3x6) respectively. Slide the receivers into a 19" rack.

Screw the rack mount "ears" tight. When mounting only one receiver into a rack, use the connecting bar instead of the second receiver. Hook the two rack mount "ears" panel of the receiver. to the front Secure the rack mount "ears" to the receiver using two of the supplied recessed head screws (M 3x6) respectively. Secure the connecting bar to one of the rack mount "ears" using two of the supplied recessed head screws (M 6x10).

If you are not front mounting the antennas, insert the two covering plugs into the antenna holes of the connecting bar. Slide the receiver into a 19" rack. Screw the rack mount "ears" tight. To mount the receiver's antenna connection to the front of the GA 2 rack adapter using the AM 2 antenna mount: Screw the two BNC sockets of the BNC extension cables to the connecting bar using the supplied plain washers and nuts. Connect the two BNC connectors to the BNC sockets , and at the rear of the receiver.

Slide the receiver into a 19" rack. Screw the rack mount "ears" tight. Connect the two telescopic antennas BNC sockets . to the two Pull the telescopic antennas out and align them upwards in a V-shape. 16 EK 100 G2 bodypack receiver Inserting and replacing the batteries ^{3/4} For powering the EK 100 G2 bodypack receiver, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack. Press the two unlocking buttons cover . and open the battery compartment Insert the two batteries or the BA 2015 accupack as shown in the diagram on the left. Please observe correct polarity when inserting the batteries/ accupack. Close the battery compartment.

The battery compartment cover into place and clicks. locks ° Note: For accupack operation of the receiver, only use the BA 2015 accupack In order to ensure optimum operational reliability. For charging the accupack, only use the L 2015 charger. Both the accupack and the charger are available as accessories.

The accupack is fitted with an integrated sensor which is via a third contact monitored by the electronics of the receiver and the charger. The sensor is necessary for the following control purposes: The taking into account of the different voltage characteristics of primary cells (batteries) and accupacks. The battery status indications on the displays, the transmission of transmitter battery status information to the rack-mount receivers and the switch-off thresholds at the end of the operating time are corrected correspondingly. Due to the missing sensor, individual rechargeable battery cells will not be identified as accupacks. The monitoring of the accupack temperature during charging in the L 2015 charger. The prevention of improper charging of inserted primary cells (batteries).

Due to the missing sensor, individual rechargeable battery cells will also not be charged in the L 2015 charger. Connecting units to the audio output You can connect a PA system or a recording unit (e.g. video camera) to the EK 100 G2 bodypack receiver. Connect one of the supplied line output cables to the recording unit.

Connect the 3.5 mm jack plug to the audio output (AF OUT) . Lock the 3.5 mm jack plug by screwing down the coupling ring. ³ Via the operating menu, adapt the level of the audio output (AF OUT) to the input sensitivity of the connected unit (see: „Adjusting the audio output level (receivers only)" on page 33).

17 Mounting the bodypack receiver to a camera Use the supplied camera kit to mount the receiver to the camera's flash mount. The camera kit consists of: 1 perforated plate ¹ 1 flash mount adapter 2 square nuts Determine where on the perforated plate the flash mount adapter will need to be fastened so that the receiver can best be attached to the camera. At this position, place a square nut under the perforated plate ¹ . ¹ Fasten the flash mount adapter to the perforated plate using the square nut. Remove the belt clip. Place the perforated plate ¹ onto the rear of the receiver. Reinsert the belt clip. SK 100 G2 bodypack transmitter Inserting and replacing the batteries ^{3/4} For powering the SK 100 G2 bodypack transmitter, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack. Press the two unlocking buttons cover .

and open the battery compartment Insert the two batteries or the BA 2015 accupack as shown in the diagram on the left. Please observe correct polarity when inserting the batteries/ accupack. Close the battery compartment. The battery compartment cover into place with an audible click. locks ° Note: For important informations on charging the accupack see: „Inserting and replacing the batteries" on page 17. Connecting the microphone/line cable The microphone/line input is designed for the connection of both condenser microphones and instruments (e.g. guitars). DC powering of the condenser microphones is via the microphone/line input. Connect the 3.

5 mm jack plug 3.5 mm jack socket (MIC/LINE) from the microphone/line cable to the . . Lock the 3.5 mm jack plug by screwing down the coupling ring ³ Via the operating menu, adjust the sensitivity of the microphone/line input (MIC/LINE) (see: „Adjusting the sensitivity (transmitters only)" on page 32).

18 Attaching the microphones Use the microphone clips to attach the ME 2 and ME 4 clip-on microphones to clothing (e.g. tie, lapel). Adjust the ME 3 headmic so that a comfortable and secure fit is ensured. Positioning the microphones The ME 3 and ME 4 microphones are directional microphones, i. e. their sound inlet should always be directed towards the sound source (e.g. mouth). The ME 2 with omni-directional pick-up pattern picks up sound equally from all directions. It is the best choice if movements of the speaker's head have to be compensated for.



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However, it should be attached as close as possible to the sound source. Adjust the sensitivity correctly for all microphones/usages (see: „Adjusting the sensitivity (transmitters only)" on page 32). SKP 100 G2 plug-on transmitter Inserting and replacing the batteries For powering the SKP 100 G2 plug-on transmitter, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack.

¾ Slide the battery compartment cover arrow and open the cover. in the direction of the embossed Insert the two batteries or the BA 2015 accupack as shown in the diagram on the left. Please observe correct polarity when inserting the batteries/ accupack. ¾ Close the battery compartment. The battery compartment cover into place with an audible click. Note: locks For accupack operation of the transmitter, only use the BA 2015 accupack In order to ensure optimum operational reliability. For charging the accupack, only use the L 2015 charger. Both the accupack and the charger are available as accessories. The accupack is fitted with an integrated sensor which is via a third contact monitored by the electronics of the transmitter and the charger. The sensor is necessary for the following control purposes: The taking into account of the different voltage characteristics of primary cells (batteries) and accupacks. The battery status indications on the displays, the transmission of transmitter battery status information to the rack-mount receivers and the switch-off thresholds at the end of the operating time are corrected correspondingly. Due to the missing sensor, individual rechargeable battery cells will not be identified as accupacks. The monitoring of the accupack temperature during charging in the L 2015 charger. 19 3 · Plugging the plug-on transmitter onto a microphone Plug the transmitter's XLR-3F socket Tighten the locking ring Note: The transmitter uses the microphone body as an antenna therefore only microphones with a metal casing should be used for best signal transmission. onto the microphone's XLR-3M socket.

as shown in the diagram on the left. SKM 100 G2 radiomicrophone » Inserting and replacing the batteries For powering the SKM 100 G2 radiomicrophone, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack. Unscrew the display section turning it counterclockwise.

Slide back the display section from the radiomicrophone's body as far as it will go.

. by ´ Open the battery compartment cover Insert the two batteries or the BA 2015 accupack as shown in the diagram on the left. Please observe correct polarity when inserting the batteries/ accupack. Close the battery compartment cover . Push the battery compartment into the radiomicrophone's body. Screw the display section tight. Note: For important informations on charging the accupack see: „Inserting and replacing the batteries" on page 19. 20 Changing the microphone head First remove the batteries/accupack as described above and leave the radiomicrophone open. Unscrew the sound inlet basket. Loosen the screw and put it to one side.

Gently ease the capsule out of the contacts and then pull it out of the housing as shown. Do not touch the contacts and the diaphragm! Insert the new capsule. Secure the capsule by tightening the screw. Note: The screw mechanically secures the microphone capsule. If the screw is missing, malfunctions may occur during tough use. Put on the sound inlet basket and identification ring supplied with the new microphone head (NB: do NOT use the old basket, as the different heads use slightly differing internal foam) and screw it tight. Insert the batteries/accupack. Close the radiomicrophone and put it into operation. Note: Microphone capsule, sound inlet basket and foam insert form an acoustic unit and must therefore always be exchanged all together. Each microphone head comes with a color-coded identification ring to distinguish different microphone heads from each other (green = MD 835, blue = MD 845, red = ME 865).

21 Using the components Switching the components on/off The ew 100 G2 transmitters and receivers can only be switched off when the standard display is shown on the display panel. Within the operating menu, the ON/OFF button or the POWER button (EM 100 G2 only) serves as the ESC (cancel) key, i.e you cancel your entry and return to the standard display. Note: Remove the batteries or the accupack when the units will not be used for extended periods of time.

Switching the rack-mount receiver on/off Press the POWER button ´ to switch the receiver on.

To switch the receiver off, press the POWER button until "OFF" appears on the display. ´ Switching the bodypack receiver/transmitter on/off Press the two unlocking buttons cover . @@The red LED » lights up. @@The red LED » goes off. Close the battery compartment.

The battery compartment cover into place with an audible click. @@to switch the plug-on transmitter on. @@@@Press the ON/OFF button to switch the radiomicrophone on. The red LED , lights up. @@@@Set the MUTE switch to the position 'MUTE'. @@@@@belt, waistband) with the supplied belt clip. @@@@The current setting that can be adjusted flashes on the display. Adjusting a setting Press the / buttons to adjust the setting. By briefly pressing the / buttons, the display jumps either forwards or backwards to the next setting. In the "CHAN", "TUNE" and "NAME" menu, the / buttons feature a "fast search" function.

If you hold down a button, the display cycles continuously. The "fast search" function allows you to get fast and easily to your desired setting. The new setting flashes on the display until it is stored. Storing a setting Press the SET button to store the setting. "STORED" appears on the display, indicating that the setting has been stored. The display then returns to the previous menu level. With most menus, new settings become effective immediately without having to be stored. An exception are the "BANK", "CHAN", "TUNE" and "RESET" menus of the transmitters and the "RESET" menu of the receivers. With these menus, new settings only become effective after they have been stored ("STORED" appears on the display, indicating that the setting has been stored). Exiting the operating menu Select the "EXIT" menu to exit the operating menu and to return to the standard display.

When you have entered the operating menu, the ON/OFF button or the POWER button (EM 100 G2 receiver only) serves as the ESC (cancel) key, i.e. by briefly pressing the ON/OFF or POWER button, you cancel your entry and return to the standard display. 26 Operating menu of the receivers EXIT SET BANK Changing the channel bank SET BANK 1 Current channel bank / BANK U : 1.



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04 B . CH 790.100 : Channel Current channel (display depends on "DISPLY" setting) / 01...04 SET: Stores the setting STORED TUNE Setting the frequency for channel bank "U" SET 790.025 Current frequency on the selected channel 791.125 / : Receiving frequency in steps of 25 kHz SET: Stores the setting STORED SCAN Scanning the selected channel bank for free channels SET U. START U. / CLEAR : CLEAR, START 04 CH FREE SET Start scan = START SET: Scans the selected channel bank for free channels Delete result = CLEAR SET: Releases locked channels STORED AF OUT Setting the audio output level SET LEV +18 18 Current audio output level / LEV -24 : (in steps of 6 dB): EM 100 G2:+18.

..0...-24 dB EK 100 G2: +12...0..

.-30 dB SET: Stores the setting STORED SQUELCH Setting the squelch threshold SET SQ LO Current squelch threshold / SQ HI : LO, MID, HI SET: Stores the setting STORED DISPLY 27 SQUELCH DISPLY Switching between the standard displays SET FREQ Current standard display NAME / : Select standard display EM 100 G2: FREQ, NAME EK 100 G2: FREQ, NAME, CHAN STORED SET SET: Stores the setting NAME Assigning the receiver a name VOCAL Current receiver name / GUCAL : Enter a name (6 characters) STORED RESET Loading the factory preset default settings SET Letters w/o pronunciation marks, numbers from 0...9, special characters, spaces SET: 5 x next character, then store RST.

NO Security check / RST. OK : OK, NO "reset" = OK: SET: Receiver loads factory-preset default settings (only pilot tone setting is kept), receiver is restarted, standard display appears "reset" = NO SET: Reset is cancelled PILOT Activating/deactivating the pilot tone evaluation SET PLT. ON Pilot tone evaluation activated or deactivated PLT. OFF / : ON, OFF SET: Stores the setting STORED LOCK Activating the lock mode SET LOC.OFF OFF Lock mode activated or deactivated LOC.

ON ON / : ON, OFF Lock mode = ON: SET: Stores the setting (STORED), returns to standard display STORED EXIT Exiting the operating menu SET Lock mode = OFF: SET: Stores the setting BANK 28 Operating menu of the transmitters EXIT SET BANK Changing the channel bank SET BANK 1 Current channel bank BANK U / : 1...8, U (User Bank) SET: Stores the setting STORED SET CHAN Changing the channel 1.03 B.CH / 1.02 : Channel B.CH Current channel (display depends on "DISPLY" setting) 01...

04 SET: Stores the setting STORED TUNE Setting the frequency for channel bank "U" SET 790.025 MHz 791.125 MHz Current frequency on the selected channel / : Transmission frequency in steps of 25 kHz SET: Stores the setting STORED SENSIT Setting the sensitivity SET -10 dB Current sensitivity setting / -30 dB : SK 100 G2: 0...-30 dB SKM 100 G2: 0...-30 dB SKP 100 G2: 0..

.-50 dB SET: Stores the setting STORED SET DISPLY Switching between the standard displays FREQ Current standard display / NAME : FREQ, NAME, CHAN SET: Stores the setting STORED NAME 29 DISPLY NAME Assigning the transmitter a name SET VOCAL Current transmitter name / GUCAL : Transmitter name (6 characters) STORED RESET Loading the factory preset default settings SET Letters w/o pronunciation marks, numbers from 0...9, special characters, spaces SET: 5 x next character, then store RST.

NO Security check / RST. OK : OK, NO "reset" = OK: SET: Transmitter loads factory-preset default settings (only pilot tone setting is kept), transmitter is restarted, standard display appears "reset" = NO SET: Reset is cancelled PILOT Activating/deactivating the pilot tone transmission SET PLT. ON Pilot tone transmission activated or deactivated PLT. OFF / : ON, OFF SET: Stores the setting STORED LOCK Activating the lock mode SET LOC.OFF OFF Lock mode activated or deactivated LOC.

ON ON / : ON, OFF Lock mode = ON: SET: Stores the setting (STORED), returns to standard display Lock mode = OFF: SET: Stores the setting STORED EXIT Exiting the operating menu SET BANK 30 Adjustment tips for the operating menu Switching between channel banks BANK Via the "BANK" menu, you can switch between the nine channel banks of the transmitters and receivers. The channel banks "1" to "8" have four switchable channels that are factory-preset to a transmission/receiving frequency (see: „The channel bank system" on page 4). The channel bank "U" (user bank) has four switchable channels to store your selection out of 1440 transmission/receiving frequencies that are freely selectable within the preset frequency range. When switching from one channel bank to another, the channel with the lowest channel number is automatically displayed. If, during the last scan of this channel bank, an interfering frequency was detected on the channel with the lowest channel number (see: „Scanning the channel banks for free channels (receivers only)" on page 31), the receiver display panel automatically displays the next free channel. Switching between the channels in a channel bank CHAN Via the "CHAN" menu, you can switch between the four channels in a channel bank. Always set the transmitter and the receiver of a transmission link to the same channel. After scanning a channel bank (see: „Scanning the channel banks for free channels (receivers only)" on page 31), only the free channels are displayed. Set the transmitter to one of the free channels. Selecting the frequencies to be stored in the channel bank "U" TUNE Via the "TUNE" menu, you can select the frequencies to be stored in the channel bank "U" (user bank).

When you have selected one of the channel banks "1" to "8" and then select the "TUNE" menu, the transmitter or receiver automatically switches to channel 01 of the channel bank "U". In this case, "U.01" briefly appears on the display. Use the / buttons to select the desired transmission or receiving frequency.

Transmission and receiving frequencies are tunable in 25-kHz steps within a switching bandwidth of 36 MHz max. For intermodulation-free frequencies, please refer to the enclosed frequency table. Scanning the channel banks for free channels (receivers only) SCAN Before putting one or several transmission links into operation, you should scan the selected channel bank for free channels In order to ensure intermodulation-free operation of your system. 31 Starting the scan and storing the scan result Before starting the scan, switch all transmitters of your system off, since channels used by switched-on transmitters will not be displayed as "free channels".



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Select the "SCAN" menu. Select "START" and confirm your selection by pressing the SET button.

After the scan is completed, the number of free channels is displayed. Pressing the SET button once more will store the scan result and lock all channels that are used or subject to interference. Releasing locked channels Select the "SCAN" menu. Select "CLEAR" and confirm your selection by pressing the SET button. All channels in this channel bank can now be selected again.

Multi-channel operation For multi-channel operation, only use the free channels in a channel bank. Before putting the transmission links into operation, we recommend performing an auto scan. Select a channel bank on a receiver. Scan this channel bank for free channels. If not enough free channels are available in the selected channel bank, repeat the scan with another channel bank.

Apply the scan result to all other transmitters and receivers. Adjusting the sensitivity (transmitters only) SENSIT Via the "SENSIT" menu, you can adjust the modulation level of the transmitters. This changes the transmitter's input sensitivity. The input sensitivity is adjusted too high when close talking distances, speakers with loud voices or loud music passages cause overmodulation in the transmission link. In this case, the SK 100 G2's yellow LED (AF PEAK) will light up and the receiver's level display for audio signal (AF) will show full deflection (see: „Modulation display of the receiving transmitter" on page 12). If, on the other hand, the sensitivity is adjusted too low, the transmission link will be undermodulated, which would result in a signal with high background noise. The sensitivity is correctly adjusted when the level display for audio signal "AF" shows full deflection only during the loudest passages. EM 100 G2 EM 100 G2 Note: For monitoring the adjusted sensitivity, the transmitter's level display for audio signal (AF) always indicates the audio level even if the transmitter is muted. EK 100 G2 ; 32 The following figures are a guide to the best settings: Loud music/vocals: Presentations: Interviews: Musical instruments: electric guitars with single coil pickups: electric guitars with humbucker pickups: guitars with active electronics (active pickups, active EQs, piezo pickups): Special feature of the SKP 100 G2 plug-on transmitter: In order to be able to use highly sensitive directional condenser microphones with separate powering, the SKP 100 G2 plug-on transmitter offers a sensitivity range extended by 20 dB. With the transmitter plugged onto a directional condenser microphone, the following figures are a guide to the best settings: Loud music/vocals: Presentations: Interviews: 50 to 40 dB 40 to 30 dB 30 to 20 dB 10 to 0 dB 20 to 10 dB 30 to 20 dB 30 to 20 dB 20 to 10 dB 10 to 0 dB Adjusting the audio output level (receivers only) AF OUT Via the "AF OUT" menu, you can adjust the audio output level of the receivers.

The level can be adjusted in eight steps. Adapt the level of the audio output (AF OUT) to the input of the connected unit. The following figures are a guide to the best settings: EM 100 G2 Line level input: Microphone level input: 0 bis +18 dB 24 bis 6 dB EK 100 G2 0 bis +12 dB 30 bis 6 dB Adjusting the squelch threshold (receivers only) SQELCH The receiver is equipped with a squelch that can be adjusted via the "SQELCH" menu. 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. Note:

Before adjusting the squelch threshold to a different setting, set the volume on a connected amplifier to the minimum. There are three possible squelch settings: LO MID HI = low = middle = high Selecting the setting "LO" reduces the squelch threshold, selecting the setting "HI" increases the squelch threshold. Adjust the squelch threshold with the transmitter switched off to the lowest possible setting that suppresses hissing noise. 33 IMPORTANT! Notes: If the squelch threshold is adjusted too high, the transmission range will be reduced. Therefore, always adjust the squelch threshold to the lowest possible setting.

The squelch threshold is factory-preset to "LO". When in the setting mode of the "SQELCH" menu, pressing the button (DOWN) for more than three seconds will switch the squelch off. "SQ.OFF" appears on the display. If no RF signal is being received, hissing noise will occur.

This setting is for test purposes only. Selecting the standard display DISPLY selectable Standard display EM 100 G2 Via the "DISPLY" menu, you can select the standard display: Contents of standard display EK 100 G2 SK 100 G2, SKM 100 G2, SKP 100 G2 „FREQ" „NAME" „CHAN" Entering a name NAME Via the "NAME" menu, you can enter a freely selectable name for each transmitter and receiver. You can, for example, enter the name of the performer for whom the adjustments have been made. The name can be displayed on the standard display and can consist of up to six characters such as: letters (without pronunciation marks), numbers from 0 to 9, special characters e.g.

() - . _ and spaces. To enter a name, proceed as follows: Press the SET button to get into the setting mode of the "NAME" menu. The first segment starts flashing on the display. With the / buttons you can now select a character. By briefly pressing a button, the display jumps either forwards or backwards to the next character. If you hold down a button, the display starts cycling continuously. Press the SET button to change to the next segment and select the next character. Have you entered the name completely? Press the SET button to store your setting and to return to the previous menu level. 34 Loading the factory-preset default settings RESET Via the "RESET" menu, you can load the factory-preset default settings.

Only the selected setting for the pilot tone remains unchanged. After the reset, the unit is restarted and the standard display is shown on the display panel.

Activating/deactivating the pilot tone transmission or pilot tone evaluation PILOT Via the "PILOT" menu, you can activate or deactivate the pilot tone transmission of the transmitters and the pilot tone evaluation of the receivers. The pilot tone supports the squelch function (SQELCH) and protects against interference due to RF signals from other units. The transmitter adds an inaudible signal, known as the pilot tone, to the transmitted signal. The receiver detects and evaluates the pilot tone, and is thus able to identify the signal of the matching transmitter and mute all others. Transmitters of the ew 100 series (first generation) do not transmit a pilot tone and receivers of the ew 100 series (first generation) cannot evaluate the pilot tone.



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Nevertheless, you can combine units of the ew 100 series (first generation) with units of the ew 100 G2 series (second generation). However, when combining units, please observe the following: With an ew 100 G2 transmitter and an ew 100 G2 receiver: Activate the pilot tone function with both transmitter and receiver. With an ew 100 transmitter and an ew 100 G2 receiver or vice versa: Deactivate the pilot tone function with the ew 100 G2 transmitter or receiver.

Activating/deactivating the lock mode LOCK Via the "LOCK" menu, you can activate or deactivate the lock mode. The lock mode prevents that the transmitter or receiver is accidentally programmed or switched off during operation. The lock mode icon on the display indicates that the lock mode is activated. To deactivate the lock mode, first press the SET button. Then press the / EM 100 G2 buttons to select "Lock Off".

If you confirm your selection by pressing the SET button, "LOC.OFF" appears on the display and the buttons can be operated as usual. EK 100 G2 Transmitters Exiting the operating menu Via the "EXIT" menu, you can exit the operating menu and return to the standard display. 35 If problems occur Error checklist Problem No operation indication Possible cause Batteries are flat or accupack is flat No mains connection (EM 100 G2) No RF signal Possible solution Replace the batteries or recharge the accupack Check the connections of the mains unit Transmitter and receiver are not on the Set transmitter and receiver to the same channel same channel Transmitter is out of range Check the squelch threshold setting (see: „Adjusting the squelch threshold (receivers only)" on page 33) or reduce the distance between transmitter and receiving antenna Deactivate the muting function RF signal available, no audio signal, "MUTE" display appears on the display panel Transmitter is muted ("MUTE") Receiver's squelch threshold is adjusted see „Adjusting the squelch threshold too high (receivers only)" on page 33 Transmitter doesn't transmit a pilot tone see „Activating/deactivating the pilot tone transmission or pilot tone evaluation" on page 35 Audio signal has a high level of background noise Transmitter sensitivity is adjusted too see „Adjusting the sensitivity low (transmitters only)" on page 32 Receiver's AF output level is adjusted too low see „Adjusting the audio output level (receivers only)" on page 33 Audio signal is distorted Transmitter sensitivity is adjusted too see „Adjusting the sensitivity high (transmitters only)" on page 32 Receiver's AF output level is adjusted too high see „Adjusting the audio output level (receivers only)" on page 33 No access to a certain channel During scanning, an RF signal has been see „Scanning the channel banks for detected on this channel and the free channels (receivers only)" on channel has been locked page 31 During scanning, a transmitter of your see „Multi-channel operation" on system operating on this channel has page 32 not been switched off If problems occur that are not listed in the above table or if the problems cannot be solved with the proposed solutions, please contact your local Sennheiser agent for assistance. 36 Recommendations and tips .

.. for the ME 2 and ME 4 clip-on microphones To reduce level variations to a minimum when the user turns his or her head away from the microphone, attach the microphone as centrally as possible. To protect the microphone against excessive sweat/moisture, avoid direct skin contact. Attach the microphone carefully and conduct the cable so that noise due to friction is avoided. Always use the ME 4 directional microphone with a windshield and direct the microphone towards the sound source (e.g. mouth). ..

. for the ME 3 headmic Always use the microphone with a popshield and position the microphone at the corner of the mouth. You can vary the bass reproduction by increasing/decreasing the talking distance to the microphone. Make sure that the sound inlet is directed towards the mouth. The sound inlet is marked with a little dot. ... for the SK 100 G2 bodypack transmitter Make sure that the antenna and the microphone cable do not cross. The antenna should hang freely and be at least 1 cm away from the body.

The antenna must not be in direct contact with the skin. For best results, make sure that the transmitter sensitivity is correctly adjusted. ...

for the SKM 100 G2 radiomicrophone Hold the SKM 100 G2 in the middle of the microphone body. Holding it close to the sound inlet basket will influence the microphone's pick-up pattern, holding it at the lower part of the body will reduce the transmitter's range. You can vary the bass reproduction by increasing/decreasing the talking distance to the microphone. For best results, make sure that the transmitter sensitivity is correctly adjusted. .

.. for the EK 100 G2 bodypack receiver The antenna should hang freely and be at least 1 cm away from the body. The antenna must not be in direct contact with the skin. ... 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. If, with the EM 100 G2 receiver, reception conditions are unfavourable, you should use two remote antennas which are connected via antenna cable.

To avoid overmodulating 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). 37 ... for multi-channel operation For multi-channel operation, you can only use the channels in a channel bank. Each of the channel banks "1" to "8" accommodates four factorypreset frequencies which are intermodulation-free. For alternative frequency combinations, please refer to the enclosed frequency table. The freely selectable frequencies can be selected via the "TUNE" menu and can be stored in the channel bank "U". When using several transmitters simultaneously, interference can be avoided by maintaining a minimum distance of 20 cm between two transmitters.

Use special accessories for multi-channel applications (see: „Accessories" on page 45). Care and maintenance Use a slightly damp cloth to clean the units from time to time. Note: Do not use any cleansing agents or solvents. To clean the SKM 100 G2's sound inlet basket, proceed as follows: Unscrew the sound inlet basket (turn counterclockwise) and remove it. Remove the foam insert.

Use a slightly damp cloth to clean the sound inlet basket from the inside and outside. Reinsert the foam insert. Replace the sound inlet basket on the SKM 100 G2 and screw it tight (taking care not to loose the colored identification ring). 38 Additional information HDX noise reduction RF link Inherent noise of the RF link Transmitter Receiver Progress you can hear: The evolution wireless G2 series is equipped with HDX, the Sennheiser noise reduction system that reduces RF interference.



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It increases the signal-to-noise ratio in wireless audio transmission to more than 110 dB.

HDX is a wideband compander system which compresses the audio signal in the transmitter in a 2:1 ratio (related to dB) to lift it above the inherent noise floor of the RF link. A 110 dB dynamic range signal is thus transmitted with an effective dynamic range of only 55 dB, which is above the 60 dB noise floor of the RF link. In the receiver the signal is expanded in an identical and opposite way in a 1:2 ratio to restore the original signal, at the same time reducing the RF noise to below the noise floor of the receiver. HDX has been specially developed for high quality radiomicrophone systems. Note: Only transmitters and receivers that are equipped with HDX can work correctly with each other. If non HDX equipment was mixed with HDX, the dynamic range would be drastically reduced and the transmission would sound blunt and flat. HDX is permanently active and cannot be switched off. 39 Wireless transmission systems With the ew 100 G2 series, Sennheiser puts an end to cable tangles and enables complete freedom of movement. The systems operate exclusively in the UHF band. UHF transmission is extremely reliable and is far less prone to interference than the overcrowded VHF band harmonics from mains units, fluorescent tubes, refrigerators, computers, etc.

are virtually eliminated. Also indoor propagation of UHF radio waves is better than VHF so that the RF power can be kept low this is also an advantage when using multi-channel systems. Finally, UHF frequency ranges are being approved all over the world for radiomicrophone usage in some countries licence-free. There are three transmitter versions: The hand-held transmitter is a complete radiomicrophone in a single unit, the plug-on transmitter converts your favourite wired microphone into a radiomicrophone, the bodypack transmitter can accept a wide range of inputs including: omni-directional or cardioid clip-on microphones, head-worn microphone, guitar/instrument direct input and auxiliary units via the optional CL 2 line input cable. Correct adjustment of transmitter sensitivity is vital. Too high and you get overmodulation and distortion, too low and you get undermodulation and a noisy signal. Please set the sensitivity correctly for the microphone/usage and check it before every performance to ensure best operation. Sennheiser miniature clip-on microphones can be attached in various ways: they can, for example, be attached to the hairline or to clothing (e.g. tie or lapel).

However it is fixed, please make sure that the microphone is protected against sweat/moisture and make-up. Squelch Pilot tone squelch The transmitter adds a pilot tone to the audio signal. The receiver checks incoming audio signals to see if the pilot tone is present. In the absence of the signal, the receiver's audio output will remain muted, even if a strong RF signal is present. This prevents strong interfering signals from causing hissing noise in the receiver when the transmitter is switched off.

In order to benefit from this feature, the pilot tone function must be activated on both the transmitter and the receiver. The pilot tone function is factory preset to "ON" (= activated). Field strength-dependent squelch Depending on the strength of the received RF signal, the receiver's audio output is opened or muted. Via the "SQELCH" menu of the receiver, the squelch threshold can be adjusted in three steps (LO, MID, HI). 40 Diversity reception The EM 100 G2 receiver operates on the "true diversity" principle: A receiving antenna receives not only the electromagnetic waves which reach it by a direct path, but also the reflections of these waves which are created in the room by walls, windows, ceilings and fittings.

When these waves are superimposed, destructive interference occurs, which can also be called "field strength gaps". Repositioning the receiving antenna can bring a solution. With mobile transmitters, however (which all radiomicrophones are), the "field strength gap" will then occur with a different transmitter position. These "field strength gaps" can only be eliminated with true diversity receivers. In true diversity, instead of one antenna and one receiver there are now two antennas and two receiver sections. The antennas are spatially separated. By means of a comparison circuit, the receiver section with the strongest RF signal is always switched to the common AF output. The risk of the occurrence of "field strength gaps" in both antennas at the same time is virtually nonexistent. The receiver display panel shows the active diversity section (I or II). Control signal Receiver section I Electronic switch-over of AF signal Control signal Receiver section II 41 Specifications System RF characteristics Modulation Frequency ranges Transmission/receiving frequencies wideband FM 518554, 626662, 740776, 786822, 830866 MHz 8 channel banks with 4 factory-preset channels each 1 channel bank with 4 freely selectable channels (1440 frequencies, tunable in steps of 25 kHz) 36 MHz \pm 24 kHz \pm 48 kHz \pm 15 ppm Switching bandwidth Nominal/peak deviation Frequency stability AF characteristics Noise reduction system AF frequency response S/N ratio (at 1 mV and peak deviation) THD (at nominal deviation and 1 kHz) General data Temperature range Dimensions of carrying case [mm] Weight of carrying case with EM 100 G2 Weight of carrying case with EK 100 G2 Receivers RF characteristics Receiver principle Sensitivity (with HDX, peak deviation) Adjacent channel rejection Intermodulation attenuation Blocking Squelch Sennheiser HDX 4018,000 Hz 110 dB(A) 0.

9 % 10 °C to +55 °C 380 x 370 x 70 approx. 3100 g approx. 2160 g EM 100 G2 true diversity <2.5 V at 52 dBArms S/N ratio 65 dB 65 dB 70 dB 4 steps: EK 100 G2 non diversity <2.5 V at 52 dBArms S/N ratio 65 dB 65 dB 70 dB 4 steps: Pilot tone squelch Antenna inputs AF characteristics AF output voltage (at peak deviation 1 kHz AF) OFF LO: 5 dBV MID: 15 dBV HI: 25 dBV can be switched off 2 BNC sockets OFF LO: 5 dBV MID: 15 dBV HI: 25 dBV ¼" (6.3 mm) jack socket (unbalanced): +18 dBu XLR socket (balanced): +12 dBu 10.516 V DC, nominal voltage 12 V DC approx. 200 mA 3.5 mm jack socket: unbalanced: +10 dBu Overall device Power supply Power consumption Power consumption with switched-off receiver Dimensions [mm] Weight 2 AA size batteries, 1.5 V approx.

130 mA 250 A 82 x 64 x 24 approx. 158 g (incl. batteries) 212 x 145 x 38 approx. 1100 g 42 Transmitters RF characteristics RF output power at 50 AF characteristics Max. input voltage (at peak deviation) Microphone Line Input impedance Microphone Line Overall device Power supply Nominal voltage Max.

@@@ @ @ @ @ @ @ @ 30 mW SKP 100 G2 SKM 100 G2 1.8 Vrms, unbalanced 1.



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2 Veff, unbalanced 2.4 Vrms 10 k, unbalanced 1 M 10 k, unbalanced 2 AA size batteries, 1.5 V 2.

4 V 2.4 V 170 mA 250 A >8h >8h 82 x 64 x 24 approx. 158 g >8h >8h 105 x 43 x 43 approx. 195 g 2.4 V 250 A >8h >8h 50 x 225 approx. 450g
Connector assignment EM 100 G2: EM 100 G2: 1/4" (6.3 mm) stereo jack plug, unbalanced 1/4" (6.3 mm) mono jack plug, unbalanced EM 100 G2: XLR-3F
connector, balanced + 2 3 1 EM 100 G2: DC connector for power supply NC/GN D SK 100 G2: 3.5 mm jack plug EK 100 G2: 3.5 mm stereo jack plug,
unbalanced EK 100 G2: 3.

5 mm mono jack plug, unbalanced 43 Polar diagrams and frequency response curves of microphones/microphone heads Polar diagrams of
microphones/microphone heads MD 835 ME 865 ME 3 MD 845 ME 4 Frequency response curves of microphones/microphone heads MD 835 ME 2 MD 845
ME 3 ME 865 ME 4 44 Accessories MD 835 Microphone head for SKM 100 G2 (green identification ring), dynamic, cardioid MD 845 Microphone head for
SKM 100 G2 (blue identification ring), dynamic, super-cardioid ME 865 Microphone head for SKM 100 G2 (red identification ring), condenser, super-
cardioid MZW 1 Wind- and popshield for SKM 100 G2 MZQ 1 Microphone clamp for SKM 100 G2 ME 2 Clip-on microphone for SK 100 G2, condenser,
omni-directional ME 4 Clip-on microphone for SK 100 G2, condenser, cardioid ME 3 Headmic for SK 100 G2, condenser, super-cardioid CI 1 Instrument
cable for SK 100 G2, with 1/4" (6.3 mm) jack plug CL 2 Line input cable for SK 100 G2, with XLR-3F connector CL 100 Line input cable for EK 100 G2, with
XLR-3M connector GA 2 19" rack adapter AM 2 Antenna mount for mounting antennas to the front of the GA 2 A 1031-U UHF antenna, passive, omni-
directional, can be mounted onto a stand AB 2-A UHF antenna booster, 10 dB gain powered via ASP 2/NT1 AB 2-B AB 2-C AB 2-D AB 2-E GZL 1019-A1 / 5
/ 10 Antenna cable with BNC connectors 1 m / 5 m / 10 m ASP 2 Antenna splitter, 2 x 1:4, passive, for connecting four EM 100 G2 to two A 1031-U/AB 2 NT
1 Mains unit for ASP 2 DC 2 DC power adapter, for external 12 V DC powering of SK 100 G2 (instead of two AA size batteries) BA 2015 Accupack for EK
100 G2, SK 100 G2, SKP 100 G2, SKM 100 G2 L 2015 Charger for BA 2015 accupack CC 2 Carrying case for ew 100 G2 system KEN 8 color-coded
identification caps for SKM 100 G2 518554 MHz 626662 MHz 740776 MHz 786822 MHz 830866 MHz 45 Manufacturer declarations Warranty regulations
The guarantee period for this Sennheiser product is 24 months from the date of purchase. Excluded are accessory items, rechargeable or disposable batteries
that are delivered with the product; due to their characteristics these products have a shorter service life that is principally dependent on the individual
frequency of use. The guarantee period starts from the date of original purchase. For this reason, we recommend that the sales receipt be retained as proof of
purchase. Without this proof (which is checked by the responsible Sennheiser service partner) you will not be reimbursed for any repairs that are carried out.
Depending on our choice, guarantee service comprises, free of charge, the removal of material and manufacturing defects through repair or replacement of
either individual parts or the entire device. Inappropriate usage (e.g. operating faults, mechanical damages, incorrect operating voltage), wear and tear,
force majeure and defects which were known at the time of purchase are excluded from guarantee claims.

The guarantee is void if the product is manipulated by non-authorized persons or repair stations. In the case of a claim under the terms of this guarantee,
send the device, including accessories and sales receipt, to the responsible service partner. To minimise the risk of transport damage, we recommend that the
original packaging is used. Your legal rights against the seller, resulting from the contract of sale, are not affected by this guarantee. The guarantee can be
claimed in all countries outside the U.

S. provided that no national law limits our terms of guarantee. CE Declaration of Conformity This equipment is in compliance with the essential requirements
and other relevant provisions of Directives 1999/5/EC, 89/336/EC or 73/23/EC. The declaration is available on the internet site at www.sennheiser.com. Before putting the device into operation, please observe the respective country-specific regulations! Batteries or rechargeable batteries The supplied
batteries or rechargeable batteries 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. WEEE Declaration Your Sennheiser product was developed and manufactured with high quality materials
and components which can be recycled and/or reused. This symbol indicates that electrical and electronic equipment must be disposed of separately from
normal waste at the end of its operational lifetime. Please dispose of this product by bringing it to your local collection point or recycling centre for such
equipment. This will help to protect the environment in which we all live. 46 Sennheiser electronic GmbH & Co. KG 30900 Wedemark, Germany Phone +49
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