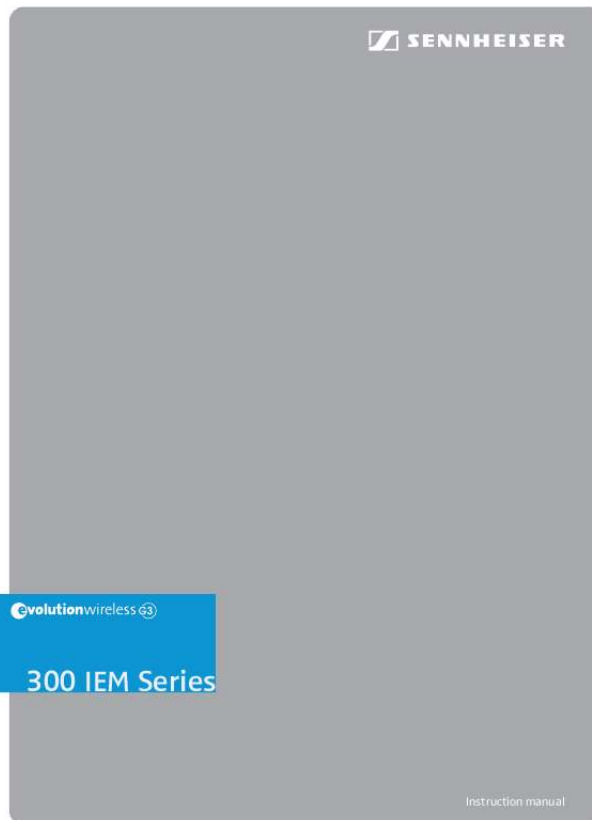




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SENNHEISER EW 300 IEM G3. You'll find the answers to all your questions on the SENNHEISER EW 300 IEM 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 300 IEM G3
User guide SENNHEISER EW 300 IEM G3
Operating instructions SENNHEISER EW 300 IEM G3
Instructions for use SENNHEISER EW 300 IEM G3
Instruction manual SENNHEISER EW 300 IEM G3



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Overview of the displays of the SR 300 IEM G3 transmitter

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. Overview of the displays of the EK 300 IEM G3 diversity receiver

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..... For more detailed information on the individual sections of this instruction manual, visit the corresponding product page on our website at www.sennheiser.com.

1 Important safety instructions
Important safety instructions System
· Read this instruction manual. · Keep this instruction manual. Always include this instruction manual when passing the products on to third parties. · Heed all warnings and follow all instructions in this instruction manual. · Only clean the products when they are not connected to the mains. Use a cloth for cleaning. · Only use attachments/accessories specified by Sennheiser. · When replacement parts are required, only use replacement parts specified by Sennheiser or those having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. · Refer all servicing to qualified service personnel. Servicing is required if the products have been damaged in any way, liquid has been spilled, objects have fallen inside, the products 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 products near water and do not expose them to rain or moisture. SR 300 IEM G3 transmitter · Only use the supplied mains unit.
· Unplug the mains unit from the wall socket to completely disconnect the product from the mains, during lightning storms or when unused for long periods of time. · Only operate the mains unit from the type of power source specified in the chapter "Specifications" (see page 31). · Ensure that the mains unit is in a safe operating condition and easily accessible, properly plugged into the wall socket, only operated within the permissible temperature range, not covered or exposed to direct sunlight for longer periods of time in order to prevent heat accumulation (see "Specifications" on page 31). · Do not block any ventilation openings. Install the products in accordance with the instructions given in this instruction manual.
· Do not install the products near any heat sources such as radiators, 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 The evolution wireless series ew 300 IEM G3 · Danger due to high volumes This product is also intended for professional use. Commercial use is subject to the safety-at-work regulations. Sennheiser, as the manufacturer, is therefore obliged to expressly point out possible health risks arising from use. This product 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. EK 300 IEM G3 diversity receiver Do not place the product 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 300 IEM G3 series system includes: · having read this instruction manual especially the chapter "Important safety instructions", · using the products within the operating conditions and limitations described in this instruction manual. "Improper use" means using the products other than as described in these instructions, or under operating conditions which differ from those described herein. The evolution wireless series ew 300 IEM G3 The evolution wireless monitoring system ew 300 IEM G3 is a high-quality state-of-the-art RF transmission system with a high level of operational reliability and ease of use. Transmitter and diversity receiver are designed for monitoring applications and permit wireless transmission with studio-quality sound. Features of the evolution wireless 300 IEM G3 series: SR 300 IEM G3 transmitter EK 300 IEM G3 receiver · Optimized PLL synthesizer and microprocessor technology · HDX noise reduction system · Switching bandwidth of 42 MHz · Stereo/mono selection · Easy setup of a multi-channel system using the Easy Setup Sync function · Safe configuration of a multi-channel system using the WSM · Stereo/Focus selection · Adaptive diversity technology* · Scan function (Easy Setup) for scanning the frequency banks for unused channels · Adjustable and switchable limiter * The receiver uses the ground connection of the earphones cable as its second antenna to provide improved reception. 3 The frequency bank system The frequency bank system Transmitter and receiver are available in 6 UHF frequency ranges with 1,680 frequencies per frequency range: 516 558 Range A: Range G: 566 608 Range B: 626 668 734 776 Range C: 780 822 Range D: Range E: 823 865 Each frequency range (AE, G) offers 26 frequency banks with up to 16 channels each: Channel 1 frequency preset Channel 2 frequency preset Frequency bank 1..

. 20 Channel 16 frequency preset Channel 1 freely selectable frequency Channel 2 freely selectable frequency Frequency bank U1 ... U6 Channel 16 freely selectable frequency Each of the channels in the frequency banks "1" to "20" has been factory-preset 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 corresponding 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 (see page 28).
4 Product overviews Product overviews Overview of the SR 300 IEM G3 transmitter PEAK PEAK Stereo Transmitter A 0 0 -10 -10 -20 -20 -30 -30 -40 -40 AF I AF II B.Ch: 1. 1 ew300IEM 519.150 MHz EQ Standard -18dB Stereo Transmitter SR 300 IEM FREQ Range-D 780-822 MHz PUSH PUSH B DESIGNED AND MADE IN GERMANY 0682 IDENT NO 627925 SER NO 2518100155 IC 2099A-G3SREK ANT Loop Out BAL +22dBu MAX BAL AF IN +22dBu MAX L(I) R(II) L(I) R(II) RF OUT, ¹ B A Operating elements front panel ³ Headphone output, 1/4" (6.3 mm) jack socket (· Headphone volume control » button, backlit ; Infra-red interface ; Display panel, backlit in orange ² Jog dial ¶ STANDBY button with operation indication (red backlighting), serves as the ESC (cancel) key in the operating menu) Operating elements rear panel ° Cable grip for power supply DC cable 3/4 DC socket (DC IN) for connection of NT 2-3 mains unit µ LED (yellow) for network activity indication, LAN socket (ETHERNET RJ 45) ¹ Audio output left (LOOP OUT BAL L(I)), 1/4" (6.3 mm) jack socket Audio output right (LOOP OUT BAL R(II)), 1/4" (6.3 mm) jack socket Type plate Audio input left (BAL Aio channels are only displayed on the "Frequency/Limiter" and "Frequency/High Boost" standard displays (see page 18) Stereo Focus Pilot tone "P" Activated pilot tone evaluation or audio channels 8 Putting the devices into operation Putting the devices into operation Putting the SR 300 IEM G3 transmitter into operation When using more than one transmitter, we recommend connecting remote antennas and, if necessary, using Sennheiser antenna accessories.

For more information, visit the ew G3 product page at www.sennheiser.com. Setting up the transmitter on a flat surface Place the transmitter on a flat, horizon 3/4 of the transmitter. Pass the cable of the mains unit through the cable grip °. Slide the supplied country adapter onto the mains unit. 3/4 Plug the mains unit into a wall socket. The STANDBY button is backlit in red. The AC 3 antenna combiner incorporates DC distribution to enable simultaneous powering of up to four transmitters via its BNC sockets. These transmitters do not require their individual power supply (see also page 12).

11 Putting the devices into operation Connecting devices to the input sockets PUSH PUSH Use a suitable cable to connect the output of an external device (e.g. a mixing console or an additional SR 300 IEM G3) to the input socket BAL AF IN L(I) and/or BAL AF IN R(II) (see also page 13). Adjust the output level of your external device. Via the operating menu, adjust the transmitter's input sensitivity.

The input sensitivity is adjusted via the "Sensitivity" menu item and is common for both inputs (see page 24). L(I) BAL AF IN +22dBu MAX R(II) The input amplifier of the SR 300 IEM G3 is designed for line level input. Connecting devices to the output sockets Stereo Transmitter SR 300 IEM FREQ Range-D 780-822 MHz DESIGNED AND MADE IN GERMANY 0682 IDENT NO 627925 SER NO 2518100155 IC 2099A-G3SREK FMO Loop Out BAL +22dBu MAX Use a suitable cable to connect the input of an external device (e.g. a mixing console or an additional SR 300 IEM G3) to the output socket LOOP OUT BAL L(I) ¹ and/or LOOP OUT BAL R(II) (see also page 13).

L(I) R(II) ¹ The signal received from the AF input sockets BAL AF IN L(I) and BAL AF IN R(II) is actively buffered and then routed to the output sockets LOOP OUT BAL L(I) ¹ and LOOP OUT BAL R(II). The AF output sockets will therefore work only when the transmitter is switched on and powered. Connecting a remote antenna to the BNC socket and positioning the antenna Use a remote antenna when the transmitter position is not the best antenna position for optimum transmission. You can choose between two antennas: · A 2003 UHF passive directional antenna · A 1031 passive omni-directional antenna Use a low-attenuation 50- cable to connect the antenna to the transmitter. If possible, use a short antenna cable and as little connections as possible, since long cables and many connectors lead to an attenuation of the antenna signal. Position the antenna in the same room in which the transmission takes place. Observe a minimum distance of 1 m between the antenna and metal objects (including reinforced concrete walls). Connecting the AC 3 antenna combiner to the BNC socket PUSH ANT BAL AF IN +22dBu MAX R(II) To make multi-channel systems, you should use the AC 3 antenna combiner (optional accessory). The AC 3 allows you to operate up to four transmitters with a single antenna without virtually any intermodulation. In addition, the AC 3 incorporates DC distribution to enable simultaneous powering of up to four transmitters via its BNC sockets.

Connect the AC 3 antenna combiner to the BNC socket. RF OUT 12 Putting the devices into operation Daisy chaining audio signals You can transmit the same audio signal (e.g. the sum of all audio signals) to several diversity receivers of a multi-channel system. To do so, you have to daisy chain this audio signal from one transmitter to the next via the output sockets LOOP OUT BAL L(I) ¹ or LOOP OUT BAL R(II). The audio signal is then transmitted by all transmitters on one of the two audio channels L(I) or R(II). @@the instrument of a musician). @@@@Connect your transmitter to an Ethernet switch. Connect the other transmitters to the Ethernet switch. Connect a PC to the Ethernet switch.

@@@@@The battery compartment cover µ locks into place with an audible click. Charging the accupack To charge the BA 2015 accupack: Insert the diversity receiver into the L 2015 charger (optional accessory). The L 2015 charger can only charge the combination BA 2015 accupack/diversity receiver. @@@@@@Switch the transmitter on. 2.

Switch the diversity receiver on. @@@@The transmitter switches on and the standard display appears. @@Press the jog dial. @@The transmission icon is not displayed. @@@@"RF Mute Off" appears on the display panel.

Press the jog dial. @@@@@@The red ON LED ; lights up. @@@@@@Danger of hearing damage! @@@@@@When switching the receiver on, slowly and carefully turn the volume control ³ clockwise.



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Via the receiver's operating menu (see page 24), adjust: stereo or Focus operation ("Mode" menu item) the balance ("Balance" menu item) the treble boost ("High Boost" menu item) the limiter ("Limiter" menu item) · The ground connection of the earphones cable serves as the second antenna for adaptive diversity operation. To monitor the audio signal via the headphone output of the transmitter: Set the headphone volume control · to the minimum position. Stereo Transmitter Connect headphones with a ¼" (6.3 mm) stereo jack plug to the headphone output 3. Gradually increase the volume and monitor the audio signal with the lowest possible volume. 3 · 17 Using the devices Selecting a standard display on the diversity receiver ESC Press the ESC button to select a standard display. In stereo mode, you can alternatively press the rocker button.

Selectable standard display "Frequency/Name" with "Mute" display Contents of the display 519.150 MHz ew300 IEM RF AF P MUTE B.CH 1.1 Lim: - 6dB RF AF P "Frequency/Limiter" with display of the audio channels (Stereo/Focus) 519.150 MHz EQ RF AF P "Frequency/High Boost" with display of the audio channels (Stereo/Focus) For more detailed information, refer to the chapter "Overview of the displays of the EK 300 IEM G3 diversity receiver" on page 8. Deactivating the lock mode temporarily You can activate or deactivate the automatic lock mode via the "Auto Lock" menu item. If the lock mode is activated, you have to temporarily deactivate it In order to be able to operate the devices: SR 300 IEM G3 transmitter Press the jog dial. "Locked" appears on the display panel. Turn the jog dial. "Unlock?" appears on the display panel.

Press the jog dial. The lock mode is temporarily deactivated: · When you are in the operating menu, the lock mode remains deactivated until you exit the operating menu. · When a standard display is shown, the lock mode is automatically activated after 10 seconds. SET EK 300 IEM G3 receiver SET Press the SET button. Press the rocker button.

Press the SET button. 18 Using the devices The lock mode icon of the transmitter or the lock mode icon flashes prior to the lock mode being activated again. B.Ch: 1. 1 ew300IEM of the diversity receiver 519.

150 MHz EQ Standard -18dB 519.150 MHz ew300 IEM RF AF P MUTE Adjusting the audio channels on the transmitter Via the "Mode" menu item, you can adjust the audio channels. Select "Stereo" if you want to transmit two separate audio signals on channel I and channel II (e.g. channel I = audio signal of the presenter/musician, channel II = sum of all audio signals). Make sure that the receiver's pilot tone evaluation ("Pilot Tone" menu item) is activated. This allows the presenter/musician to adjust the balance between the left and right stereo signal on his receiver. Select "Mono" if you only want to transmit a mono audio signal. In this case, the signal from the left audio input BAL AF IN L is transmitted. During mono operation, you have to deactivate the pilot tone evaluation on the diversity receiver ("Pilot Tone" menu item) in order to ensure that your receiver outputs the same signal on channel I and II.

Activating/deactivating the RF signal on the transmitter To deactivate the RF signal: When the standard display is shown on the display panel, press the STANDBY button. "RF Mute On?" appears on the display panel. Press the jog dial. The RF signal is deactivated. The transmission icon is not displayed. To activate the RF signal: Press the STANDBY button. "RF Mute Off?" appears on the display panel. Press the jog dial. The RF signal is activated and the display backlighting changes from red to orange. You can also deactivate the RF signal on switch-on.

For more information, refer to the chapter "Switching the devices on/off" on page 16". 19 Using the devices Synchronizing transmitters and EK 300 IEM G3 receivers via the infra-red interface Synchronization allows you to quickly and easily transfer transmitter and receiver settings from one device to the other, especially if you want to configure a multi-channel system. There are two transfer directions: 1. Easy Setup Sync: Transfer from the receiver to one or several transmitters Once you have performed a frequency preset scan with a receiver, you can use the Easy Setup Sync function to transfer unused frequency presets from the receiver to the transmitters via the infra-red interface. In order to configure a multi-channel system, you use the diversity receiver to transfer the first unused channel from the selected frequency bank to the first transmitter and the next unused channel to the second transmitter and so on, thus ensuring that all transmitters of a multi-channel system operate on suitable frequencies.

2. Sync: Transfer from a transmitter to a receiver Once you have selected and set the desired receiver settings on the transmitter (either manually or using the Easy Setup Sync function), you transfer these settings to a receiver. This configures the receiver and establishes a transmission link between transmitter and receiver. Via the "Sync Settings" submenu, you can adjust the receiver parameters listed below and activate or deactivate their transfer to an EK 300 IEM G3 receiver. Setting "Balance" "Squelch" "Mode" Transferred receiver parameter Current balance setting ("-15"/"+15") Current squelch setting ("Off", "5 dB" .

.. @@@@On all transmitters, call up the "Easy Setup" menu item. @@The RF signal of the transmitters is automatically deactivated. @@@@Sync Switch your transmitter and your diversity receiver on. Press the mitter. @@@@The RF signal remains deactivated. Place the infra-red interface of the receiver in front of the infra-red interface of your transmitter. The current frequency bank and channel setting as well as the parameters adjusted via the "Sync Settings" menu item are transferred from the transmitter to the receiver. When the transfer is completed, " " appears on the display panel of the transmitter.

The transmitter then switches back to the standard display. The transferred parameters are automatically adjusted and stored by the receiver. The transmission link between transmitter and receiver is now established. Place the infra-red interface of the diversity receiver in front of the infra-red interfaces of the remaining transmitters, one after the other. In each case, the next unused frequency preset is transferred from the receiver to the transmitter. 21 Using the devices Easy Setup Sync Either: Store the frequency bank and channel setting by pressing the jog dial on your transmitters.



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The RF signal is activated. You can carry out the Sync function (see right-hand column) at a later time to establish a transmission link between transmitters and receivers. Or: Immediately synchronize your receivers with your transmitters by carrying out the Sync function (see right-hand column). The icon in the left lower corner of the transmitter display indicates that the Sync function can be carried out.

The transmission link between transmitters and receivers is established. Sync To cancel the transfer: Press the STANDBY button on the transmitter. " " appears on the display panel of the transmitter. " " also appears if no suitable receiver was found. 22 Using the operating menus Using the operating menus The buttons of the SK 300 IEM G3 transmitter Button Press the STANDBY button Function of the button · Switches the transmitter on and off · Cancels the entry and returns to the standard display (ESC function) · Activates/deactivates the RF signal (special function, see page 19) Press the jog dial · Changes from the standard display to the operating menu · Calls up a menu item · Enters a submenu · Stores the settings and returns to the operating menu Turn the jog dial · Changes to the next/previous menu item · Changes the setting of a menu item The buttons of the EK 300 IEM G3 diversity receiver Button Press the ESC button ESC Function of the button · Selects a standard display (see page 18) · Cancels the entry and returns to the current standard display (ESC function) · Changes from the standard display to the operating menu · Calls up a menu item · Enters a submenu · Stores the settings and returns to the operating menu Press the SET button SET Press the rocker button · In Focus mode: Adjusts the balance · In stereo mode: Selects a standard display (see page 18) · Changes to the next/previous menu item · Changes the setting of a menu item 23 Using the operating menus Overview of the operating menus For more detailed information on the operating menus, refer to the instruction manuals of the transmitter and the diversity receiver which can be downloaded from www.sennheiser.com. SR 300 IEM G3 transmitter Main menu "Menu" Sensitivity Easy Setup Mode Frequency Preset Name Equalizer AutoLock Advanced Exit Extended menu "Advanced Menu" Tune Sync Settings RF Power Warnings LCD Contrast Reset IP-Address Software Revision Exit "Sync Settings" Balance Squelch Mode High Boost Auto Lock Limiter Exit "Warnings" AF Peak RF Mute Exit EK 300 IEM G3 receiver Main menu "Menu" Squelch Easy Setup Frequency Preset Name Balance Mode High Boost Auto Lock Advanced Exit "Easy Setup" Reset List Current List Scan New List Extended menu "Advanced Menu" Tune Pilot Tone Limiter LCD Contrast Reset Software Revision Exit Operating menu of the SR 300 IEM G3 transmitter When the standard display 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 other menus can be accessed via the corresponding menu items. Display Function of the menu item Main menu "Menu" Sensitivity Easy Setup Mode Frequency Preset Name Equalizer AutoLock Advanced Exit Adjusts the input sensitivity (0 to 42 dB, adjustable in steps of 3 dB) Deactivates the RF signal and activates Easy Setup Sync (see page 27) Selects mono or stereo operation (see page 19) Changes the frequency bank and the channel Enters the transmitter name Changes the frequency response of the output signal using a graphic equalizer (+/- 12 dB, adjustable in steps of 2.

4 dB) Activates/deactivates the automatic lock mode Calls up the extended menu "Advanced Menu" Exits the operating menu and returns to the standard display Extended menu "Advanced Menu" Tune 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 jog dial ² until the channel selection appears. Sync Settings RF Power Adjusts the receiver parameters and activates/deactivates their transfer to the EK 300 IEM G3 receiver. For an overview of the parameters, refer to page 20. Adjusts the transmission power ("Low" or "Standard") 24 Using the operating menus Display Warnings LCD Contrast Reset Function of the menu item Activates/deactivates the warning messages (color change and warning messages) Adjusts the contrast of the display panel in 16 steps Resets the transmitter When resetting the transmitter, only the selected settings for the pilot tone and for the frequency banks "U1" to "U6" remain unchanged. For an overview of the factory-preset default settings, refer to the supplied frequency information sheet. IP-Address Software Revision Exit Adjusts the IP address of the transmitter Displays the current software revision Exits the extended menu "Advanced Menu" and returns to the main menu "Warnings" AF Peak RF Mute Exit Audio overmodulation RF signal is deactivated Exits the submenu "Warnings" and returns to the extended menu "Advanced Menu" Operating menu of the EK 300 IEM G3 diversity receiver Display Function of the menu item Main menu "Menu" Squelch Adjusts the squelch threshold, adjustment range: 5 to 25 dBV, adjustable in 2-dB steps, can be switched off 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 headphone output to the minimum. Never change the squelch threshold during a live transmission. Special function (for servicing purposes only): With the squelch threshold set to "5 dB", you switch the squelch off by keeping the DOWN rocker button pressed for 3 seconds.

If you then press the UP rocker button, you switch the squelch on again. Easy Setup Name Balance Mode High Boost Auto Lock Advanced Exit Scans for unused frequency presets, releases and selects frequency presets Enters a freely selectable name Adjusts the balance Selects stereo or Focus mode Activates/deactivates the treble boost Activates/deactivates the automatic lock mode Calls up the extended menu "Advanced Menu" Exits the operating menu and returns to the current standard display Frequency Preset Changes the frequency bank and the channel 25 Using the operating menus Display Function of the menu item "Easy Setup" Reset List Current List Scan New List Exit Releases all locked frequency presets Selects an unused frequency preset Scans for unused receiving frequencies (frequency preset scan) Exits the submenu "Easy Setup" and returns to the main menu Extended menu "Advanced Menu" Tune 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 SET button ¶ until the channel selection appears.



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Pilot Tone Limiter LCD Contrast Reset Activates/deactivates the pilot tone evaluation Adjusts the limiter Adjusts the contrast of the display panel Resets the diversity receiver When resetting the receiver, only the selected settings for the pilot tone and for the frequency banks "U1" to "U6" remain unchanged. For an overview of the factory-preset default settings, refer to the supplied frequency information sheet. Software Revision Displays the current software revision Exit Exits the extended menu "Advanced Menu" and returns to the main menu 26 Synchronizing the transmitter with the diversity receiver Synchronizing the transmitter with the diversity receiver When synchronizing the transmitter with the 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. You can also contact your Sennheiser partner who will be pleased to calculate intermodulation-free frequencies for you. Make sure that the desired frequencies are approved and legal in your country and, if necessary, apply for an operating license. The frequency information sheet can also be downloaded from the corresponding product page on our website at www.sennheiser.com.

Synchronizing the 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: First carry out the Easy Setup Sync function (see table on page 21, left-hand column). The transmitter is set to a suitable frequency. Then carry out the Sync function (see table on page 21, right-hand column).

This establishes a transmission link between transmitter and 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. Synchronizing transmitters with receivers multi-channel operation Network operation using the WSM Stereo Transmitter Stereo Transmitter Stereo Transmitter Stereo Transmitter In multi-channel operation, the transmitters are remote controlled via a PC running the "Wireless Systems Manager" (WSM) software. Advantages of controlling the transmitters via the "Wireless Systems Manager" (WSM) software: · Detailed overview of all transmission and receiving channels · Remote control of all transmitters in the network · Combination of transmitters of different frequency ranges (see page 4) Connect your transmitters and your PC in a network (see page 13). Switch your transmitters and your PC on (see page 16).

Launch the "Wireless Systems Manager" (WSM) software. To set up your multi-channel system, proceed as described in the instruction manual of the "Wireless Systems Manager" (WSM) software. Operation without network First carry out the Easy Setup Sync function (see table on page 21, left-hand column). All transmitters are set to suitable transmission frequencies. Then carry out the Sync function for each transmitter/receiver pair (see table on page 21, right-hand column). This establishes a transmission link between each transmitter/receiver pair. 27 Cleaning the devices Using freely selectable frequencies You can also freely select the frequencies and store these frequencies in the frequency banks "U1" to "U6". If you want to use the frequency banks "U1" to "U6": Make sure to use transmitters and receivers from the same frequency range (see page 4 and the type plates of the devices). To ensure that the desired frequencies are intermodulation-free: Contact your Sennheiser partner (see www.sennheiser.com).

Set each transmitter to the same frequency bank ("U1" to "U6"). On one of the transmitters, select a channel within this frequency bank (see page 24). Assign this channel one of the calculated transmission frequencies (see page 24). Either: Then carry out the Sync function for each transmitter/receiver pair (see table on page 21, right-hand column). This establishes a transmission link between each transmitter/receiver pair. Or: Manually set the receiver to the same frequency bank, channel and frequency that you set on the transmitter (see page 24). 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. SR 300 IEM G3 transmitter Before cleaning, disconnect the device from the mains.

Use a slightly damp cloth to clean the device from time to time. Do not use any solvents or cleansing agents. EK 300 IEM G3 diversity receiver Use a slightly damp cloth to clean the device from time to time. Do not use any solvents or cleansing agents. 28 If a problem occurs .

.. If a problem occurs ...

SR 300 IEM G3 transmitter Problem Transmitter cannot be operated, "Locked" appears on the display panel No RF signal at the receiver Possible cause Lock mode is activated Possible solution Deactivate the lock mode (see page 18 and page 24). No operation indication No mains connection Transmitter and receiver are not on the same channel Check the connections of the mains unit. Synchronize the transmitter with the receiver (see page 20). If "RF Mute" additionally appears Activate the RF signal of the transmitter (see page 19). on the transmitter display: RF signal is deactivated Very weak RF signal at the receiver Transmission range is exceeded Reduce the distance between receiver and transmitter. Reposition the antennas. Increase the transmission power (see page 24). Reduce the squelch threshold (see table on page 20). @@@@ Set the transmitter and receiver to the same channel. Synchronize the transmitter with the receiver (see page 20).

Check the squelch threshold setting. Reduce the distance between transmitter and receiving antennas. RF signal is deactivated ("RF Mute") RF signal available, no audio signal, "MUTE" appears on the display panel Transmitter is muted Receiver's squelch threshold is adjusted too high Transmitter is set to mono operation and therefore doesn't transmit a pilot tone Transmitter is set to stereo operation and therefore transmits a pilot tone Audio signal has a high Transmitter sensitivity is level of background adjusted too low noise Audio signal is distorted Transmitter sensitivity is adjusted too high No access to a certain channel Activate the RF signal (see page 19). Cancel the muting (see page 16). Reduce the squelch threshold setting on the receiver. Deactivate the pilot tone evaluation. Activate the pilot tone evaluation.



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Adjust the transmitter sensitivity correctly. Adjust the transmitter sensitivity correctly. During scanning, an RF signal has Set the transmitter operating on this channel to a been detected on this channel different channel and redo the frequency preset scan. and the channel has been locked During scanning, a transmitter of your system operating on this channel has not been switched off Switch the transmitter off and redo the frequency preset scan. If a problem occurs that is not listed in the above table or if the problem cannot be solved with the proposed solutions, please contact your local Sennheiser partner for assistance. To find a Sennheiser partner in your country, search at www.sennheiser.com under "Service & Support".

30 If a problem occurs ... Specifications System Modulation Frequency ranges Transmission/receiving frequencies wideband FM stereo (MPX pilot tone) 516-558, 566608, 626668, 734776, 780822, 823865 MHz (A to E, G, see page 4) 1680 frequencies, tuneable in steps of 25 kHz 20 frequency banks, each with up to 16 factory-preset channels 6 frequency banks with up to 16 user programmable channels 42 MHz ± 10 ppm (10°C to +55°C) Sennheiser HDX ± 24 kHz/ ± 48 kHz 19 kHz/ ± 5 kHz 25 Hz to 15 kHz < 0.9% > 90 dB 10°C to +55°C Switching bandwidth Frequency stability Comander system Nominal/peak deviation MPX pilot tone (frequency/deviation) AF frequency response THD (at 1 kHz and nominal deviation) Signal-to-noise ratio at nominal load and peak deviation Temperature range SR 300 IEM G3 transmitter Antenna output RF output power at 50 AF input BAL AF IN L (I)/BAL AF IN R (II) Max. @ @ @ @ 350 mA approx. 202 mm x 212 mm x 43 mm approx. @ @ @ @ output power High Boost Limiter Power supply Nominal voltage Power consumption: at nominal voltage · with switched-off receiver Operating time Dimensions Weight (incl. batteries) adaptive diversity < 1.6 V for 52 dB Arms S/N typ. 65 dB typ. 70 dB 80 dB Off; 5 to 25 dBV, adjustable in steps of 2 dB can be switched off approx. 90 dB 2 x 100 mW at 32 +8 dB at 10 kHz 18 dB to 6 dB, adjustable in steps of 6 dB, can be switched off 2 AA size batteries, 1.5 V or BA 2015 accupack 2.4 V approx.

140 mA 25 A approx. 4 to 6 hrs (depending on volume level) approx. 82 x 64 x 24 mm approx. 200 g In compliance with Europe EMC Radio USA EN 301489-1/-9 EN 300422-1/-2 Safety EN 60065 47 CFR 15 subpart B 32 If a problem occurs ... Approved by Canada Industry Canada RSS 123 IC 2099A-G3SREK300 limited to 806 MHz Connector assignment SR 300 IEM G3 transmitter 1/4" (6.3 mm) stereo jack plug, balanced (BAL AF IN/LOOP OUT) XLR-3F connector, balanced (BAL AF IN) + 2 3 1 DC connector for power supply 1/4" (6.3 mm) mono jack plug, unbalanced 1/4" (6.3 mm) stereo jack plug for headphone output EK 300 IEM G3 receiver 3.

5 mm jack plug LR Accessories The following EK 300 IEM G3 accessories are available from your specialist dealer: 009950 009828 500432 503166 503167 503158 503873 503874 004645 003658 002324 002325 BA 2015 accupack L 2015 charger IE 4 earphones AC 3 antenna combiner GA 3 rack adapter NT 3-1 EU: Power supply for powering the AC 3 antenna combine and four transmitters, EU version NT 3-1 US: Power supply for powering the AC 3 antenna combine and four transmitters, 120 V version NT 3-1 UK: Power supply for powering the AC 3 antenna combine and four transmitters, UK version A 1031 omni-directional broadband antenna A 2003 directional broadband antenna GZL 1019-A1 coaxial cable, type RG 58, BNC to BNC, 1 m GZL 1019-A1 coaxial cable, type RG 58, BNC to BNC, 5 m The following SR 300 IEM G3 accessories are available from your specialist dealer: 33 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 web site 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 devices 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/EC) 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. 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 devices into operation, please observe the respective country-specific regulations. 34 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! 35 Sennheiser electronic GmbH & Co. KG Am Labor 1, 30900 Wedemark, Germany www.sennheiser.com Printed in Germany Publ.

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