

**e**volution wireless 

**SKP 300**



Instruction manual

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# Important safety instructions

- Read this instruction manual.
- Keep this instruction manual. Always include this instruction manual when passing the product on to third parties.
- Heed all warnings and follow all instructions.
- Use only a cloth for cleaning the product.
- Do not place the product near any heat sources such as radiators, stoves, or other devices (including amplifiers) that produce heat.
- Only use attachments/accessories specified by Sennheiser.
- Refer all servicing to qualified service personnel. Servicing is required if the device has been damaged in any way, liquid has been spilled, objects have fallen inside, the product has been exposed to rain or moisture, does not operate properly or has been dropped.
- **WARNING:** To reduce the risk of short circuits, do not use the product near water and do not expose it to rain or moisture.

## Intended use

Intended use of the SKP 300 G3 plug-on transmitter includes:

- having read this instruction manual, especially the chapter “Important safety instructions” above on this page,
- using the product within the operating conditions and limitations described in this instruction manual.

“Improper use” means using the product other than as described in these instructions, or under operating conditions which differ from those described herein.

# The SKP 300 G3 plug-on transmitter

The SKP 300 G3 plug-on transmitter is part of the evolution wireless series ew 300 G3. This series offers high-quality state-of-the-art RF transmission systems with a high level of operational reliability and ease of use. Transmitters and receivers permit wireless transmission with studio-quality sound.

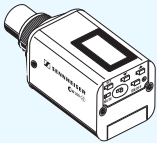
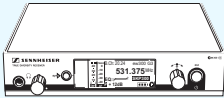
Features of the SKP 300 G3 plug-on transmitter:

- Optimized PLL synthesizer and microprocessor technology
- HDX noise reduction system
- Pilot tone squelch control
- Switching bandwidth of up to 42 MHz
- Increased immunity to intermodulation and interferences in multi-channel operation
- 48 V phantom powering

## Areas of application

The plug-on transmitter can be combined with the EM 300 G3 rack-mount receiver. The EM 300 G3 rack-mount receiver is available in the same UHF frequency ranges and is equipped with the same frequency bank system with factory-preset frequencies. This has the advantage that:

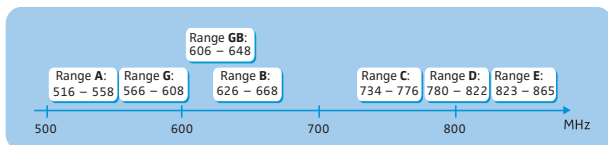
- a transmission system is ready for immediate use after switch-on,
- several transmission systems can be operated simultaneously on the preset frequencies without causing intermodulation interference.

Transmitter	Combinable with ...	Receiver
<p>SKP 300 G3</p> 	<p>dynamic and condenser microphones.</p> <p>We recommend using Sennheiser microphones.</p>	<p>EM 300 G3</p> 

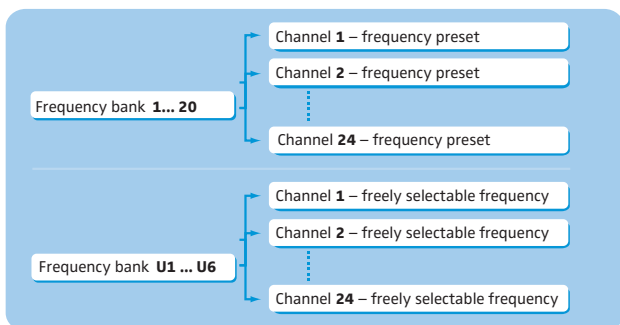
**i** Transmitter and receiver must have at least software version 1.7 (see page 23).

## The frequency bank system

The plug-on transmitter is available in 7 UHF frequency ranges with up to 1,680 transmission frequencies per frequency range:



Each frequency range (A-E, G, GB) offers 26 frequency banks with up to 24 channels each:



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

For an overview of the frequency presets, please refer to the supplied frequency information sheet. Updated versions of the frequency information sheet can be downloaded from the SKP 300 G3 product page on our website at [www.sennheiser.com](http://www.sennheiser.com).

The frequency banks "U1" to "U6" allow you to freely select and store transmission frequencies. It might be that these transmission frequencies are **not** intermodulation-free.

## Delivery includes

The packaging contains the following items:

- 1 SKP 300 G3 plug-on transmitter
- 2 AA size batteries, 1.5 V
- 1 instruction manual
- 1 frequency information sheet
- 1 RF power information sheet

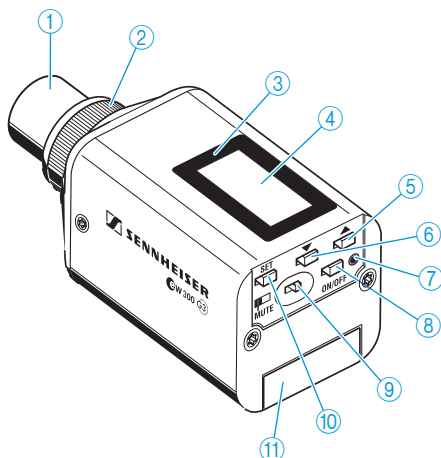


A list of accessories can be found on the SKP 300 G3 product page at [www.sennheiser.com](http://www.sennheiser.com).

For information on suppliers, contact your local Sennheiser partner: [www.sennheiser.com](http://www.sennheiser.com) > "Service & Support".

# Product overview

## Overview of the SKP 300 G3 plug-on transmitter

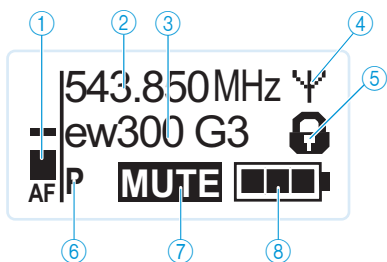







- ① Microphone input, XLR-3 socket (female, balanced)
- ② Mechanical locking ring of XLR-3 socket
- ③ Infra-red interface
- ④ Display panel, backlit in orange
- ⑤ UP button (▲)
- ⑥ DOWN button (▼)
- ⑦ Operation and battery status indicator, red LED:  
lit = **ON**  
flashing = **LOW BATTERY**
- ⑧ **ON/OFF** button with ESC function (cancel)
- ⑨ **MUTE** switch
- ⑩ **SET** button
- ⑪ Battery compartment cover

## Overview of the displays

After switch-on, the plug-on transmitter displays the standard display “Frequency/Name”. For further illustrations and examples of the different standard displays, refer to page 13.

The display backlighting is automatically reduced after approx. 20 seconds.



Display	Meaning
① Audio level “AF”	Modulation of the plug-on transmitter with peak hold function
② Frequency	Current transmission frequency
③ Name	User selectable name
④ Transmission icon	RF signal is being transmitted
⑤ Lock mode icon	Lock mode is activated
⑥ “P” (pilot tone)	Pilot tone transmission is activated
⑦ “MUTE”	Microphone input is muted
⑧ Battery status	Charge status: <ul style="list-style-type: none"> <li> approx. 100%</li> <li> approx. 70%</li> <li> approx. 30%</li> <li> critical charge status, the red <b>LOW BATTERY LED</b> ⑦ is flashing:</li> </ul> 

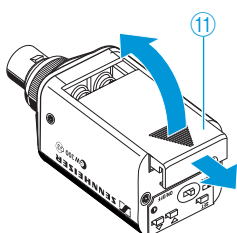


# Putting the plug-on transmitter into operation

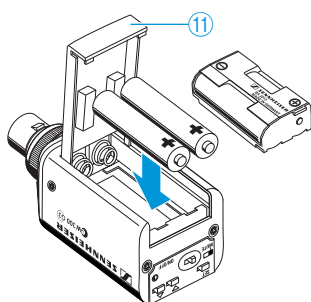
## Inserting the batteries/accupack

For powering the plug-on transmitter, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack (optional accessory).

- ▶ Slide the battery compartment cover ⑪ in the direction of the embossed arrow and open the cover ⑪.



- ▶ Insert the two batteries or the accupack as shown below. Please observe correct polarity when inserting the batteries/accupack.



- ▶ Close the battery compartment. The battery compartment cover ⑪ locks into place with an audible click.

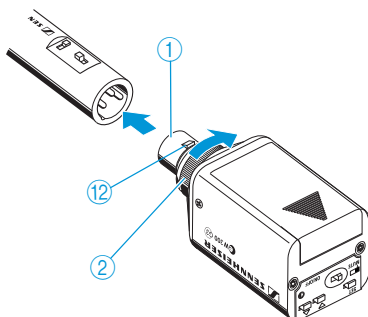
## Charging the accupack

- ▶ Remove the BA 2015 accupack.
- ▶ Insert the BA 2015 accupack into the L 2015 charger (optional accessory).

**i** The L 2015 charger can only charge the BA 2015 accupack. Standard batteries (primary cells) or individual rechargeable battery cells cannot be charged.

## Plugging the plug-on transmitter onto a microphone

- ▶ Plug the microphone's XLR-3M socket onto the XLR-3F socket ① of the transmitter. Make sure that the latch ⑫ locks into place.



- ▶ Tighten the locking ring ② in the direction of the arrow.

**i** The transmitter uses the microphone body as an antenna – therefore microphones with a metal casing should be used for best signal transmission.

## Using the plug-on transmitter

To establish a transmission link, proceed as follows:

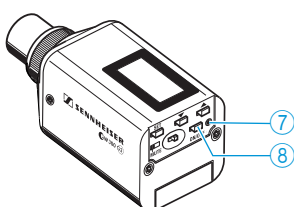
1. Switch the receiver on (see the receiver's instruction manual).
2. Switch the plug-on transmitter on (see next section).

The transmission link is established and the receiver's RF level display "RF" reacts.

**i** It is vital to observe the notes on frequency selection on page 23.

If you cannot establish a transmission link between plug-on transmitter and receiver, read the chapter "Synchronizing the plug-on transmitter with a receiver" on page 23.

### Switching the plug-on transmitter on/off



To switch the plug-on transmitter **on** (online operation):

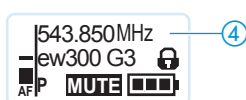
- ON/OFF** ▶ Press the **ON/OFF** button (8).  
 The plug-on transmitter transmits an RF signal. The red **ON** LED (7) lights up and the "Frequency/Name" standard display appears on the display panel. The transmission icon (4) is displayed.


To switch the plug-on transmitter **on** and to **deactivate the RF signal on switch-on** (offline operation):

- ON/OFF** ▶ Keep the **ON/OFF** button (8) pressed until "RF Mute Off?" appears on the display panel.





- ▼▲ ▶ Press the UP/DOWN button.  
 "RF Mute On?" appears on the display panel.

- SET** ▶ Press the **SET** button.  
 The transmission frequency is displayed but the plug-on transmitter does not transmit an RF signal. The transmission icon (4) is not displayed.








 Use this function to save battery power or to prepare a plug-on transmitter for use during live operation without causing interference to existing transmission links.

To **activate** the RF signal:

-  ▶ Press the **ON/OFF** button.  
"RF Mute On?" appears on the display panel.
-  ▶ Press the UP/DOWN button.  
"RF Mute Off?" appears on the display panel.
-  ▶ Press the **SET** button.  
The transmission icon  is displayed again.




To switch the plug-on transmitter **off**:

- ▶ If necessary, deactivate the lock mode (see page 11).
-  ▶ Keep the **ON/OFF** button  pressed until "OFF" appears on the display panel.  
The red **ON** LED  goes off and the display panel turns off.

 When in the operating menu, pressing the **ON/OFF** button  will cancel your entry (ESC function) and return you to the current standard display.

## Deactivating the lock mode temporarily

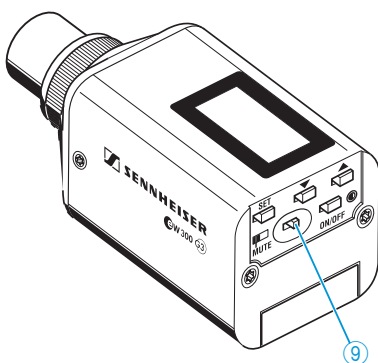
You can activate or deactivate the automatic lock mode via the "Auto Lock" menu item (see page 19). If the lock mode is activated, you have to temporarily deactivate it in order to be able to operate the plug-on transmitter:

-  ▶ Press the **SET** button or the **ON/OFF** button.  
"Locked" appears on the display panel.
-  ▶ Press the UP/DOWN button.  
"Unlock?" appears on the display panel.
-  ▶ Press the **SET** button.  
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 one of the standard displays is shown, the lock mode is automatically activated after 10 seconds.

The lock mode icon ⑤ flashes prior to the lock mode being activated again.



## Muting the audio signal or deactivating the RF signal

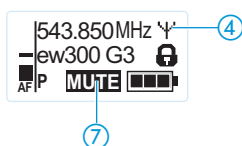


The **MUTE** switch ⑨ allows you to mute the audio signal or to deactivate the RF signal. Via the “**Mute Mode**” menu item, you can set the desired function of the **MUTE** switch ⑨ (see page 21).

Setting	Slide the MUTE switch ⑨...	Function
“AF On/Off”	... to the left (position <b>MUTE</b> )	Mutes the audio signal
	... to the right	Unmutes the audio signal
“RF On/Off”	... to the left (position <b>MUTE</b> )	Deactivates the RF signal (offline operation)
	... to the right	Activates the RF signal (online operation)
“Disabled”	No function	

- ▶ From the “**Mute Mode**” menu item, select the desired setting (see page 21).
- ▶ Exit the operating menu.
- ▶ Slide the **MUTE** switch ⑨ to the left, to the position **MUTE**.  
The plug-on transmitter reacts as indicated in the table.

The current state of the muting function or the RF signal is displayed on the display panel of the plug-on transmitter:



State	Transmitter's display panel
Audio signal and RF signal are activated (muting is canceled)	"MUTE" ⑦ is not displayed, transmission icon ④ is displayed
Audio signal is muted	"MUTE" ⑦ is displayed, transmission icon ④ is displayed
RF signal is deactivated	"MUTE" ⑦ is displayed, transmission icon ④ is not displayed

**i** You can also deactivate the RF signal on switch-on. For more information, refer to the chapter "Switching the plug-on transmitter on/off" on page 10.

Using the **ON/OFF** button, you can also activate/deactivate the RF signal during operation. To do so, briefly press the **ON/OFF** button and proceed as described on page 10.

## Selecting a standard display




▼▲ ▶ Press the UP or DOWN button to select a standard display:

Contents of the display	Selectable standard display
	"Frequency/Name"
	"Channel/Frequency"
	"Name/Channel"

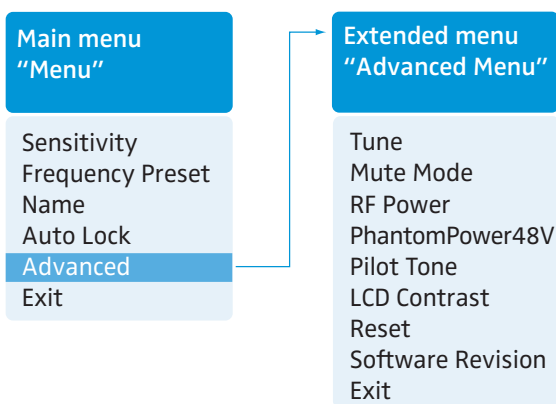
## Using the operating menu

A special feature of the Sennheiser evolution wireless ew 300 G3 series is the consistent, intuitive menu structure of transmitters and receivers. As a result, adjustments to the settings can be made quickly – even in stressful situations, for example on stage or during a live show or presentation.

### The buttons

Button	Function of the button
Press the <b>ON/OFF</b> button 	<ul style="list-style-type: none"> <li>Switches the plug-on transmitter on and off</li> <li>ESC function: Cancels the entry and returns to the current standard display</li> <li>Activates/deactivates the RF signal</li> </ul>
Press the <b>SET</b> button 	<ul style="list-style-type: none"> <li>Changes from the current standard display to the operating menu</li> <li>Calls up a menu item</li> <li>Enters a submenu</li> <li>Stores the settings and returns to the operating menu</li> </ul>
Press the <b>UP/DOWN</b> button 	<ul style="list-style-type: none"> <li>Selects a standard display</li> <li>Changes to the next/previous menu item</li> <li>Changes the setting of a menu item</li> </ul>


### Overview of the operating menu



Display	Function of the menu item	Page
<b>Main menu "Menu"</b>		
Sensitivity	Adjusts the sensitivity "AF"	17
Frequency Preset	Changes the frequency bank and the channel	18
Name	Enters the transmitter name	18
Auto Lock	Activates/deactivates the automatic lock mode	19

Display	Function of the menu item	Page
Advanced	Calls up the extended menu "Advanced Menu"	19
Exit	Exits the operating menu and returns to the current standard display	–
<b>Extended menu "Advanced Menu"</b>		
Tune	Sets the transmission frequencies for the frequency banks "U1" to "U6"	20
	Sets the frequency bank, the channel and the transmission frequency (frequency banks "U1" to "U6")	19
Mute Mode	Sets the mode for the MUTE switch ⑨	21
RF Power	Adjusts the transmission power	21
PhantomPower 48V	Activates/deactivates the phantom powering	21
Pilot Tone	Activates/deactivates the pilot tone transmission	21
LCD Contrast	Adjusts the contrast of the display panel	22
Reset	Resets the settings made in the operating menu	22
Software Revision	Displays the current software version	22
Exit	Exits the extended menu "Advanced Menu" and returns to the main menu	–

## Working with the operating menu

 If the lock mode is activated, you have to deactivate it in order to be able to work with the operating menu (see page 11).

By way of example of the "Sensitivity" menu, this section describes how to use the operating menu.

### Changing from a standard display to the operating menu



▶ Press the SET button.

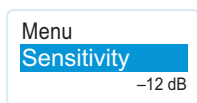
The current standard display is replaced by the main menu.

The last called up menu item is displayed.

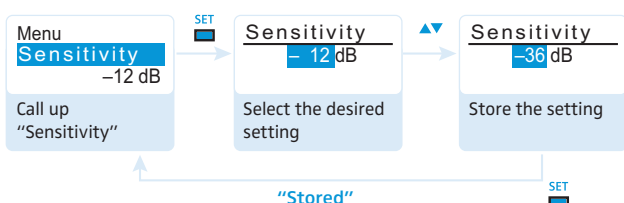


### Selecting a menu item

- ▼ ▲ ▶ Press the UP/DOWN button to change to the "Sensitivity" menu item.  
The current setting of the selected menu item is displayed:



### Changing and storing settings



- SET ▶ Press the SET button to call up the menu item.
- ▼ ▲ ▶ Press the UP/DOWN button to adjust the input sensitivity.
- SET ▶ Press the SET button to store the setting.

### Canceling an entry

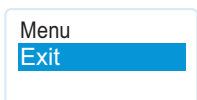
- ON/OFF ▶ Press the ON/OFF button to cancel the entry.  
The current standard display appears on the display panel.

To subsequently return to the last edited menu item:

- SET ▶ Press the SET button repeatedly until the last edited menu item appears.

### Exiting a menu

- ▼ ▲ ▶ Change to the "Exit" menu item.



- SET ▶ Confirm your selection.  
You return to the next higher menu level or exit the operating menu and return to the current standard display.

To directly return to the current standard display:

- ON/OFF ▶ Press the ON/OFF button.

# Adjusting settings via the operating menu

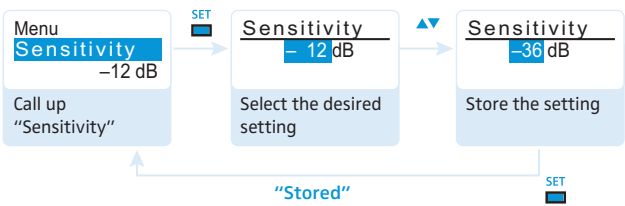
**i** Make use of the possibility to adjust settings via the operating menu of the receiver and to transfer these settings to the plug-on transmitter.

**sync** For more information, refer to the instruction manual of the receiver. The relevant information is marked with the sync icon.

For the sync function to work, transmitter and receiver must have at least software version 1.7 (see page 23).

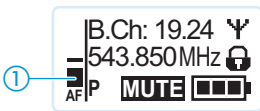
## he main menu “Menu”

### Adjusting the input sensitivity – “Sensitivity”



Adjustment range: 0 to -48 dB, adjustable in steps of 6 dB

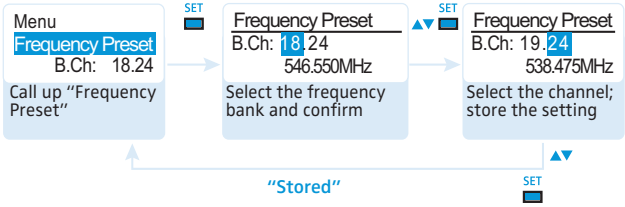
**i** The transmitter’s audio level display “AF” always indicates the audio level, even if the plug-on transmitter is muted, e.g. allowing you to check the adjusted sensitivity before live operation.



Input sensitivity adjusted ...	Effect/display
... too high	Close talking distances, speakers with loud voices or loud music passages cause overmodulation in the transmission link. The audio level display “AF” ① shows full deflection for the duration of the overmodulation.
... correctly	The audio level display “AF” ① shows full deflection only during the loudest passages.
... too low	The transmission link is undermodulated. This results in a signal with high background noise.

**i** Adjust a low input sensitivity when using condenser microphones, adjust a high input sensitivity when using dynamic microphones.

### Selecting the frequency bank and the channel manually – “Frequency Preset”



**i** When you are in the “Frequency Preset” menu item, the RF signal is deactivated.

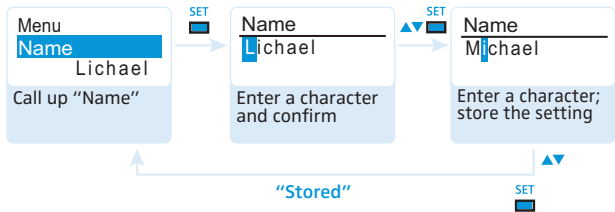
Overview of the frequency banks and channels:

Frequency bank	Channels	Type
“1” to “20”	up to 24 per frequency bank	System bank: frequencies are factory-preset
“U1” to “U6”	up to 24 per frequency bank	User bank: frequencies are freely selectable

**i** When setting up multi-channel systems, please observe the following:

Only the factory-preset transmission frequencies within one frequency bank (“1” to “20”) are inter-modulation-free. It is vital to observe the notes on frequency selection on page 23.

### Entering a name – “Name”



Via the “Name” menu, you can enter a freely selectable name for the plug-on transmitter. The name can be displayed on the standard displays “Frequency/Name” and “Name/Channel” (see page 13) and can consist of up to 8 characters such as:

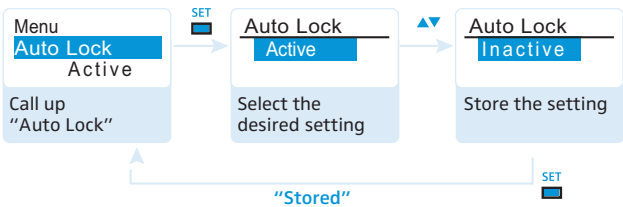
- letters (without pronunciation marks),
- numbers from 0 to 9,
- special characters and spaces.


To enter a name, proceed as follows:

▼ ▲ ▶ Press the UP/DOWN button to select a character.

**SET** ▶ Press the SET button to change to the next segment/character or to store the complete entry.

## Activating/deactivating the automatic lock mode – “Auto Lock”




The lock mode prevents that the plug-on transmitter is accidentally switched off or programmed during operation. The lock mode icon ⑤  on the current standard display indicates that the lock mode is activated.

- ▼▲▶ Press the UP/DOWN to select the desired setting.

For information on how to use the lock mode, refer to page 11.

## The extended menu “Advanced Menu”

### Setting the transmission frequencies for the frequency banks “U1” to “U6” – “Tune”


 When you have selected one of the system banks and then select the “Tune” menu item, the plug-on transmitter automatically switches to channel 1 of the frequency bank “U1”. In this case, “U1.1” briefly appears on the display panel.

Upon delivery, the channels of the frequency banks “U1” to “U6” are not assigned a transmission frequency.

When you are in the “Tune” menu item, the RF signal is deactivated.

Via the “Tune” menu item, you can:

1. set a transmission frequency to be stored in the current channel of the frequency bank (“U1” to “U6”)
2. or select a frequency bank (“U1” to “U6”) and a channel and assign this channel a transmission frequency.

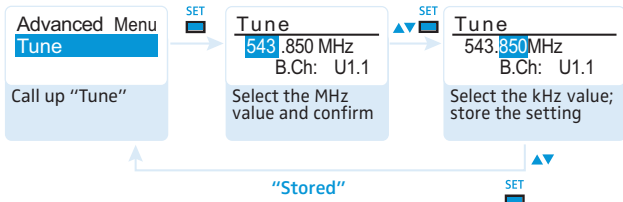
 It is vital to observe the notes on frequency selection on page 23.

## Setting a transmission frequency for the current channel

- ▼ ▲ ▶ Press the UP/DOWN button until the “Tune” menu item appears.



- ▶ Press the SET button. The frequency selection appears.



- ▶ Set the desired frequency.



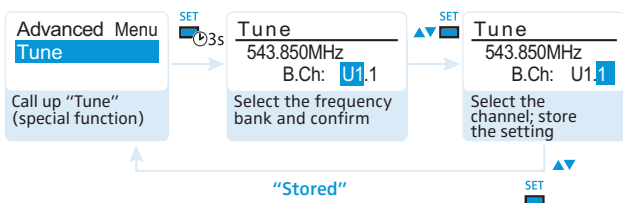
- ▶ Press the SET button. Your settings are stored. You are back to the operating menu.

## Selecting a frequency bank and a channel and assigning this channel a transmission frequency

- ▼ ▲ ▶ Press the UP/DOWN button until the “Tune” menu item appears.



- ▶ Keep the SET button pressed until the frequency bank selection appears.



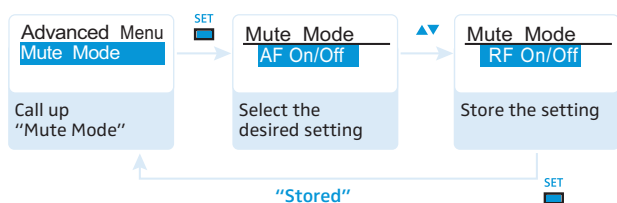
- ▶ Set the desired frequency bank and the desired channel.



- ▶ Press the SET button. The frequency selection appears.

- ▶ Set the desired frequency.

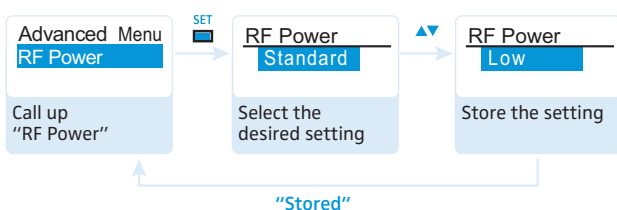
### Setting the mode for the MUTE switch – “Mute Mode”



Mode	Function
“AF On/Off”	When the switch is in the <b>MUTE</b> position, no audio signal is transmitted.
“RF On/Off”	When the switch is in the <b>MUTE</b> position, the RF signal is deactivated.
“Disabled”	The muting function is deactivated.

For information on how to use the **MUTE** switch ⑨ refer to page 12.

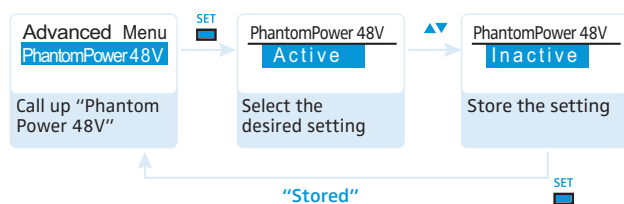
### Adjusting the transmission power – “RF Power”



Via the “**RF Power**” menu item, you can adjust the transmission power in 2 steps (“**Low**” and “**Standard**”).

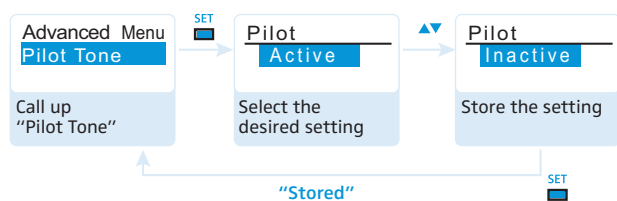
**i** It is vital to observe the notes on the enclosed frequency information sheet!

### Activating/deactivating the phantom powering – “PhantomPower 48V”



Via the “**PhantomPower 48V**” menu item, you can activate or deactivate the 48V phantom powering for condenser microphones.

### Activating/deactivating the pilot tone transmission – “Pilot Tone”

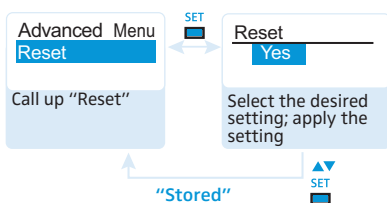


The plug-on transmitter adds an inaudible pilot tone to the audio signal. The receiver detects and evaluates the pilot tone, and is thus able to identify the signal of the matching transmitter and mute all others. The pilot tone supports the receiver's squelch function.

### Adjusting the contrast of the display panel – “LCD Contrast”

You can adjust the contrast of the display panel in 16 steps.

### Resetting the settings made in the operating menu – “Reset”



When resetting the settings made in the operating menu, 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 enclosed frequency information sheet.


### Displaying the software version – “Software Revision”

You can display the current software version of the plug-on transmitter.

- ▶ For information on software updates, visit the SKP 300 G3 product page at [www.sennheiser.com](http://www.sennheiser.com).


# Synchronizing the plug-on transmitter with a receiver

When synchronizing the plug-on transmitter with a receiver, please observe the following:

-  Only use a plug-on transmitter and a receiver from the same frequency range (see the type plates on the transmitter and the receiver).
- ▶ Make sure that the desired frequencies are listed in the enclosed frequency information sheet.
- ▶ Make sure that the desired frequencies are approved and legal in your country and, if necessary, apply for an operating license.
- ▶ Make sure that transmitter and receiver have at least software version 1.7 (see page 22).  
The most current software version is available from your Sennheiser partner or can be downloaded from the SKP 300 G3 product page at [www.sennheiser.com](http://www.sennheiser.com).

## Synchronizing the plug-on transmitter with the receiver – individual operation

Upon delivery, the plug-on transmitter and the receiver are synchronized with each other. If, however, you cannot establish a transmission link between plug-on transmitter and receiver, you have to synchronize the channels of the devices.

For information on automatic synchronization of the plug-on transmitter with the receiver (individual operation), refer to the instruction manual of the receiver. This information is marked with the  icon.

Alternatively, you can set the channel on the plug-on transmitter manually:

- ▶ Make sure that you set the plug-on transmitter to the same frequency bank and the same channel as the receiver (see page 18).

If you still cannot establish a transmission link, refer to the chapter “If a problem occurs ...” on page 27.



## Synchronizing plug-on transmitters with receivers – multi-channel operation

Combined with ew 300 G3 receivers, ew 300 G3 plug-on transmitters can form transmission links that can be used in multi-channel systems.

For information on automatic synchronization of plug-on transmitters with receivers (multi-channel operation), refer to the instruction manual of your receiver.

For more information on multi-channel operation, visit the SKP 300 G3 product page at [www.sennheiser.com](http://www.sennheiser.com).

# Cleaning and maintaining the plug-on transmitter

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## CAUTION

Liquids can damage the electronics of the plug-on transmitter!

Liquids entering the housing of the device can cause a short-circuit and damage the electronics.

- ▶ Keep all liquids away from the plug-on transmitter.
  - ▶ Do not use any solvents or cleansing agents.
- 
- ▶ Use a cloth to clean the plug-on transmitter from time to time.

# Recommendations and tips

## ... for the plug-on transmitter

- For best results, make sure that the transmitter sensitivity is correctly adjusted.

## ... 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 plug-on transmitter and receiving antennas.
- To avoid overloading the receiver, observe a minimum distance of 5 m between plug-on transmitter and receiving antennas.
- The plug-on transmitter uses the microphone body as an antenna – therefore microphones with a metal casing should be used for best signal transmission.

## ... for multi-channel operation

- When operating a multi-channel system, you should only use the channels within one frequency bank. Each of the frequency banks “1” to “20” accommodates factory-preset frequencies which are intermodulation-free.
- When using several transmitters simultaneously, interference can be avoided by maintaining a minimum distance of 20 cm between two transmitters.

## If a problem occurs ...

Problem	Possible cause	Possible solution
Plug-on transmitter cannot be operated, "Locked" appears on the display panel	Lock mode is activated	Deactivate the lock mode (see page 11).
No operation indication	Batteries are flat or accu-pack is flat	Replace the batteries or recharge the accu-pack (see page 8).
No RF signal at the receiver	Plug-on transmitter and receiver are not on the same channel	Set the plug-on transmitter to the same channel as the receiver. Synchronize the plug-on transmitter with the receiver (see page 23).
	Transmission range is exceeded	Reduce the distance between plug-on transmitter and receiving antennas.
	RF signal is deactivated ("RF Mute")	Activate the RF signal (see page 12).
RF signal available, no audio signal, "MUTE" appears on the display panel	Plug-on transmitter is muted (MUTE)	Cancel the muting (see page 12).
	Receiver's squelch threshold is adjusted too high	Reduce the squelch threshold setting on the receiver.
	Plug-on transmitter doesn't transmit a pilot tone	Activate the pilot tone transmission on the transmitter (see page 21).

Problem	Possible cause	Possible solution
RF signal and audio signal available, no "SKP 300" display on the receiver	Plug-on transmitter and receiver do not have software version 1.7 or higher	Update the software of plug-on transmitter and receiver. The current software version is available from your Sennheiser partner or can be downloaded from the SKP 300 G3 product page at <a href="http://www.sennheiser.com">www.sennheiser.com</a> .
Audio signal has a high level of background noise or is distorted	Plug-on transmitter's sensitivity is adjusted too low/too high	Adjust the input sensitivity (see page 17).

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](http://www.sennheiser.com) under "Service & Support".

# Specifications

## RF characteristics

Modulation	wideband FM
Frequency ranges	516–558, 566–608, 606–648, 626–668, 734–776, 780–822, 823–865 MHz (A to E, G, GB, see page 4)
Transmission frequencies	1,680 frequencies, tuneable in steps of 25 kHz 20 frequency banks, each with up to 24 factory-preset channels 6 frequency banks with up to 24 user programmable channels
Switching bandwidth	up to 42 MHz
Nominal/peak deviation	$\pm 24$ kHz / $\pm 48$ kHz
Frequency stability	$\leq \pm 15$ ppm
RF output power at 50 $\Omega$	switchable: typ. 10 mW (“Low”) typ. 30 mW (“Standard”)
Pilot tone squelch	can be switched off

## AF characteristics

Compander system	Sennheiser HDX
AF frequency response	80 to 18,000 Hz
Signal-to-noise ratio (1 mV, peak deviation)	$\geq 120$ dBA
THD	$\leq 0.9\%$
Max. input voltage	6 V <sub>rms</sub>
Input impedance	6 k $\Omega$ , balanced
Adjustment range of input sensitivity	48 dB, adjustable in steps of 6 dB

## Overall device

Temperature range	$-10^{\circ}\text{C}$ to $+55^{\circ}\text{C}$
Power supply	2 AA size batteries, 1.5 V or BA 2015 accupack
Nominal voltage	2.4 V $\approx$
Power consumption	at nominal voltage: <ul style="list-style-type: none"> <li>typ. 210 mA (10 mW RF, w/o P48)</li> </ul> with switched-off plug-on transmitter: <ul style="list-style-type: none"> <li><math>\leq 25</math> <math>\mu\text{A}</math></li> </ul>
Operating time	typ. 8 h (30 mW RF, w/o P48)
Dimensions	approx. 105 mm x 43 mm x 43 mm
Weight (incl. batteries)	approx. 195 g

### In compliance with

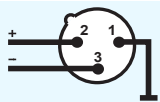
Europe	EMC	EN 301489-1/-9
CE	Radio	EN 300422-1/-2
	Safety	EN 60065
		EN 62311 (SAR)

### Approved by

Canada	Industry Canada RSS 123 IC: 2099A-G3SKP300 limited to 698 MHz
USA	FCC-Part 74 FCC-ID: DMOG3SKP300 limited to 698 MHz

### Pin assignment of the XLR-3 socket

#### XLR-3 socket (female), balanced (Audio In)



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