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Supplementary information can be found on the
SKP 100 G3 product page on our website at
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 in this instruction manual.
- 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 product 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.

Replacement parts

When replacement parts are required, be sure the service technician uses 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.

Intended use

Intended use of the ew 100 G3 series products includes:
- having read these instructions, 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 SKP 100 G3 plug-on transmitter

This plug-on transmitter is part of the evolution wireless series generation 3 (ew G3). With this series, Sennheiser offers high-quality state-of-the-art RF transmission systems with a high level of operational reliability and ease of use. Transmitters and receivers permit wireless transmission with studio-quality sound.

Features of the evolution wireless 100 G3 series:

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

Areas of application

The plug-on transmitter can be combined with the EK 100 G3 diversity receiver and the EM 100 G3 stationary receiver. These receivers are available in the same UHF frequency ranges and are equipped with the same frequency bank system. 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.

The frequency bank system

The plug-on transmitter is available in 6 UHF frequency ranges with 1,680 transmission frequencies per frequency range:

<table>
<thead>
<tr>
<th>Range A: 516 – 558 MHz</th>
<th>Range C: 734 – 776 MHz</th>
<th>Range E: 823 – 865 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range B: 566 – 608 MHz</td>
<td>Range D: 780 – 822 MHz</td>
<td></td>
</tr>
<tr>
<td>Frequency bank 1 ... 20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel 1 – frequency preset</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel 2 – frequency preset</td>
<td></td>
<td></td>
</tr>
<tr>
<td>...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel 12 – frequency preset</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency bank U</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel 1 – freely selectable frequency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel 2 – freely selectable frequency</td>
<td></td>
<td></td>
</tr>
<tr>
<td>...</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel 12 – freely selectable frequency</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Each frequency range (A–E, G) offers 21 frequency banks with up to 12 channels each:

Each of the channels in the frequency banks “1” to “20” has been factory-preset to a fixed frequency (frequency preset).
The factory-preset frequencies within one frequency bank are intermodulation-free. These frequencies cannot be changed. For an overview of the frequency presets, please refer to the supplied frequency information sheet. Updated versions of the frequency information sheet can be downloaded from the SKP 100 G3 product page on our website at www.sennheiser.com.

The frequency bank “U” allows 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 100 G3 plug-on transmitter
2. AA size batteries, 1.5 V
3. Instruction manual
4. Frequency information sheet
5. RF power information sheet
Product overview

Overview of the SKP 100 G3 plug-on transmitter

After switch-on, the plug-on transmitter displays the “Frequency/Name” standard display. For further illustrations and examples of the different standard displays, refer to page 9. The display backlighting is automatically reduced after approx. 20 seconds.

Overview of the displays

<table>
<thead>
<tr>
<th>Display</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Audio level “AF” Modulation of the plug-on transmitter with peak hold function.</td>
</tr>
<tr>
<td>2</td>
<td>Frequency Current transmission frequency</td>
</tr>
<tr>
<td>3</td>
<td>Name Freely selectable name of the transmitter</td>
</tr>
<tr>
<td>4</td>
<td>Transmission icon RF signal is being transmitted</td>
</tr>
<tr>
<td>5</td>
<td>Lock mode icon Lock mode is activated</td>
</tr>
<tr>
<td>6</td>
<td>“P” (pilot tone) Pilot tone transmission is activated</td>
</tr>
<tr>
<td>7</td>
<td>“MUTE” Microphone input is muted</td>
</tr>
<tr>
<td>8</td>
<td>Battery status Charge status:</td>
</tr>
<tr>
<td></td>
<td>approx. 100%</td>
</tr>
<tr>
<td></td>
<td>approx. 70%</td>
</tr>
<tr>
<td></td>
<td>approx. 30%</td>
</tr>
<tr>
<td></td>
<td>charge status is critical, the red LOW BATTERY LED is flashing:</td>
</tr>
</tbody>
</table>

- Microphone input, XLR-3 socket (female, unbalanced)
- Mechanical locking ring of XLR-3 socket
- Infra-red interface
- Display panel, backlight in orange
- UP button (▲)
- DOWN button (▼)
- Operation and battery status indicator, red LED lit = ON
  flashing = LOW BATTERY
- ON/OFF button with ESC function (cancel)
- MUTE switch
- SET button
- Battery compartment cover

5 MHz 533.875 MHz ew 100 G3 MUTE P AF

charge status is critical, the red LOW BATTERY LED is flashing:
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 (see “Accessories” on page 20).

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

- 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 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 (see “Accessories” on page 20).

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 transmitter’s XLR-3F socket.

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

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 diversity receiver on (see the instruction manual of the receiver).
2. Switch the plug-on transmitter on (see next section).

The transmission link is established and the diversity receiver’s RF level display “RF” reacts.

It is vital to observe the notes on frequency selection on page 17.

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 17.

Switching the plug-on transmitter on/off

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

Press the ON/OFF button. The plug-on transmitter transmits an RF signal. The red ON LED lights up and the “Frequency/Name” standard display appears on the display panel. The transmission icon is displayed.

You can switch the plug-on transmitter on and deactivate the RF signal on switch-on. For more information, see below.

To switch the plug-on transmitter off:

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.

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

Keep the ON/OFF button pressed until “RF Mute On?” appears on the display panel.

Press the SET button. The transmission frequency is displayed but the plug-on transmitter does not transmit an RF signal. The transmission icon 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 Off?” appears on the display panel.
- Press the SET button.
  The transmission icon is displayed again.

Deactivating the lock mode temporarily
You can activate or deactivate the automatic lock mode via the “Auto Lock” menu item (see page 14). 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 ON/OFF button.
  “Locked” appears on the display panel.
- Press the UP button (▲).
  “Unlock?” appears on the display panel.
- Press the SET button.
  The lock mode is temporarily deactivated.
How you are using the plug-on transmitter determines how long the lock mode remains 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 flashes prior to the lock mode being activated again.

Muting the audio signal or deactivating the RF signal

The MUTE switch allows you to mute the audio signal or to deactivate the RF signal. Via the “Mute Mode” menu item, you can set the desired function of the MUTE switch (see page 16).

<table>
<thead>
<tr>
<th>Setting</th>
<th>Slide the MUTE switch to</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>“AF On/Off”</td>
<td>... to the left (position MUTE)</td>
<td>Mutes the audio signal</td>
</tr>
<tr>
<td></td>
<td>... to the right</td>
<td>Unmutes the audio signal</td>
</tr>
<tr>
<td>“RF On/Off”</td>
<td>... to the left (position MUTE)</td>
<td>Deactivates the RF signal (offline operation)</td>
</tr>
<tr>
<td></td>
<td>... to the right</td>
<td>Activates the RF signal (online operation)</td>
</tr>
<tr>
<td>“Disabled”</td>
<td>No function</td>
<td></td>
</tr>
</tbody>
</table>
From the “Mute Mode” menu item, select the desired setting (see page 16).

Exit the operating menu.

Slide the MUTE switch 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:

<table>
<thead>
<tr>
<th>State</th>
<th>Transmitter’s display panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio signal is muted</td>
<td>“MUTE”  is displayed</td>
</tr>
<tr>
<td>Audio signal is activated</td>
<td>“MUTE”  is not displayed</td>
</tr>
<tr>
<td>(muting is canceled)</td>
<td></td>
</tr>
<tr>
<td>RF signal is deactivated</td>
<td>“MUTE”  is displayed,</td>
</tr>
<tr>
<td></td>
<td>transmission icon  is not displayed</td>
</tr>
<tr>
<td>RF signal is activated</td>
<td>“MUTE”  is not displayed,</td>
</tr>
<tr>
<td></td>
<td>transmission icon  is displayed</td>
</tr>
</tbody>
</table>

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 7.

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 7.

Selecting a standard display

Press the UP/DOWN button to select a standard display:

<table>
<thead>
<tr>
<th>Contents of the display</th>
<th>Selectable standard display</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Frequency/Name&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Channel/Frequency&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Name/Channel&quot;</td>
<td></td>
</tr>
</tbody>
</table>

MHz533.875 ew100 G3 MUTE P AF

MHz533.875 B.Ch: 20.12 MUTE P AF

MHz533.875 B.Ch: 20.12 MUTE P AF

ew100 G3
Using the operating menu

A special feature of the Sennheiser ew 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

<table>
<thead>
<tr>
<th>Button</th>
<th>Function of the button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press the ON/OFF button</td>
<td>• Switches the plug-on transmitter on and off&lt;br&gt;• Cancels the entry and returns to the current standard display (ESC function)&lt;br&gt;• Activates/deactivates the RF signal (special function, see page 8)</td>
</tr>
<tr>
<td>Press the SET button</td>
<td>• Changes from the current standard display to the operating menu&lt;br&gt;• Calls up a menu item&lt;br&gt;• Enters a submenu&lt;br&gt;• Stores the settings and returns to the operating menu</td>
</tr>
<tr>
<td>Press the UP/DOWN button</td>
<td>• Selects a standard display&lt;br&gt;• Changes to the next/previous menu item&lt;br&gt;• Changes the setting of a menu item</td>
</tr>
</tbody>
</table>

Overview of the operating menu

Main menu “Menu”

- Sensitivity
- Frequency Preset
- Name
- Auto Lock
- Advanced
- Exit

Extended menu “Advanced Menu”

- Tune
- Mute Mode
- Pilot Tone
- LCD Contrast
- Reset
- Software Revision
- Exit

Display

<table>
<thead>
<tr>
<th>Main menu “Menu”</th>
<th>Function of the menu item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>Adjusts the sensitivity “AF”</td>
<td>13</td>
</tr>
<tr>
<td>Frequency Preset</td>
<td>Sets the frequency bank and the channel</td>
<td>13</td>
</tr>
<tr>
<td>Name</td>
<td>Enters a freely selectable name</td>
<td>14</td>
</tr>
<tr>
<td>Auto Lock</td>
<td>Activates/deactivates the automatic lock mode</td>
<td>14</td>
</tr>
<tr>
<td>Advanced</td>
<td>Calls up the extended menu “Advanced Menu”</td>
<td>15</td>
</tr>
<tr>
<td>Exit</td>
<td>Exits the operating menu and returns to the current standard display</td>
<td>–</td>
</tr>
</tbody>
</table>

Extended menu “Advanced Menu”

<table>
<thead>
<tr>
<th></th>
<th>Function of the menu item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tune</td>
<td>Sets the transmission frequencies for the frequency bank “U”</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Sets a channel and a transmission frequency for the frequency bank “U”</td>
<td>15</td>
</tr>
<tr>
<td>Mute Mode</td>
<td>Sets the mode for the MUTE switch</td>
<td>16</td>
</tr>
<tr>
<td>Pilot Tone</td>
<td>Activates/deactivates the pilot tone transmission</td>
<td>16</td>
</tr>
</tbody>
</table>
Using the operating 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 8).

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 selected 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 menu item is displayed:

Changing and storing settings

- Press the SET button to call up the menu item.

- Press the UP/DOWN button to adjust the input sensitivity.

- Press the SET button to store the setting.

Canceling an entry

- 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:

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

<table>
<thead>
<tr>
<th>Display</th>
<th>Function of the menu item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD Contrast</td>
<td>Adjusts the contrast of the display panel</td>
<td>16</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets the settings made in the operating menu</td>
<td></td>
</tr>
<tr>
<td>Software Revision</td>
<td>Displays the current software revision</td>
<td>16</td>
</tr>
<tr>
<td>Exit</td>
<td>Exits the extended menu “Advanced Menu” and returns to the main menu</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Display</th>
<th>Function of the menu item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD Contrast</td>
<td>Adjusts the contrast of the display panel</td>
<td>16</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets the settings made in the operating menu</td>
<td></td>
</tr>
<tr>
<td>Software Revision</td>
<td>Displays the current software revision</td>
<td>16</td>
</tr>
<tr>
<td>Exit</td>
<td>Exits the extended menu “Advanced Menu” and returns to the main menu</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Function of the menu item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD Contrast</td>
<td>16</td>
</tr>
<tr>
<td>Reset</td>
<td></td>
</tr>
<tr>
<td>Software Revision</td>
<td>16</td>
</tr>
<tr>
<td>Exit</td>
<td></td>
</tr>
</tbody>
</table>

Display Function of the menu item

- LCD Contrast
- Reset
- Software Revision
- Exit

If the lock mode is activated, you have to deactivate it in order to be able to work with the operating menu.
Exiting a menu item

Change to the “Exit” menu item.

Confirm your selection.

You return to the next higher menu level or you exit the operating menu and return to the current standard display.

To directly return to the current standard display:

Press the ON/OFF button.
Adjusting settings via the operating menu

Make use of the possibility to adjust settings via the operating menu of your receiver and to transfer these settings to the plug-on transmitter. For more information, refer to the instruction manual of the receiver. The relevant information is marked with the sync icon.

The main menu “Menu”

Adjusting the input sensitivity – “Sensitivity”

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

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”

When you are in the “Frequency Preset” menu item, the RF signal is deactivated.
Overview of the frequency banks and channels:

<table>
<thead>
<tr>
<th>Frequency bank</th>
<th>Channels</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>“1” to “20”</td>
<td>up to 12 per frequency bank</td>
<td>System bank: frequencies are factory-preset</td>
</tr>
<tr>
<td>“U”</td>
<td>up to 12</td>
<td>User bank: frequencies are freely selectable</td>
</tr>
</tbody>
</table>

When setting up multi-channel systems, please observe the following:
Only the factory-preset frequencies within one frequency bank (“1” to “20”) are intermodulation-free. It is vital to observe the notes on frequency selection on page 17.

Entering a name – “Name”

Via the “Name” menu item, you can enter a freely selectable name (e.g. the name of the performer) for the plug-on transmitter.

The name can be displayed on the “Frequency/Name” and “Name/Channel” standard displays (see page 9). The name 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:

1. Press the UP/DOWN button to select a character.
2. 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 programed during operation. The lock mode icon on the current standard display indicates that the lock mode is activated.

1. Press the UP/DOWN button to select the desired setting.

For information on how to use the lock mode, refer to page 8.
The extended menu “Advanced Menu”

Setting transmission frequencies and the frequency bank “U” – “Tune”

When you have selected one of the system banks and then select the “Tune” menu, the plug-on transmitter automatically switches to channel 1 of the frequency bank “U”. In this case, “U.1” briefly appears on the display panel. Upon delivery, the channels of the frequency bank “U” 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 set a transmission frequency to be stored in the current channel or you can select a different channel in the frequency bank “U” and assign it a transmission frequency.

It is vital to observe the notes on frequency selection on page 17.

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 channel and assigning this channel a frequency

Press the UP/DOWN button until the “Tune” menu item appears.

Keep the SET button pressed until the channel selection appears.

Set the desired channel.

Press the SET button.

The frequency selection appears.

Set the desired frequency.
Adjusting settings via the operating menu

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

For information on how to use the MUTE switch, refer to page 8.

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.

Devices of the ew 100 G1 series (generation 1) do not support the pilot tone function. Therefore, please observe the following when combining a transmitter or receiver of the ew 100 G3 series (generation 3) with devices from an earlier evolution wireless generation:

Transmitter | Receiver | Make sure to ...  
--- | --- | ---  
G3 | G3 | activate the pilot tone function on both transmitter and receiver.  
G1 | G3 | deactivate the pilot tone function on the ew 100 G3 transmitter.  
G3 | G1 | deactivate the pilot tone function on the ew 100 G3 receiver.

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 bank “U” remain unchanged. For an overview of the factory-preset default settings, refer to the enclosed frequency information sheet.

Displaying the software revision – “Software Revision”

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

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 13).

If you still cannot establish a transmission link, refer to the chapter “If a problem occurs ...” on page 19.

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

Combined with ew 100 G3 receivers, ew 100 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 100 G3 product page at www.sennheiser.com.
Cleaning the plug-on transmitter

Cleaning the plug-on transmitter

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 ...

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Possible solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug-on transmitter cannot be operated, “Locked” appears on the display panel</td>
<td>Lock mode is activated</td>
<td>Deactivate the lock mode (see page 8).</td>
</tr>
<tr>
<td>No operation indication</td>
<td>Batteries are flat or accupack is flat</td>
<td>Replace the batteries or recharge the accupack (see page 6).</td>
</tr>
<tr>
<td>No RF signal at the receiver</td>
<td>Plug-on transmitter and receiver are not on the same channel</td>
<td>Set the plug-on transmitter to the same channel as the receiver. Synchronize the plug-on transmitter with the receiver (see page 17).</td>
</tr>
<tr>
<td></td>
<td>Transmission range is exceeded</td>
<td>Reduce the distance between plug-on transmitter and receiving antennas.</td>
</tr>
<tr>
<td></td>
<td>RF signal is deactivated (“RF Mute”)</td>
<td>Activate the RF signal (see page 8).</td>
</tr>
<tr>
<td>RF signal available, no audio signal, “MUTE” appears on the display panel</td>
<td>Plug-on transmitter is muted (MUTE)</td>
<td>Cancel the muting (see page 8).</td>
</tr>
<tr>
<td></td>
<td>Receiver’s squelch threshold is adjusted too high</td>
<td>Reduce the squelch threshold setting on the receiver.</td>
</tr>
<tr>
<td></td>
<td>Plug-on transmitter doesn’t transmit a pilot tone</td>
<td>Activate the pilot tone transmission (see page 16).</td>
</tr>
<tr>
<td>Audio signal has a high level of background noise or audio signal is distorted</td>
<td>Plug-on transmitter’s sensitivity is adjusted too low/too high</td>
<td>Adjust the input sensitivity (see page 13).</td>
</tr>
</tbody>
</table>

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”.

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## Accessories

The following SKP 100 G3 accessories are available from your specialist dealer:

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Accessory</th>
</tr>
</thead>
<tbody>
<tr>
<td>009950</td>
<td>BA 2015 accupack</td>
</tr>
<tr>
<td>009828</td>
<td>L 2015 charger</td>
</tr>
<tr>
<td>005232</td>
<td>POP 1 pouch (with belt clip)</td>
</tr>
</tbody>
</table>
Specifications

**RF characteristics**
- **Modulation**: wideband FM
- **Frequency ranges**: 516–558, 566–608, 626–668, 734–776, 780–822, 823–865 MHz (A to E, G, see page 3)
- **Transmission frequencies**: 1,680 frequencies, tuneable in steps of 25 kHz
- **20 frequency banks**, each with up to 12 factory-preset channels
- **1 frequency bank** with up to 12 user programmable channels
- **Switching bandwidth**: 42 MHz
- **Nominal/peak deviation**: ±24 kHz/±48 kHz
- **Frequency stability**: ≤±15 ppm
- **RF output power at 50 Ω**: typ. 30 mW
- **Pilot tone squelch**: can be switched off

**AF characteristics**
- **Comander system**: Sennheiser HDX
- **AF frequency response**: 80–18,000 Hz
- **Signal-to-noise ratio** (1 mV RF, peak deviation): ≥110 dBA
- **THD**: ≤0.9%
- **Max. input voltage**: 3.3 Vrms
- **Input impedance**: 60 kΩ, unbalanced
- **Adjustment range of input sensitivity**: 48 dB, adjustable in steps of 6 dB

**Overall device**
- **Temperature range**: −10 °C to +55 °C
- **Power supply**: 2 AA size batteries, 1.5 V or BA 2015 accupack
- **Nominal voltage**: 2.4 V
- **Power consumption**
  - typ. 180 mA
  - ≤25 µA
- **Operating time**: typ. 8 hrs
- **Dimensions**: approx. 105 mm x 43 mm x 43 mm
- **Weight (incl. batteries)**: approx. 195 g

**In compliance with**
- **Europe**: EN 301489-1/-9, EN 300422-1/-2, EN 60065, EN 62311 (SAR)
- **Canada**: Industry Canada RSS 123
  - IC: 2099A-G3SKP, limited to 806 MHz
- **USA**: FCC-Part 74
  - FCC-ID: DMOG3SKP, limited to 698 MHz

**Approved by**
- **Canada**: Industry Canada RSS 123
- **USA**: FCC-Part 74
  - FCC-ID: DMOG3SKP, limited to 698 MHz
Pin assignment of XLR-3 socket

XLR-3 socket (female), unbalanced (Audio In)
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