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For an animated instruction manual, visit the respective product pages at www.sennheiser.com.

There you will also find detailed instruction manuals for the individual devices.
Important safety instructions

System
• Read this instruction manual.
• Keep this instruction manual. Always include this instruction manual when passing the devices and the mains unit on to third parties.
• Heed all warnings and follow all instructions in this instruction manual.
• Only clean the devices when they are not connected to the mains. Use a cloth for cleaning.
• Only use attachments/accessories specified by Sennheiser.
• Refer all servicing to qualified service personnel.
  Servicing is required if the devices or the mains unit have been damaged in any way, liquid has been spilled, objects have fallen inside, the devices 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 devices and the mains unit near water and do not expose them to rain or moisture.

Receiver
• Only use the supplied mains unit.
• Unplug the mains unit from the wall socket
  – to completely disconnect the device 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 device in accordance with the instructions given in this instruction manual.
• Do not install the device and the mains unit near any heat sources such as radiators, heat registers, 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.
• Danger due to high volumes
  This device 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.

Bodypack transmitter and radio microphone

Do not place the devices 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 100 G3 series devices includes:
• having read this instruction manual especially the chapter “Important safety instructions”,
• using the devices within the operating conditions and limitations described in this instruction manual.

“Improper use” means using the devices other than as described in these instructions, or under operating conditions which differ from those described herein.
The ew 100 G3 evolution wireless series

With the ew 100 G3 evolution wireless 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.

The frequency bank system

Please note: Frequency usage is different for each country. Your Sennheiser partner will have all the necessary details on the available legal frequencies for your area.

The devices are available in 6 UHF frequency ranges with 1,680 frequencies per frequency range:

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 product page on our website at www.sennheiser.com.
- The frequency bank “U” allows you to freely select and store frequencies. It might be that these frequencies are not intermodulation-free.
Product overview

Overview of the EM 100 receiver

A Operating elements – front panel

1 sync button
2 Infra-red interface
3 Display panel, backlit in orange
4 SET button
5 UP/DOWN button
6 STANDBY button, serves as the ESC (cancel) key in the operating menu

B Operating elements – rear panel

7 Cable grip for power supply DC cable
8 DC socket (DC IN) for connection of NT 2 mains unit
9 Audio output (AF OUT BAL), XLR-3M socket, balanced
10 Audio output (AF OUT UNBAL), ¼” (6.3 mm) jack socket, unbalanced
11 Service interface (DATA)
12 Service interface (DATA)
13 Antenna input I (ANT II) with remote power supply input, BNC socket
14 Type plate
15 Antenna input I (ANT I) with remote power supply input, BNC socket
Overview of the displays of the EM 100 receiver

After switch-on, the receiver displays the standard display “Receiver Parameters”. For further illustrations and examples of the different standard displays, please refer to 24. This standard display displays the operating states of the receiver.

<table>
<thead>
<tr>
<th>Display</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> RF level “RF” (Radio Frequency)</td>
<td>Diversity display:</td>
</tr>
<tr>
<td></td>
<td>Antenna input I is active</td>
</tr>
<tr>
<td></td>
<td>Antenna input II is active</td>
</tr>
<tr>
<td></td>
<td>RF signal level:</td>
</tr>
<tr>
<td></td>
<td>Field strength of the transmitted signal</td>
</tr>
<tr>
<td></td>
<td>Squelch threshold level</td>
</tr>
<tr>
<td><strong>2</strong> Audio level “AF” (Audio Frequency)</td>
<td>Modulation of the transmitter with peak hold function.</td>
</tr>
<tr>
<td></td>
<td>When the level display for audio level shows full deflection, the audio input level is excessively high. When the transmitter is overmodulated frequently or for extended periods of time, the “PEAK” display is shown inverted.</td>
</tr>
<tr>
<td><strong>3</strong> Frequency bank and channel</td>
<td>Current frequency bank and channel number</td>
</tr>
<tr>
<td><strong>4</strong> Frequency</td>
<td>Current receiving frequency</td>
</tr>
<tr>
<td><strong>5</strong> Name</td>
<td>Freely selectable name of the receiver</td>
</tr>
<tr>
<td><strong>6</strong> Pilot tone “P”</td>
<td>Activated pilot tone evaluation</td>
</tr>
<tr>
<td><strong>7</strong> Muting function “MUTE”</td>
<td>Receiver is muted</td>
</tr>
<tr>
<td></td>
<td>Receiver does not output an audio signal (see also page 28).</td>
</tr>
<tr>
<td><strong>8</strong> Battery status of the transmitter</td>
<td>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>Icon is flashing; charge status is critical</td>
</tr>
<tr>
<td><strong>9</strong> Lock mode icon</td>
<td>Lock mode is activated</td>
</tr>
</tbody>
</table>
Overview of the SK 100 bodypack transmitter

Operating elements

1. Microphone/instrument input (MIC/LINE), 3.5 mm jack socket, lockable
2. MUTE switch
3. Antenna
4. Operation and battery status indicator, red LED (lit = ON/flashing = LOW BATTERY)
5. Audio overmodulation indicator, yellow LED (lit = AF PEAK)
6. Charging contacts
7. SET button
8. ▲/▼ rocker button (UP/DOWN)
9. Battery compartment
10. Battery compartment cover
11. Battery compartment catches
12. Infra-red interface
13. ON/OFF button, serves as the ESC (cancel) key in the operating menu
14. Display panel, backlit in orange
Overview of the displays of the SK 100 bodypack transmitter

After switch-on, the bodypack transmitter displays the standard display “Frequency/Name”. For further illustrations and examples of the different standard displays, refer to 24. The display backlighting is automatically reduced after approx. 20 seconds.

<table>
<thead>
<tr>
<th>Display</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Audio level “AF”</td>
<td>Modulation of the bodypack transmitter with peak hold function. When the transmitter’s audio input level is excessively high, the “AF” display shows full deflection and, in addition, the yellow AF PEAK LED lights up:</td>
</tr>
<tr>
<td>2 Frequency</td>
<td>Current transmission frequency</td>
</tr>
<tr>
<td>3 Name</td>
<td>Freely selectable name of the bodypack transmitter</td>
</tr>
<tr>
<td>4 Transmission icon</td>
<td>RF signal is being transmitted</td>
</tr>
<tr>
<td>5 Lock mode icon</td>
<td>Lock mode is activated</td>
</tr>
<tr>
<td>6 “P” (Pilot)</td>
<td>Pilot tone transmission is activated</td>
</tr>
<tr>
<td>7 “MUTE”</td>
<td>Microphone or line input is muted</td>
</tr>
<tr>
<td>8 Battery status</td>
<td>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 BATT LED is flashing:</td>
</tr>
</tbody>
</table>
Overview of the SKM 100 radio microphone

Operating elements

1. Microphone head (interchangeable)
2. Name and pick-up pattern of the microphone head (not visible here)
3. Body of radio microphone
4. Battery compartment (not visible from outside)
5. Display panel, backlit in orange
6. Infra-red interface
7. Antenna
8. Color-coded protection ring; available in different colors
9. Operation and battery status indicator, red LED (lit = ON/flashing = LOW BATTERY)
10. Charging contacts
11. Multi-function switch: ▼ (DOWN), ▲ (UP) and □ (SET)
12. ON/OFF button, serves as the ESC (cancel) key in the operating menu
Overview of the displays of the SKM 100 radio microphone

After switch-on, the radio microphone displays the standard display “Frequency/Name”. For further illustrations and examples of the different standard displays, refer to 24. The display backlighting is automatically reduced after approx. 20 seconds.

<table>
<thead>
<tr>
<th>Display</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Audio level “AF”</td>
</tr>
<tr>
<td>2</td>
<td>Frequency</td>
</tr>
<tr>
<td>3</td>
<td>Name</td>
</tr>
<tr>
<td>4</td>
<td>Transmission icon</td>
</tr>
<tr>
<td>5</td>
<td>Lock mode icon</td>
</tr>
<tr>
<td>6</td>
<td>“P” (Pilot)</td>
</tr>
<tr>
<td>7</td>
<td>“MUTE”</td>
</tr>
<tr>
<td>8</td>
<td>Battery status</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Putting the devices into operation

EM 100 receiver

You can set up the receiver on a flat surface or mount it into a 19" rack. For information on rack mounting, refer to the instruction manual of the EM 100 receiver available on the ew G3 product page at www.sennheiser.com.

Setting up the receiver on a flat surface

Place the receiver on a flat, horizontal surface. Please note that the device feet can leave stains on delicate surfaces.

To fasten the stacking elements:

1. Unscrew and remove the two recessed head screws (M4x8) on each side of the receiver (see diagram).
2. Secure the stacking elements to the sides of the receiver using the previously removed recessed head screws (see diagram).

The stacking elements are designed to help protect the operating elements from damage or deformation, e.g. if the receiver is dropped. Therefore, fasten the stacking elements, even if you do not want to stack your receivers.

Fitting the device feet

The device feet are fitted to the base of the receiver (see diagram).

If you want to stack receivers (see following section), only fit the device feet to the base of the lowermost receiver.

1. Clean the base of the receiver where you want to fix the device feet.
2. Fix the device feet to the base of the receiver by peeling off the backing paper and fitting them as shown on the left.
Putting the devices into operation

Stacking receivers ▶ Stack several receivers on top of each other.

Connecting the rod antennas
The supplied rod antennas are suitable for use in good reception conditions.
▶ Connect the antennas. You have the following options:
  – You can connect the rod antennas to the rear of the receiver.
  – You can use the optional AM 2 antenna front mount kit and mount the rod antennas to the front of the receiver (see the instruction manual of the EM 100 receiver available on the ew G3 product page at www.sennheiser.com).
▶ Align the antennas in a V-shape.

Connecting an amplifier/mixing console
The receiver’s XLR-3M socket and the ¼” (6.3 mm) jack socket are connected in parallel.
▶ Use a suitable cable to connect the amplifier/mixing console to the XLR-3M socket or the ¼” (6.3 mm) jack socket.
▶ Via the operating menu, adjust the audio output level (“AF Out”) of the receiver to the input of the amplifier or mixing console (see page 26). The audio output level is adjusted via the operating menu and is common for both sockets.
Connecting the mains unit

Only use the supplied mains unit. It is designed for the receiver and ensures safe operation.

To connect the mains unit:

- Insert the connector of the mains unit 7 into the socket 8 of the receiver.
- Pass the cable of the mains unit through the cable grip 7.
- Slide the supplied country adapter 10 onto the mains unit 7.
- Plug the mains unit 7 into a wall socket.

SK 100 bodypack transmitter

Inserting the batteries/accupack

For powering the bodypack transmitter, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack.

- Push the two catches 11 in the direction of the arrows and open the battery compartment cover 10.

- Insert the two batteries or the accupack as shown above. Observe correct polarity when inserting the batteries/accupack.
- Close the battery compartment. The battery compartment cover 10 locks into place with an audible click.
Charging the accupack

To charge the BA 2015 accupack:

- Insert the bodypack transmitter into the L 2015 charger (optional accessory).

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

Connecting the microphone cable/instrument cable

The audio input is designed for the connection of both condenser microphones and instruments (e.g. guitars). DC powering of the condenser microphones is via the audio input.

- Use one of the recommended Sennheiser microphones or the optional CI 1 instrument cable.
- Connect the 3.5 mm jack plug from the Sennheiser microphone or instrument cable to the 3.5 mm jack socket MIC/LINE 1.
- Lock the 3.5 mm jack plug by screwing down the coupling ring of the cable.
- Via the operating menu, adjust the sensitivity of the microphone/line input.

Attaching and positioning the corresponding microphones

ME 2/ME 4

- Use the microphone clip to attach the microphone to clothing (e.g. tie, lapel).

The ME 2 clip-on microphone (shown on the right in the diagram) has an omni-directional pick-up pattern. It is therefore not necessary to position it precisely.

- Attach the ME 2 microphone as close as possible to the sound source.

The ME 4 clip-on microphone (shown on the left in the diagram) has a cardioid pick-up pattern.

- Position the ME 4 microphone so that its sound inlet is directed towards the sound source (e.g. mouth).

ME 3

- Adjust the ME 3 headmic so that a comfortable and secure fit is ensured.

The ME 3 headmic has a cardioid pick-up pattern.

- Position the microphone so that its sound inlet is directed towards the sound source (e.g. mouth).

Attaching the bodypack transmitter to clothing

You can use the belt clip to attach the bodypack transmitter to clothing (e.g. belt, waistband).

The belt clip is detachable so that you can also attach the transmitter with the antenna pointing downwards. To do so, withdraw the belt clip from its fixing points and attach it the other way round. The belt clip is secured so that it cannot slide out of its fixing points accidentally.
To detach the belt clip:

- Lift one side of the belt clip as shown in the diagram on the right-hand side.
- Press down the belt clip at one fixing point and pull it out of the transmitter housing.
- Repeat for the other side.

**SKM 100 radio microphone**

**Inserting the batteries/accupack**

For powering the radio microphone, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack.

- Unscrew the lower part of the radio microphone from the radio microphone’s body by turning it counterclockwise.

When unscrewing the radio microphone during operation, the muting function is automatically activated. “MUTE” appears on the display panel.

When screwing the lower part of the radio microphone back to the radio microphone’s body, the muting function is deactivated.

- Slide back the lower part of the radio microphone as far as it will go.
- Open the battery compartment cover.
- Insert the batteries or the BA 2015 accupack as shown on the battery compartment cover. Observe correct polarity when inserting the batteries/accupack.

- Close the battery compartment cover.
- Push the battery compartment into the radio microphone’s body.
- Screw the lower part of the radio microphone back to the radio microphone’s body.
Charging the accupack

To charge the radio microphone with the inserted BA 2015 accupack (optional accessory):

- Use the LA 2 charging adapter to insert the radio microphone into the L 2015 charger (both the charger and the charging adapter are available as optional accessories).

Changing the microphone head

The microphone head is easy to change.

- Unscrew the microphone head.

![Diagram of unscrewing the microphone head](image)

**Do not touch the contacts of the radio microphone nor the contacts of the microphone head. The contacts can become dirty or damaged if touched.**

When unscrewing the microphone head during operation, the muting function is automatically activated. "MUTE" appears on the display panel.

When screwing the microphone head back to the radio microphone, the muting function is deactivated.

- Screw the desired microphone head to the radio microphone.
- Put the radio microphone back into operation.

Changing the color-coded protection ring

The color-coded protection ring prevents the multi-function switch from accidental operation. Protection rings in different colors are available as accessories. The protection rings allow you to clearly identify each radio microphone.

- Remove the color-coded protection ring as shown in the left-hand diagram.
- Put on a new protection ring as shown in the right-hand diagram.
Using the devices

To establish a transmission link, proceed as follows:

1. Switch the receiver on.
2. Switch a transmitter on.
   The transmission link is established and the receiver's RF level display "RF" reacts.

If you cannot establish a transmission link between transmitter and receiver:

- Make sure that transmitter and receiver are set to the same frequency bank and to the same channel.
- If necessary, read the chapter “If a problem occurs ...” on page 28.

It is vital to observe the following notes:

- 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.

Switching the devices on/off

EM 100 receiver

To switch the receiver on:

- Briefly press the STANDBY button 6.
  The receiver switches on and the “Receiver Parameters” standard display appears.

To switch the receiver to standby mode:

- If necessary, deactivate the lock mode (see page 21).

- Keep the STANDBY button 6 pressed until “OFF” appears on the display panel.

When in the operating menu, pressing the STANDBY button 6 will cancel your entry (ESC function) and return you to the current standard display.
To **completely** switch the receiver **off**:

- Disconnect the receiver from the mains by unplugging the mains unit from the wall socket.

**SK 100 bodypack transmitter**

To switch the bodypack transmitter **on** (online operation):

- Push the two catches **11** and open the battery compartment cover **10**.

**ON/OFF**

- Briefly press the **ON/OFF** button **12**.
  
  The bodypack transmitter transmits an RF signal. The transmission icon **4** is displayed.
  
  The red **ON LED 4** lights up and the standard display “Frequency/Name” appears on the display panel.

---

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

---

To switch the bodypack transmitter **off**:

- If necessary, deactivate the lock mode (see page 21).

**ON/OFF**

- Press the **ON/OFF** button **12** until “OFF” appears on the display panel. The red **ON LED 4** goes off and the display panel turns off.

---

When in the operating menu, pressing the **ON/OFF** button **12** will cancel your entry (ESC function) and return you to the current standard display.

---

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

**ON/OFF**

- Press the **ON/OFF** button **12** until “RF Mute On?” appears on the display panel.

**SET**

- Press the **SET** button **7**.

  The transmission frequency is displayed but the bodypack transmitter does not transmit an RF signal. The transmission icon **4** is not displayed.
To activate the RF signal:

- Briefly press the ON/OFF button 13.
- “RF Mute Off” appears on the display panel.
- Press the SET button 7.
- The transmission icon 4 is displayed again.

**SKM 100 radio microphone**

To switch the radio microphone on (online operation):

- Briefly press the ON/OFF button 12.
- The radio microphone transmits an RF signal. The transmission icon 4 is displayed. The red ON LED 9 lights up and the standard display “Frequency/Name” appears on the display panel.

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

To switch the radio microphone off:

- If necessary, deactivate the lock mode (see page 21).

- Press the ON/OFF button 12 until “OFF” appears on the display panel. The red ON LED 9 goes off and the display panel turns off.

When in the operating menu, pressing the ON/OFF button 12 will cancel your entry (ESC function) and return you to the current standard display.
To switch the radio microphone on and to deactivate the RF signal on switch-on (offline operation):

1. Press the ON/OFF button until “RF Mute On?” appears on the display panel.
2. Press the multi-function switch.

The transmission frequency is displayed but the radio microphone does not transmit an RF signal. The transmission icon is not displayed.

Use this function to save battery power or to prepare a radio microphone for use during live operation without causing interference to existing transmission links.

To activate the RF signal:

1. Briefly press the ON/OFF button.
2. “RF Mute Off” appears on the display panel.
3. Press the multi-function switch.

The transmission icon is displayed again.

**Synchronizing a transmitter with the receiver**

You can synchronize a suitable transmitter of the ew 100 G3 series with the receiver. During synchronization, the following parameters are transferred to the transmitter:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Transferred parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Frequency Preset”</td>
<td>Currently set frequency</td>
</tr>
<tr>
<td>“Name”</td>
<td>Freely selectable name currently set on the receiver</td>
</tr>
<tr>
<td>“Pilot Tone”</td>
<td>Current pilot tone setting of the receiver (“Inactive”/“Active”)</td>
</tr>
</tbody>
</table>

To transfer the parameters:

1. Switch the transmitter and the receiver on.
2. Press the SYN button on the receiver.
3. “Sync” appears on the display panel of the receiver.
4. Place the infra-red interface of the transmitter (see page 7 and 9) in front of the infra-red interface of the receiver.

The parameters are transferred to the transmitter. When the transfer is completed, “✓” appears on the display panel. The receiver then switches back to the current standard display.

To cancel the transfer:

1. Press the STANDBY button on the receiver.
“X” appears on the display panel of the receiver. “X” also appears if:
- no transmitter was found or the transmitter is not compatible,
- no transmitter was found and the synchronization process was canceled after 30 seconds,
- you canceled the transfer.

Deactivating the lock mode temporarily

You can activate or deactivate the automatic lock mode via the “Auto Lock” menu item (see page 25). If the lock mode is activated, you have to temporarily deactivate it in order to be able to operate the devices:

**EM 100**
- Press the UP/DOWN button.
  “Unlock?” appears on the display panel.
- Press the SET button.
  The lock mode is temporarily deactivated (see below).

**SK 100**
- Press the rocker button.
  “Unlock?” appears on the display panel.
- Press the SET button.
  The lock mode is temporarily deactivated (see below).

**SKM 100**
- Move the multi-function switch upwards/downwards.
  “Unlock?” appears on the display panel.
- Press the multi-function switch.
  The lock mode is temporarily deactivated (see below).

How you are using the devices determines how long the lock mode remains deactivated:

**When in the operating menu**
The lock mode is deactivated as long as you are working with the operating menu.

**When one of the standard displays is shown**
The lock mode is automatically activated after 10 seconds.

Prior to this, the lock mode icon flashes, indicating that the lock mode is being activated.
Muting the audio signal or deactivating the RF signal

**EM 100**

To mute the audio signal:

- When one of the standard displays is shown on the display panel, press the **STANDBY** button. “RX Mute On?” appears on the display panel.
- Press the **SET** button. The audio signal is muted.

To unmute the audio signal:

- Press the **STANDBY** button. “RX Mute Off?” appears on the display panel.
- Press the **SET** button. The muting is canceled.

**SK 100**

The **MUTE** switch 2 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 2:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Slide the MUTE switch 2 ...</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Disabled”</td>
<td>... to the left (position MUTE)</td>
<td>None</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>“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>
</tbody>
</table>

- From the “Mute Mode” menu item, select the desired setting (see page 27).
- Exit the operating menu.
- Slide the **MUTE** switch 2 to the left, to the position **MUTE**. The bodypack 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 bodypack transmitter.

<table>
<thead>
<tr>
<th>Audio signal is muted</th>
<th>Transmitter’s display panel: “MUTE” (^{\text{①}}) is displayed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio signal is activated (muting is canceled)</td>
<td>Transmitter’s display panel: “MUTE” (^{\text{①}}) is not displayed</td>
</tr>
<tr>
<td>RF signal is deactivated</td>
<td>Transmitter’s display panel: Transmission icon (^{\text{④}}) is not displayed</td>
</tr>
<tr>
<td>RF signal is activated</td>
<td>Transmitter’s display panel: Transmission icon (^{\text{④}}) 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 devices on/off” on page 20.

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 18.

**SKM 100**

You can deactivate the RF signal on switch-on. For more information, refer to the chapter “Switching the devices on/off” on 20.

To deactivate the RF signal during operation:

- When one of the standard displays is shown on the display panel, press the ON/OFF button.
  - “RX Mute On?” appears on the display panel.
- Proceed as described on 20.
Selecting a standard display

**EM 100**
- 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><img src="image" alt="Receiver Parameters" /></td>
<td>“Receiver Parameters” appears after switch-on of the receiver and displays the receiver parameters (see page 5).</td>
</tr>
<tr>
<td><img src="image" alt="Soundcheck" /></td>
<td>“Soundcheck” (display with additional function) displays the signal quality within the transmission area.</td>
</tr>
<tr>
<td><img src="image" alt="Guitar Tuner" /></td>
<td>“Guitar Tuner” (display with additional function) displays the guitar tuner.*</td>
</tr>
</tbody>
</table>

* The “Guitar Tuner” standard display is deactivated upon delivery. To show this standard display, you have to activate it (see page 26).

Information on the soundcheck function and the guitar tuner function can be found in the instruction manual of the EM 100 receiver available on the ew G3 product page at www.sennheiser.com.

**SK 100** and **SKM 100**
To select a standard display:

<table>
<thead>
<tr>
<th>SK 100</th>
<th>SKM 100</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Press the rocker button" /></td>
<td><img src="image" alt="Move the multi-function switch" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contents of the display</th>
<th>Selectable standard display</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Frequency/Name" /></td>
<td>“Frequency/Name”</td>
</tr>
<tr>
<td><img src="image" alt="Channel/Frequency" /></td>
<td>“Channel/Frequency”</td>
</tr>
<tr>
<td><img src="image" alt="Channel/Name" /></td>
<td>“Channel/Name”</td>
</tr>
</tbody>
</table>
Overview of the operating menus

For more detailed information on the operating menus, refer to the individual instruction manuals of the devices. These instruction manuals can be downloaded from the respective product pages at www.sennheiser.com.

**EM 100**

When one of the standard displays is shown on the display panel, you can get into the main menu by pressing the *SET* button 3. The extended menu “Advanced Menu” and the submenu “Easy Setup” can be accessed via the corresponding menu items.

<table>
<thead>
<tr>
<th>Display</th>
<th>Function of the menu item</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main menu “Menu”</strong></td>
<td></td>
</tr>
<tr>
<td>Squelch</td>
<td>Adjusts the squelch threshold</td>
</tr>
<tr>
<td></td>
<td>Adjustment range: adjustable in three steps “Low”, “Middle”, “High”</td>
</tr>
<tr>
<td></td>
<td>Special function (for servicing purposes only): With the squelch threshold set to “Low”, you switch the squelch off by keeping the <strong>DOWN</strong> button 5 pressed. If you then press the <strong>UP</strong> button 6, you switch the squelch on again.</td>
</tr>
<tr>
<td><strong>CAUTION!</strong></td>
<td>Danger of hearing damage and material damage!</td>
</tr>
<tr>
<td></td>
<td>If you switch the squelch off or adjust the squelch threshold to a very low value, loud hissing noise can occur in the receiver.</td>
</tr>
<tr>
<td></td>
<td>The hissing noise can be loud enough to cause hearing damage or overload the loudspeakers of your system!</td>
</tr>
<tr>
<td></td>
<td>▶ Always make sure that the squelch is switched on (see above).</td>
</tr>
<tr>
<td></td>
<td>▶ Before adjusting the squelch threshold, set the volume of the audio output level to the minimum.</td>
</tr>
<tr>
<td></td>
<td>▶ Never change the squelch threshold during a live transmission.</td>
</tr>
</tbody>
</table>
**Overview of the operating menus**

<table>
<thead>
<tr>
<th>Display</th>
<th>Function of the menu item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy Setup</td>
<td>Scans for unused frequency presets, releases and selects frequency presets</td>
</tr>
<tr>
<td>Frequency Preset</td>
<td>Changes the frequency bank and the channel</td>
</tr>
<tr>
<td>Name</td>
<td>Enters a freely selectable name</td>
</tr>
<tr>
<td>AF Out</td>
<td>Adjusts the audio output level</td>
</tr>
<tr>
<td></td>
<td>Adjustment range: -24 dB to +24 dB, adjustable in 3-dB steps, 6 dB gain reserve</td>
</tr>
<tr>
<td></td>
<td>Special function “gain reserve”: When you have adjusted a level of +18 dB, press the UP button until the next higher value appears.</td>
</tr>
<tr>
<td>Equalizer</td>
<td>Changes the frequency response of the output signal</td>
</tr>
<tr>
<td>Auto Lock</td>
<td>Activates/deactivates the automatic lock mode</td>
</tr>
<tr>
<td>Advanced</td>
<td>Calls up the extended menu “Advanced Menu”</td>
</tr>
<tr>
<td>Exit</td>
<td>Exits the operating menu and returns to the current standard display</td>
</tr>
</tbody>
</table>

**“Easy Setup”**

| Reset List               | Releases all locked frequency presets and selects an unused frequency preset |
| Current List             | Selects an unused frequency preset |
| Scan New List            | Scans for unused receiving frequencies (frequency preset scan) |
| Exit                     | Exits the submenu “Easy Setup” and returns to the main menu |

**Extended menu “Advanced Menu”**

| Tune                     | Sets the receiving frequencies for the frequency bank “U” |
|                         | Special function: Sets a channel and a receiving frequency for the frequency bank “U”: Select this menu item and call it up by pressing the SET button until the channel selection appears. |
| Guitar Tuner            | Selects the mode of the guitar tuner function |
| Pilot Tone              | Activates/deactivates the pilot tone evaluation |
| LCD Contrast            | Adjusts the contrast of the display panel |
| Reset                   | Resets the receiver |
| Software Revision        | Displays the current software revision |
| Exit                    | Exits the extended menu “Advanced Menu” and returns to the main menu |

**SK 100 and SKM 100**

**SK 100**

- **Main menu “Menu”**
  - Sensitivity
  - Frequency Preset
  - Name
  - Auto Lock
  - Advanced
  - Exit

- **Extended menu “Advanced Menu”**
  - Tune
  - Mute Mode
  - Cable Emulation
  - Pilot Tone
  - LCD Contrast
  - Reset
  - Software Revision
  - Exit

**SKM 100**

- **Main menu “Menu”**
  - Sensitivity
  - Frequency Preset
  - Name
  - Auto Lock
  - Advanced
  - Exit

- **Extended menu “Advanced Menu”**
  - Tune
  - Pilot Tone
  - LCD Contrast
  - Reset
  - Software Revision
  - Exit
<table>
<thead>
<tr>
<th><strong>Display</strong></th>
<th><strong>Function of the menu item</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main menu</strong></td>
<td></td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Adjusts the sensitivity “AF”</td>
</tr>
<tr>
<td>Frequency Preset*</td>
<td>Changes the frequency bank and the channel</td>
</tr>
<tr>
<td>Name*</td>
<td>Enters a freely selectable name</td>
</tr>
<tr>
<td>Auto Lock</td>
<td>Activates/deactivates the automatic lock mode</td>
</tr>
<tr>
<td>Advanced</td>
<td>Calls up the extended menu “Advanced Menu”</td>
</tr>
<tr>
<td>Exit</td>
<td>Exits the operating menu and returns to the current standard display</td>
</tr>
<tr>
<td><strong>Extended menu “Advanced Menu”</strong></td>
<td></td>
</tr>
<tr>
<td>Tune</td>
<td>Sets the transmission frequencies for the frequency bank “U”</td>
</tr>
<tr>
<td></td>
<td>Special function: Sets a channel and a transmission frequency for the frequency bank “U”</td>
</tr>
<tr>
<td></td>
<td>➤ Select this menu item and call it up by pressing the SET button (SK)/the multi-function switch (SKM) until the channel selection appears.</td>
</tr>
<tr>
<td>Mute Mode (SK only)</td>
<td>Sets the mode for the MUTE switch</td>
</tr>
<tr>
<td>Cable Emulation (SK only)</td>
<td>Emulates guitar cable lengths/guitar cable capacities</td>
</tr>
<tr>
<td>Pilot Tone*</td>
<td>Activates/deactivates the pilot tone transmission</td>
</tr>
<tr>
<td>LCD Contrast</td>
<td>Adjusts the contrast of the display panel</td>
</tr>
<tr>
<td>Reset</td>
<td>Resets the bodypack transmitter/radio microphone</td>
</tr>
<tr>
<td>Software Revision</td>
<td>Displays the current software revision</td>
</tr>
<tr>
<td>Exit</td>
<td>Exits the extended menu “Advanced Menu” and returns to the main menu</td>
</tr>
</tbody>
</table>

* For information on the synchronization of transmitters with receivers, refer to 20.

---

**Cleaning the devices**

<table>
<thead>
<tr>
<th><strong>CAUTION!</strong></th>
<th>Liquids can damage the electronics of the devices!</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Exclamation Mark]</td>
<td>Liquids entering the housing of the devices can cause a short-circuit and damage the electronics.</td>
</tr>
<tr>
<td></td>
<td>➤ Keep all liquids away from the devices.</td>
</tr>
</tbody>
</table>

**EM 100**

➤ Before cleaning, disconnect the device from the mains.
➤ Use a slightly damp cloth to clean the receiver from time to time. Do not use any solvents or cleansing agents.

**SK 100**

➤ Use a slightly damp cloth to clean the bodypack transmitter from time to time. Do not use any solvents or cleansing agents.

**SKM 100**

➤ Use a slightly damp cloth to clean the radio microphone from time to time. Do not use any solvents or cleansing agents.
To clean the radio microphone’s sound inlet basket (MMD 835-1, MMD 845-1, MMD 935-1, MMD 945-1, MME 865-1):

- Unscrew the upper sound inlet basket from the microphone head by turning it counterclockwise.

**CAUTION!**

Liquids can damage the microphone head!
Liquids can damage the microphone head.

- Only clean the upper sound inlet basket.

- Remove the foam insert.
- There are two ways to clean the sound inlet basket:
  - Use a slightly damp cloth to clean the upper sound inlet basket from the inside and outside
  - or scrub with a brush and rinse with clear water.
- If necessary, clean the foam insert with a mild detergent or replace the foam insert.
- Dry the upper sound inlet basket.
- Dry the foam insert.
- Reinsert the foam insert.
- Replace the sound inlet basket on the microphone head and screw it tight.

You should also clean the contact rings of the microphone head from time to time:
- Wipe the contact rings of the microphone head with a dry cloth.

For information on cleaning the MMK 965-1 microphone head, refer to its instruction manual.

---

**If a problem occurs ...**

**EM 100**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Possible solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver cannot be operated, “Locked” appears on the display panel</td>
<td>Lock mode is activated</td>
<td>Deactivate the lock mode (see page 21).</td>
</tr>
<tr>
<td>No operation indication</td>
<td>No mains connection</td>
<td>Check the connections of the mains unit.</td>
</tr>
<tr>
<td>No RF signal</td>
<td>Transmitter and receiver are not on the same channel</td>
<td>Set the transmitter and receiver to the same channel. To do so, use the synchronization function (see page 20)</td>
</tr>
<tr>
<td></td>
<td>Transmitter is out of range</td>
<td>Check the squelch threshold setting (see page 25).</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible cause</td>
<td>Possible solution</td>
</tr>
<tr>
<td>---------</td>
<td>---------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>RF signal available, no audio signal, &quot;MUTE&quot; appears on the display panel</td>
<td>Transmitter is muted (&quot;MUTE&quot;) or transmitter doesn’t transmit a pilot tone</td>
<td>Cancels the muting (see page 22). Switch the pilot tone transmission on the transmitter on (see page 27). Switch the pilot tone evaluation on the receiver off (see page 26).</td>
</tr>
<tr>
<td>Audio signal has a high level of background noise</td>
<td>Transmitter sensitivity is adjusted too low/high</td>
<td>Adjust the transmitter sensitivity correctly (&quot;Sensitivity&quot;, see page 27).</td>
</tr>
<tr>
<td>Audio signal is distorted</td>
<td>Transmitter sensitivity is adjusted too high</td>
<td>Adjust the transmitter sensitivity correctly (&quot;Sensitivity&quot;, see page 27). Receiver’s audio output level is adjusted too high</td>
</tr>
<tr>
<td>No access to a certain channel</td>
<td>During scanning, an RF signal has been detected on this channel and the channel has been locked</td>
<td>Set the transmitter operating on this channel to a different channel and redo the frequency preset scan (see page 26). During scanning, a transmitter of your system operating on this channel has not been switched off</td>
</tr>
<tr>
<td>None of the diversity displays I or II appears on the display panel</td>
<td>Receiver’s squelch threshold is adjusted too high</td>
<td>Reduce the squelch threshold (see page 25). Receiver’s RF signal is too weak</td>
</tr>
<tr>
<td>Antennas are not connected correctly</td>
<td>Check the antenna cables or the antennas.</td>
<td></td>
</tr>
<tr>
<td>SK 100 and SKM 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Devices cannot be operated, “Locked” appears on the display panel</td>
<td>Lock mode is activated</td>
<td>Deactivate the lock mode (see page 21).</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 15).</td>
</tr>
</tbody>
</table>
Cleaning the devices

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible cause</th>
<th>Possible solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No RF signal at the receiver</td>
<td>Bodypack transmitter/radio microphone and receiver are not on the same channel</td>
<td>Synchronize the bodypack transmitter/radio microphone with the receiver (see page 20).</td>
</tr>
<tr>
<td>Bodypack transmitter/radio microphone is out of range</td>
<td>Set the bodypack transmitter/radio microphone to the same channel as the receiver.</td>
<td>Check the squelch threshold setting on the receiver. Reduce the distance between bodypack transmitter/radio microphone and receiving antenna.</td>
</tr>
<tr>
<td>RF signal is deactivated (“RF Mute”)</td>
<td>Activate the RF signal (see page 23).</td>
<td></td>
</tr>
<tr>
<td>RF signal available, no audio signal, “MUTE” appears on the display panel of the receiver</td>
<td>Bodypack transmitter/radio microphone is muted (MUTE)</td>
<td>Cancels the muting (see page 22).</td>
</tr>
<tr>
<td>Receiver’s squelch threshold is adjusted too high</td>
<td>Reduce the squelch threshold setting on the receiver.</td>
<td></td>
</tr>
<tr>
<td>Bodypack transmitter/radio microphone doesn’t transmit a pilot tone</td>
<td>Activate or deactivate the pilot tone transmission (see page 27).</td>
<td></td>
</tr>
<tr>
<td>Audio signal has a high level of background noise or is distorted</td>
<td>Bodypack transmitter’s/radio microphone’s sensitivity is adjusted too low/too high</td>
<td>Adjust the input sensitivity (see page 27).</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”.
## Specifications

### EM 100

#### RF characteristics
- **Modulation**: wideband FM
- **Receiving frequency ranges**:
  - 516–558, 566–608, 626–668, 734–776, 780–822, 823–865 MHz (A to E, G, see page 4)
  - 1,680 frequencies, tuneable in steps of 25 kHz
  - 20 frequency banks, each with up to 12 factory-preset channels, intermodulation-free
  - 1 frequency bank with up to 12 user programmable channels
- **Switching bandwidth**: 42 MHz
- **Nominal/peak deviation**: ±24 kHz / ±48 kHz
- **Receiver principle**: true diversity
- **Sensitivity (with HDX, peak deviation)**:
  - < 2.5 µV for 52 dBA rms S/N
- **Adjacent channel rejection**: typ. ≥ 65 dB
- **Intermodulation attenuation**: typ. ≥ 65 dB
- **Blocking**: ≥ 70 dB
- **Squelch**:
  - Off, Low: 5 dBµV, Middle: 15 dBµV, High: 25 dBµV can be switched off
  - 2 BNC sockets

#### AF characteristics
- **Compander system**: Sennheiser HDX
- **EQ presets (switchable, affect the line and monitor outputs)**:
  - Preset 1: “Flat”
  - Preset 2: “Low Cut”
  - Preset 3: “Low Cut/High Boost”
  - Preset 3: “High Boost”
- **S/N ratio (1 mV, peak deviation)**: ≥ 110 dBA
- **THD**: ≤ 0.9%
- **AF output voltage** (at peak deviation, 1 kHz AF):
  - ¼” (6.3 mm) jack socket (unbalanced): +12 dBu
  - XLR socket (balanced): +18 dBu
- **Adjustment range of audio output level**: 48 dB (in steps of 3 dB)
  - +6 dB gain reserve

#### Overall device
- **Temperature range**: –10°C to +55°C
- **Power supply**: 12 V
  - 300 mA
- **Current consumption**: approx. 190 x 212 x 43 mm
  - Weight: approx. 980 g
Specifications

In compliance with (EM)

Europe:

Approved by

Canada:

Mains unit*

Input voltage

Power/current consumption

Output voltage

Secondary output current

Temperature range

* depending on country variant

In compliance with

Europe:

USA:

Canada:

Certified by cCSAus KL, 60065, CSA.

For accessories and information on connector assignment, visit the ew G3 product page at www.sennheiser.com.

SK 100 and SKM 100

RF characteristics

Modulation

Frequency ranges

Transmission frequencies

Switching bandwidth

Nominal/peak deviation

Frequency stability

RF output power at 50 Ω

Pilot tone squelch

CE EMC EN 301489-1/-9
Radio EN 300422-1/-2
Safety EN 60065

FCC 47 CFR 15 subpart B

Industry Canada RSS 210, IC: 2099A-G3EM100

Mains unit*

Input voltage

110 V~ or 230 V~, 50/60 Hz

100 to 240 V~, 50/60 Hz

9 VA max. 120 mA

13 V ===

12 V ===

300 mA 400 mA

−10 °C to +40 °C

−10 °C to +40 °C

CE EMC NT 2-3: EN 55022, EN 55024,
EN 55014-1/-2
NT 2-1: EN 55013, EN 55020,
EN 55014-1/-2

Safety EN 60065

FCC 47 CFR 15 subpart B

ICES 003

For accessories and information on connector assignment, visit the ew G3 product page at www.sennheiser.com.
### AF characteristics

**Compander system**

**AF frequency response**

- **SK**
- **SKM**

**S/N ratio (1 mV, peak deviation)**

**THD**

**Max. input voltage (SK) microphone/line**

**Input impedance (SK) microphone/line**

**Input capacitance (SK)**

**Adjustment range of input sensitivity**

### Overall device

**Temperature range**

**Power supply**

- **Nominal voltage**
- **Current consumption:**
  - at nominal voltage
  - with switched-off transmitter

**Operating time**

**Dimensions**

**Weight (incl. batteries)**

### In compliance with (SK and SKM)

**Europe:**

---

### Approved by (SK)

**Canada:**

**USA:**

---

### Approved by (SKM)

**Canada:**

**USA:**

---

### Sennheiser HDX

- **microphone:** 80–18,000 Hz
- **line:** 25–18,000 Hz
- **80–18,000 Hz**
  - $\geq 110$ dBA
  - $\leq 0.9\%$
  - 3 V<sub>rms</sub>
  - 40 kΩ unbalanced/1 MΩ switchable

- **SK:** 60 dB, adjustable in steps of 3 dB
- **SKM:** 48 dB, adjustable in steps of 6 dB

**Temperature range**

**Power supply**

- **Nominal voltage**
- **Current consumption:**
  - typ. 180 mA (30 mW)
  - $\leq 25\mu$A

- **Operating time** typ. 8 hrs

**Dimensions**

- **SK:** approx. 82 x 64 x 24 mm
- **SKM:** approx. $\varnothing$ 50 x 265 mm

- **Weight (incl. batteries)**
  - **SK:** approx. 160 g
  - **SKM:** approx. 450 g

---

**EMC** EN 301489-1/-9

**Radio** EN 300422-1/-2

**Safety** EN 60065, EN 62311 (SAR)

---

**Industry Canada RSS 210, IC: 2099A-G3SK**

- limited to 806 MHz

**FCC-Part 74, FCC-ID: DMO G3SK**

- limited to 698 MHz

---

**Industry Canada RSS 210, IC: 2099A-G3SKMEM**

- limited to 806 MHz

**FCC-Part 74, FCC-ID: DMO G3SKMEM**

- limited to 698 MHz
Specifications

Microphones (SK 100)

<table>
<thead>
<tr>
<th></th>
<th>ME 2</th>
<th>ME 3</th>
<th>ME 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microphone type</td>
<td>condenser</td>
<td>condenser</td>
<td>condenser</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>20 mV/Pa</td>
<td>1.6 mV/Pa</td>
<td>40 mV/Pa</td>
</tr>
<tr>
<td>Pick-up pattern</td>
<td>omni-directional</td>
<td>cardioid</td>
<td>cardioid</td>
</tr>
<tr>
<td>Max. SPL</td>
<td>130 dB SPL</td>
<td>150 dB SPL</td>
<td>120 dB SPL</td>
</tr>
</tbody>
</table>

Microphone heads (SKM 100)

<table>
<thead>
<tr>
<th></th>
<th>MMD 835-1</th>
<th>MMD 845-1</th>
<th>MME 865-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio microphone type</td>
<td>dynamic</td>
<td>dynamic</td>
<td>condenser</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>2.1 mV/Pa</td>
<td>1.6 mV/Pa</td>
<td>1.6 mV/Pa</td>
</tr>
<tr>
<td>Pick-up pattern</td>
<td>cardioid</td>
<td>super-cardioid</td>
<td>super-cardioid</td>
</tr>
<tr>
<td>Max. SPL</td>
<td>154 dB SPL</td>
<td>154 dB SPL</td>
<td>152 dB SPL</td>
</tr>
</tbody>
</table>

Polar diagrams and frequency response curves of the microphone heads (SKM 100)

Polar diagram MMD 835-1

Frequency response curve MMD 835-1

Polar diagram MMD 845-1

Frequency response curve MMD 845-1
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/EU)
- WEEE Directive (2002/96/EU)

Please dispose of these products at the end of their operational lifetime by taking it to your local collection point or recycling center for such equipment.

- Battery Directive (2006/66/EU)

The supplied batteries or rechargeable batteries of the transmitters 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

- EM 100: CEE0682
- SK / SKM 100: CEE 0682Ω

The declarations are available at www.sennheiser.com. Before putting the devices into operation, please observe the respective country-specific regulations.
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!