



evolution wireless G4 100 P series

Instruction Manual

Sennheiser electronic GmbH & Co. KG

SENNHEISER

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ew 100 P G4 - v1.1



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PRODUCT INFORMATION

Overview



You can find information about the individual products in the ew 100 P G4 series under “ew 100 P G4 series products”.

For information about the available accessories, see “Accessories”.

You can find information about the ew 100 P G4 series frequency bank system under “The frequency bank system”.



ew 100 P G4 series products

Click the name of the particular product to learn more about it.



You can also find more information here:

- A variety of frequency variants are available from the individual products. You can find more information under “Product variants”.
- You can find technical specifications about the individual products under “Specifications”.
- You can find information about installing the products under “Installing ew 100 P G4 series devices”.
- You can find information about operating the products under “Using ew 100 P G4 series devices”.



EK 100 G4 diversity receiver



You can find more detailed information about the EK 100 G4 in the following sections:

- Installation and Startup: "Installing the EK 100 G4"
- Operation: "Using the EK 100 G4"
- Technical Data: "EK 100 G4"



SKM 100 G4 handheld transmitter



SKM 100 G4 variant:



SKM 100 G4-S variant:



The SKM 100 G4 handheld transmitter is also available in the SKM 100 G4-S variant with an integrated mute switch.

You can find more detailed information about the SKM 100 G4 in the following sections:

- Installation and Startup: “Installing the SKM 100 G4”
- Operation: “Using the SKM 100 G4”
- Technical Data: “SKM 100 G4”



SK 100 G4 bodypack transmitter



You can find more detailed information about the SK 100 G4 in the following sections:

- Installation and Startup: "Installing the SK 100 G4"
- Operation: "Using the SK 100 G4"
- Technical Data: "SK 100 G4"



SKP 100 G4 plug-on transmitter



You can find more detailed information about the SKP 100 G4 in the following sections:

- Installation and Startup: “Installing the SKP 100 G4”
- Operation: “Using the SKP 100 G4”
- Technical Data: “SKP 100 G4”



Accessories

A variety of accessories are available for the ew 100 P G4 series.

Microphones and cables

Microphone modules

We recommend using the following microphone modules with the SKM 100 G4 and SKM 100 G4-S handheld transmitters.

Module	Features	Article no.
MMD 835-1 BK	Dynamic, cardioid, black	502575
MMD 845-1 BK	Dynamic, super-cardioid, black	502576
MME 865-1 BK	Capacitor, super-cardioid, black	502581
MMD 935-1 BK	Dynamic, cardioid, black	502577
MMD 945-1 BK	Dynamic, super-cardioid, black	502579
MMK 965-1 BK	Capacitor, switchable Cardioid/super-cardioid, black	502582
MMK 965-1 NI	Capacitor, switchable Cardioid/super-cardioid, nickel	502584
MMD 42-1	Dynamic, omni-directional, black	506772



You can find more information about the individual microphone modules on their respective product pages at www.sennheiser.com.



Headset and Lavalier microphones

We recommend using the following Lavalier microphones and headset microphones with the SK 100 G4 bodypack transmitter.

Microphone	Features	Article no.
ME 2-II	Lavalier microphone, omni-directional, black	507437
ME 3-II	Headset microphone, cardioid, black	506295
ME 4-N	Lavalier microphone, cardioid, black	005020
MKE 1-ew	Lavalier microphone, omni-directional, black	502876
MKE 1-ew-3	Lavalier microphone, omni-directional, beige	502879
MKE 2-ew Gold	Lavalier microphone, omni-directional, black	009831
MKE 2 ew-3 Gold	Lavalier microphone, omni-directional, beige	009832
MKE 40-ew	Lavalier microphone, cardioid, black	500527
SL Headmic 1 BE	Headband microphone, omni-directional, beige	506272
SL Headmic 1 BK	Headband microphone, omni-directional, black	506271
SL Headmic 1 SB	Headband microphone, omni-directional, silver	506904

 You can find more information about the individual microphones on their respective product pages at www.sennheiser.com.

Line connecting cable

The following cables can be used to connect cameras to the EK 100 G4 diversity receiver:

- **CL 1**
3.5 mm jack plug on lockable 3.5 mm jack plugs
Article no. 005022
- **CL 100**
XLR-3 on a 3.5 mm jack plug
Article no. 087046



Rechargeable battery and charger

BA 2015 rechargeable battery

The BA 2015 rechargeable battery is designed for use with evolution wireless G4 series handheld transmitters, bodypack transmitters and bodypack receivers.

Article no. 009950



L 2015 charger

The BA 2015 rechargeable battery can be charged in the L 2015 charger on its own or inside of the bodypack transmitter/bodypack receiver.

Article no. 009828





Accessories for camera mounting

CA 2 camera adapter

Camera adapter with hot shoe for portable bodypack transmitters/receivers from the ew G1, G2, G3 and G4 series.

Article no. 009986





Additional accessories

Color labeling set

- **KEN 2**, color labeling set for SKM handheld transmitters
Article no. 530195



Microphone clamp

- **MZQ 1**, microphone clamp for SKM handheld transmitters
Article no. 076670





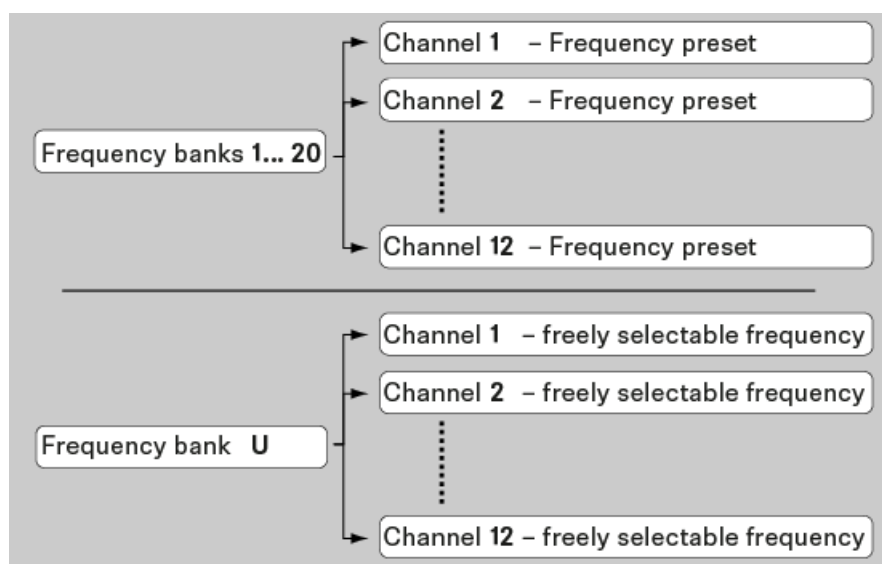
The frequency bank system

There are different frequency ranges in the UHF band available for transmission.

The following frequency ranges are available for the **ew 100 G4** series:

- **A1 range:** 470 – 516 MHz
- **A range:** 516 – 558 MHz
- **AS range:** 520 – 558 MHz
- **G range:** 566 – 608 MHz
- **GB range:** 606 – 648 MHz
- **B range:** 626 – 668 MHz
- **C range:** 734 – 776 MHz
- **D range:** 780 – 822 MHz
- **JB range:** 806 – 810 MHz
- **E range:** 823 – 865 MHz
- **K+ range:** 925 – 937.5 MHz

Every frequency range has **21 frequency banks** with up to 12 channels:



You can find information about the frequency presets in the frequency tables of the respective frequency ranges under “Frequency tables”.



INSTALLATION

Installing ew 100 P G4 series devices

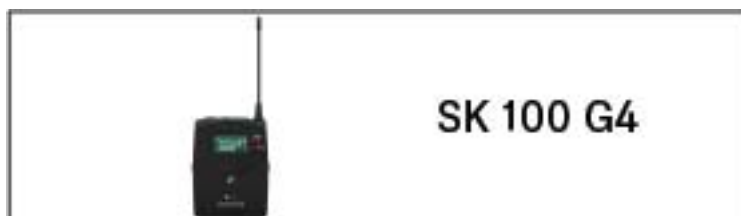
You can find information about installing and connecting ew 100 P G4 series devices in the following sections.



- EK 100 G4 diversity receiver >> “Installing the EK 100 G4”



- SKM 100 G4 handheld transmitter >> “Installing the SKM 100 G4”



- **SK 100 G4** bodypack transmitter >> “Installing the SK 100 G4”



- SKP 100 G4 plug-on transmitter >> “Installing the SKP 100 G4”



You can find information about **operating** the products under “Using ew 100 P G4 series devices”.



Installing the EK 100 G4

These sections contain detailed information about installing the EK 100 G4.

You can find information about operating the EK 100 G4 under “Using the EK 100 G4”.

Inserting and removing the batteries/rechargeable batteries

You can operate the diversity receiver either with batteries (AA, 1.5 V) or with the rechargeable Sennheiser BA 2015 battery.

- Press the two catches and open the battery compartment cover.
- Insert the batteries or the rechargeable battery as shown below. Please observe correct polarity when inserting the batteries.



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

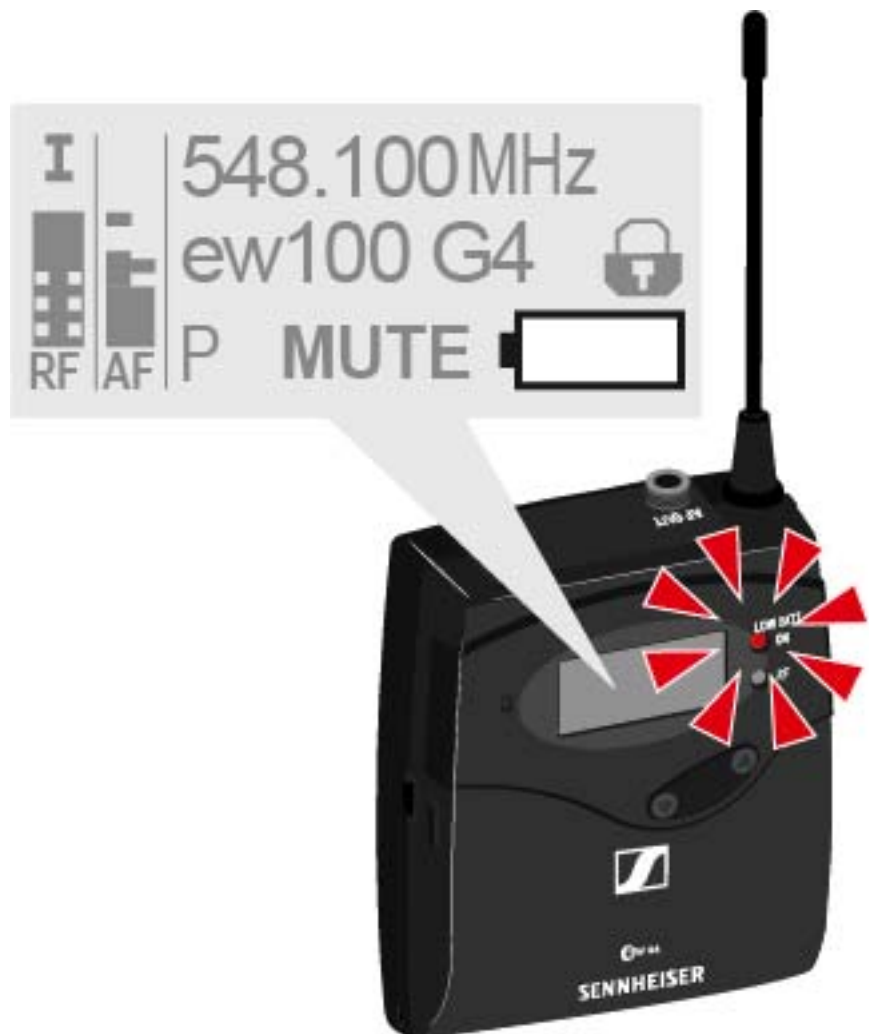


Battery status

Charge status of the batteries:

	100 %	> 8 h
	70 %	4 - 6 h
	30 %	2 - 3 h
LOW BATT ...		

Charge status is critical (LOW BATT):



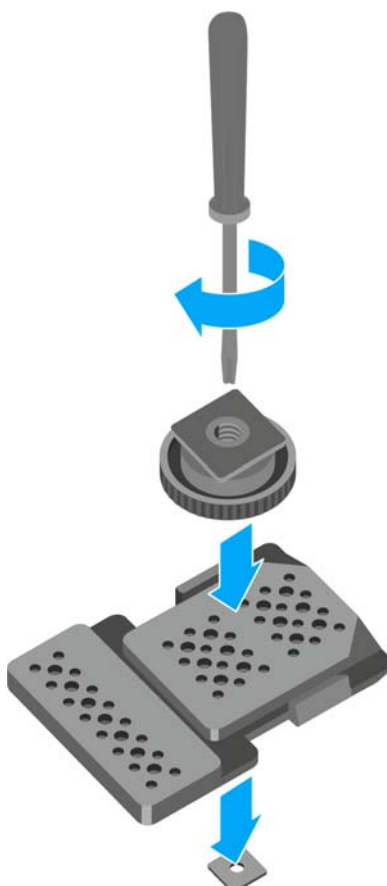


Attaching the diversity receiver to a camera

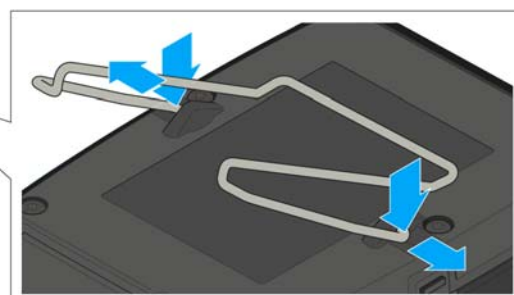
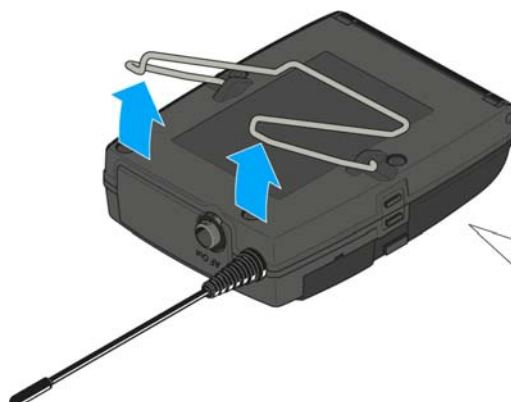
You can attach the diversity receiver on the hot shoe of the camera with the included CA 2 camera kit.

To attach the EK 100 G4 diversity receiver to a camera:

- Determine where on the perforated plate you need to attach the hot shoe adapter so that the diversity receiver can be optimally attached to the camera.
- Place a square nut under the perforated plate at this position.
- Affix the hot shoe adapter to the perforated plate with the square nut.

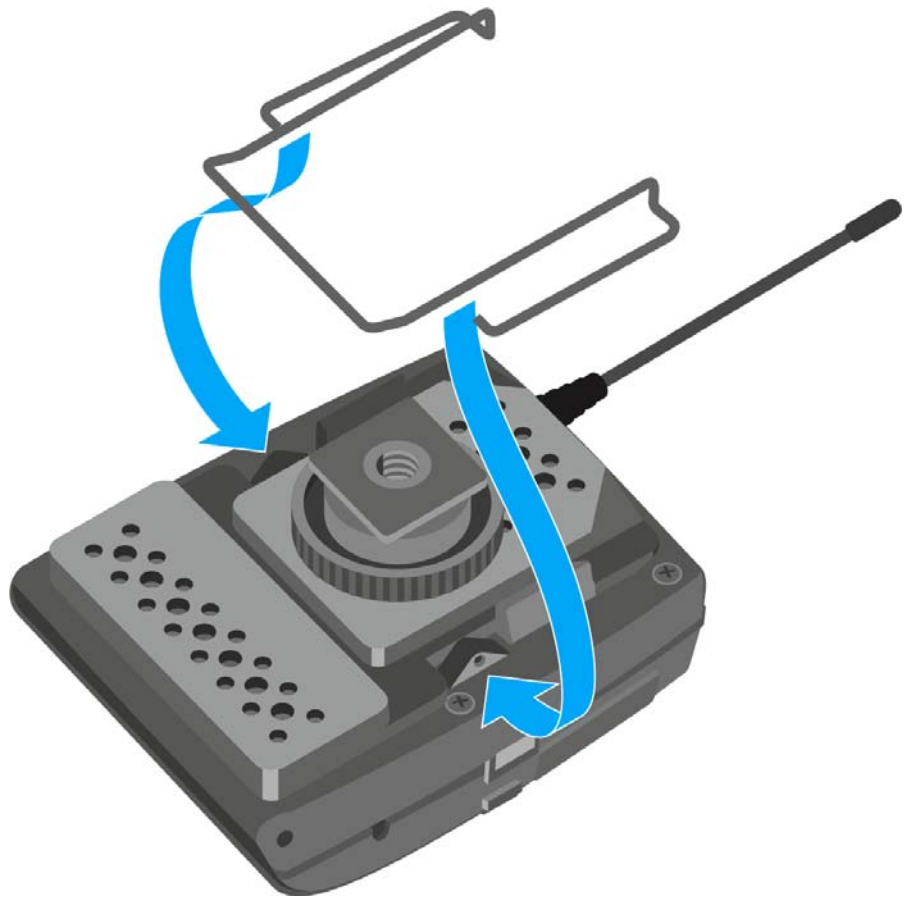


- Lift the belt clip.
- Press one side of the clip downward on the fixing hole and pull it out of the housing.
- Do the same thing on the other side.



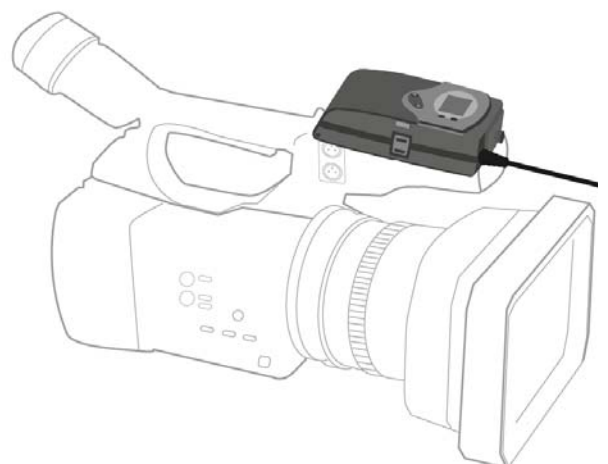


- ▷ Place the perforated plate on the rear side of the diversity receiver.
- ▷ Reattach the clip.



- ▷ Slide the receiver onto a camera.

◀OR▶





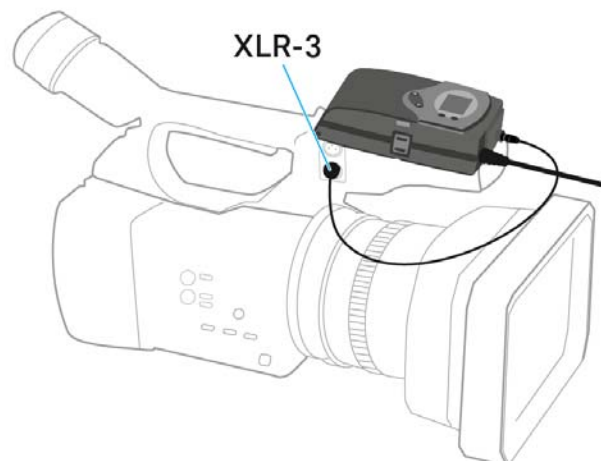
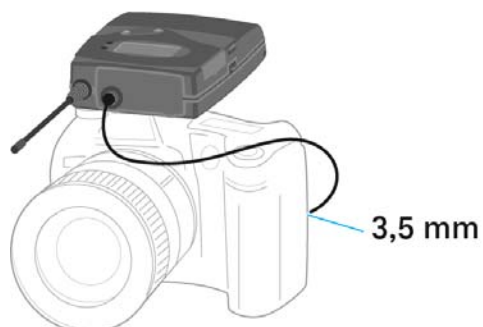
Connecting the diversity receiver to a camera

To connect the diversity receiver to a camera:

- Attach the line input of the camera to the jack socket of the receiver using one of the enclosed line connecting cables.



◀ OR ▶



- Adjust the level of the **AF Out** audio output in the operating menu of the diversity receiver based on the input level of the camera (see “AF Out menu item”).

i The shielding of the line cable acts as an antenna for the second diversity branch. For details on the pin assignment, see “Pin assignment”.



Installing the SKM 100 G4

These sections contain detailed information about installing and starting up the SKM 100 G4.

You can find information about operating the SKM 100 G4 under “Using the SKM 100 G4”.

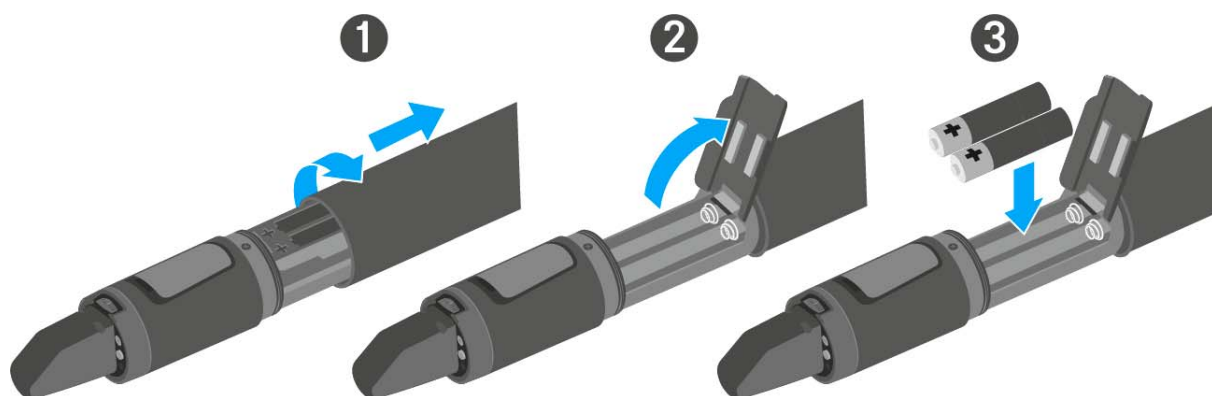
Inserting and removing the batteries/rechargeable batteries

You can operate the wireless microphone either with batteries (AA, 1.5 V) or with the rechargeable Sennheiser BA 2015 battery.

- ▷ Screw the rear part of the wireless microphone in the direction of the arrow (counter-clockwise) off of the handle of the wireless microphone.

i When you remove the wireless microphone during operation, mute is automatically activated. **MUTE** appears in the display panel. When you screw the microphone back together, mute is deactivated.

- ▷ Pull the rear part of the wireless microphone all the way out.
- ▷ Open the cover of the battery compartment.
- ▷ Place the batteries or the BA 2015 rechargeable battery in the battery compartment as shown on the cover. Please observe correct polarity when inserting the batteries/accupack.



- ▷ Close the cover.
- ▷ Push the battery compartment into the handle of the wireless microphone.
- ▷ Screw the rear part of the wireless microphone back onto the handle.

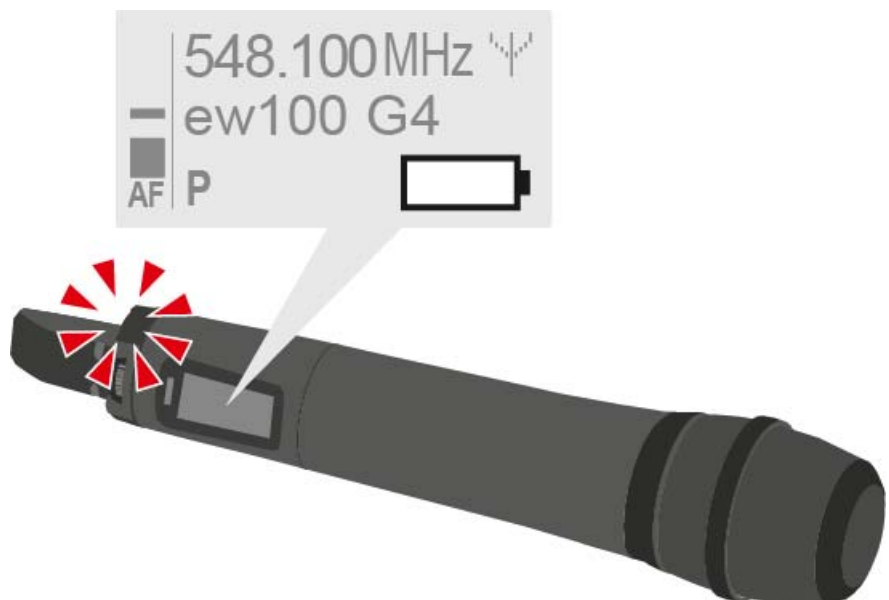


Battery status

Charge status of the batteries:

	100 %	> 8 h
	70 %	4 - 6 h
	30 %	2 - 3 h
LOW BATT    ...		

Charge status is critical (LOW BATT):



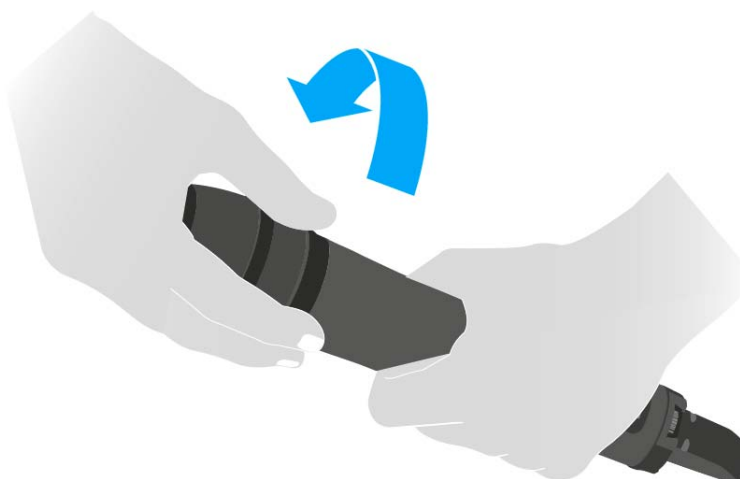


Replacing the microphone module

You can find a list of the recommended microphone modules for the hand-held transmitter under “Microphones and cables”.

To change the microphone module:

- Unscrew the microphone module.
- Screw the desired microphone module on.



i Do not touch the wireless microphone contacts or the microphone module contacts. If you touch the contacts, they may become dirty or bent.

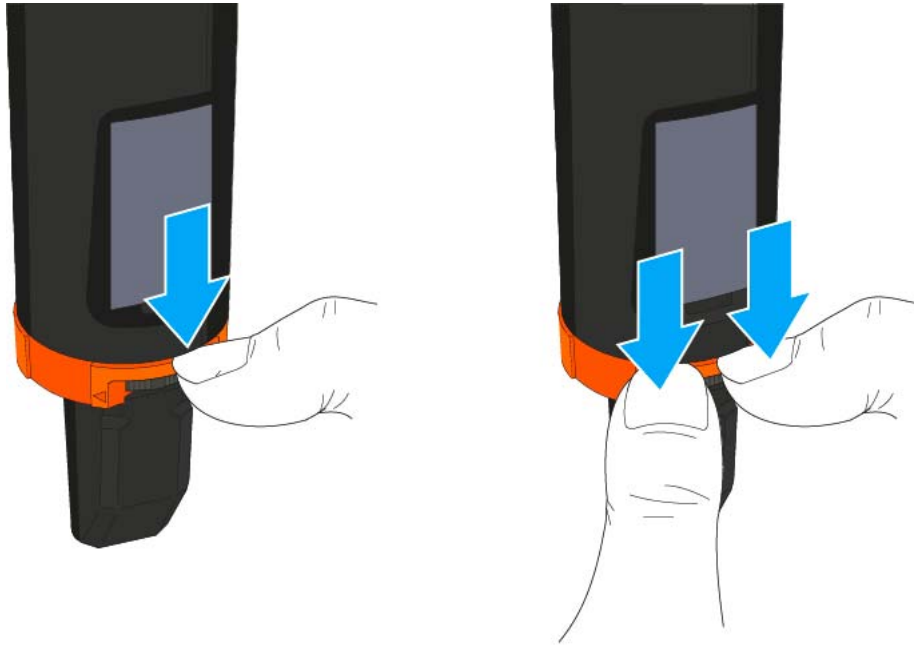
When you unscrew the microphone module during operation, mute is automatically activated. **MUTE** appears in the display panel. When you screw the microphone module back on, mute is deactivated.



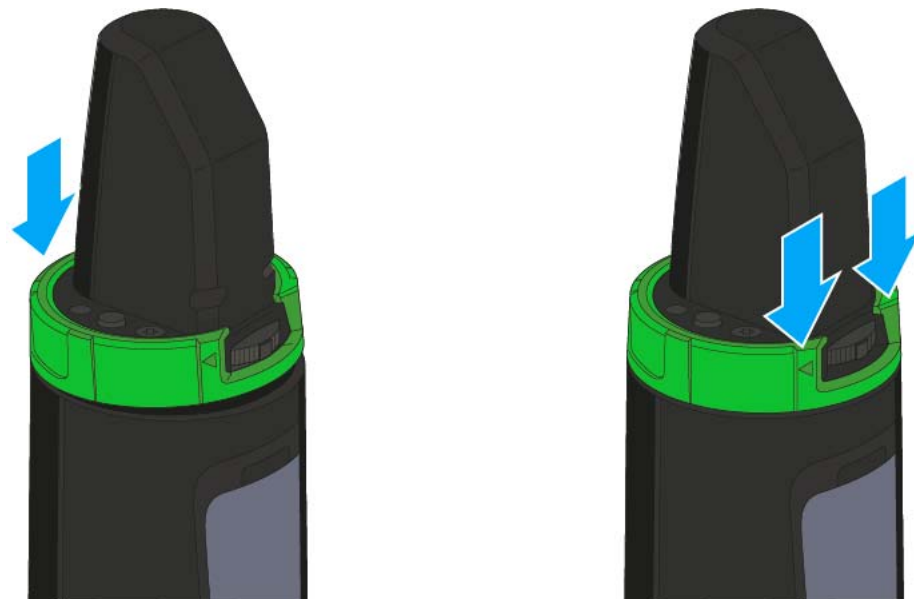
Changing the colored ring

To change the colored ring:

- Pull the colored ring off as shown in the diagram.



- Attached a colored ring in the color you want as shown in the diagram.





Installing the SK 100 G4

These sections contain detailed information about installing and starting up the SK 100 G4.

You can find information about operating the SK 100 G4 under “Using the SK 100 G4”.

Inserting and removing the batteries/rechargeable batteries

You can operate the bodypack transmitter either with batteries (AA, 1.5 V) or with the rechargeable Sennheiser BA 2015 battery.

- Press the two catches and open the battery compartment cover.
- Insert the batteries or the rechargeable battery as shown below. Please observe correct polarity when inserting the batteries.



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

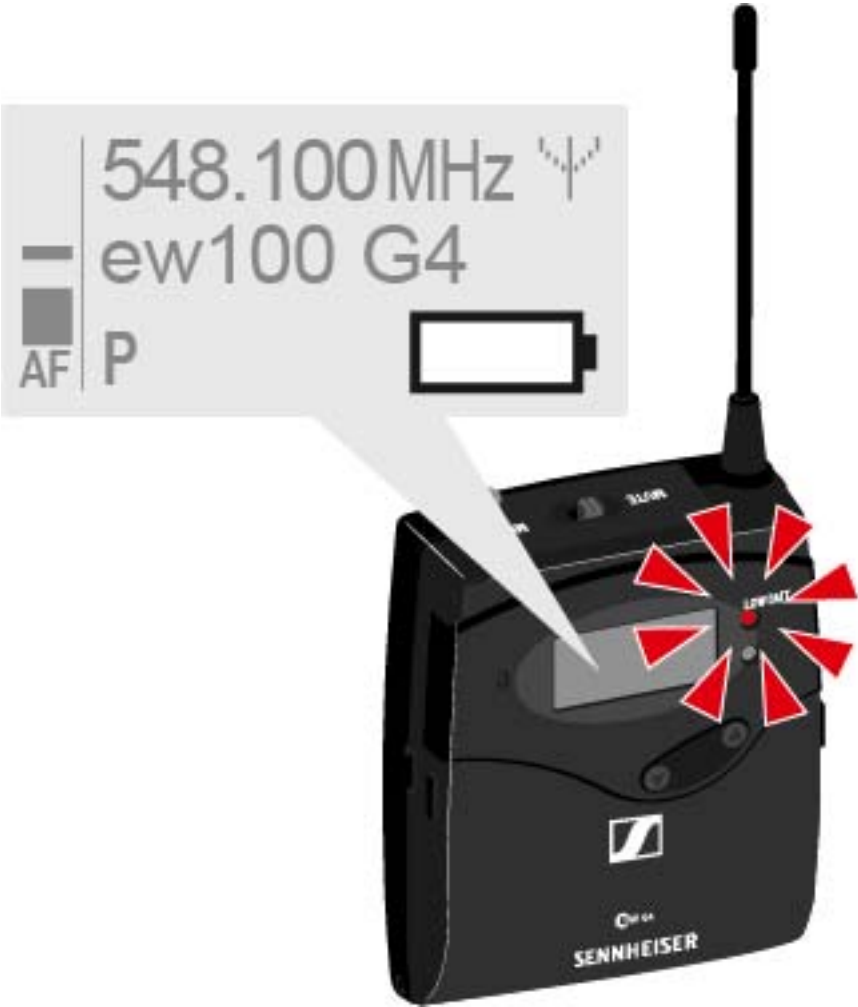


Battery status

Charge status of the batteries:

	100 %	> 8 h
	70 %	4 - 6 h
	30 %	2 - 3 h
LOW BATT		

Charge status is critical (LOW BATT):





Connecting a microphone to the SK 100 G4

You can find a list of recommended Lavalier and headset microphones for the bodypack transmitter under “Microphones and cables”.

To connect a microphone to the bodypack transmitter:

- Insert the cable's 3.5 mm jack plug into the MIC/LINE socket on the bodypack transmitter as shown in the diagram.
- Screw the plug's coupling ring onto the audio socket thread of the bodypack transmitter.





Connecting an instrument or line source to the SK 100 G4

You can connect instruments or audio sources with a line level to the bodypack transmitter.

To do this, you will need the **Ci 1-N** (6.3 mm jack plug on a lockable 3.5 mm jack plug) or **CL 2** (XLR-3F plug on lockable 3.5 mm jack plug) Sennheiser cables.

To connect an instrument or line source to bodypack transmitter:

- Insert the cable's 3.5 mm jack plug into the MIC/LINE socket on the bodypack transmitter as shown in the diagram.
- Screw the plug's coupling ring onto the audio socket thread of the bodypack transmitter.





Attaching the bodypack transmitter to clothing

You can use the belt clip to attach the bodypack transmitter to your waistband or on a guitar strap.

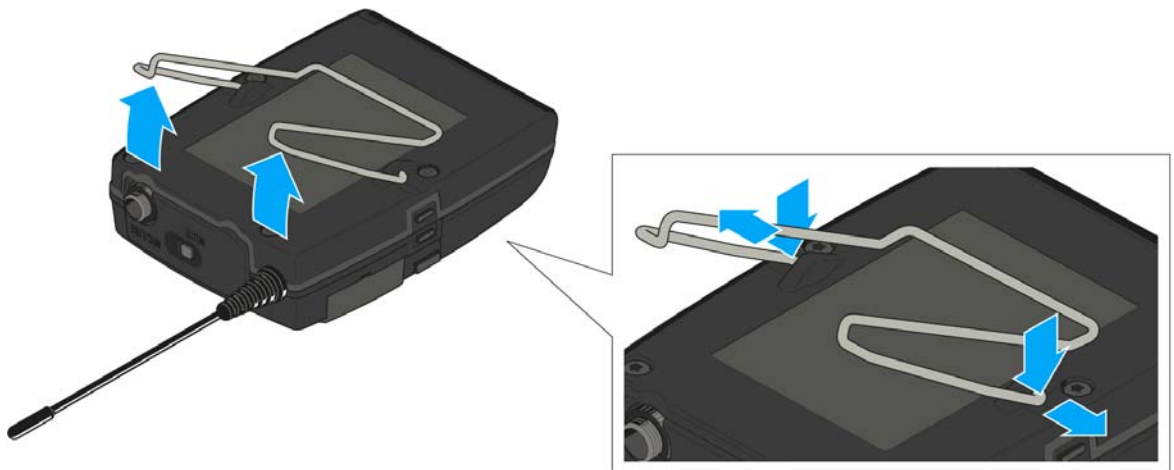
The belt clip is detachable so that you can also attach the bodypack transmitter with the antenna pointing downwards. To do so, withdraw the belt clip from its fixing points and attach it the other way round.

The belt clip is secured so that it cannot slide out of its fixing points accidentally.



To detach the belt clip:

- Lift the belt clip as shown in the diagram.
- Press one side of the clip downward on the fixing hole and pull it out of the transmitter housing.
- Do the same thing on the other side.





Installing the SKP 100 G4

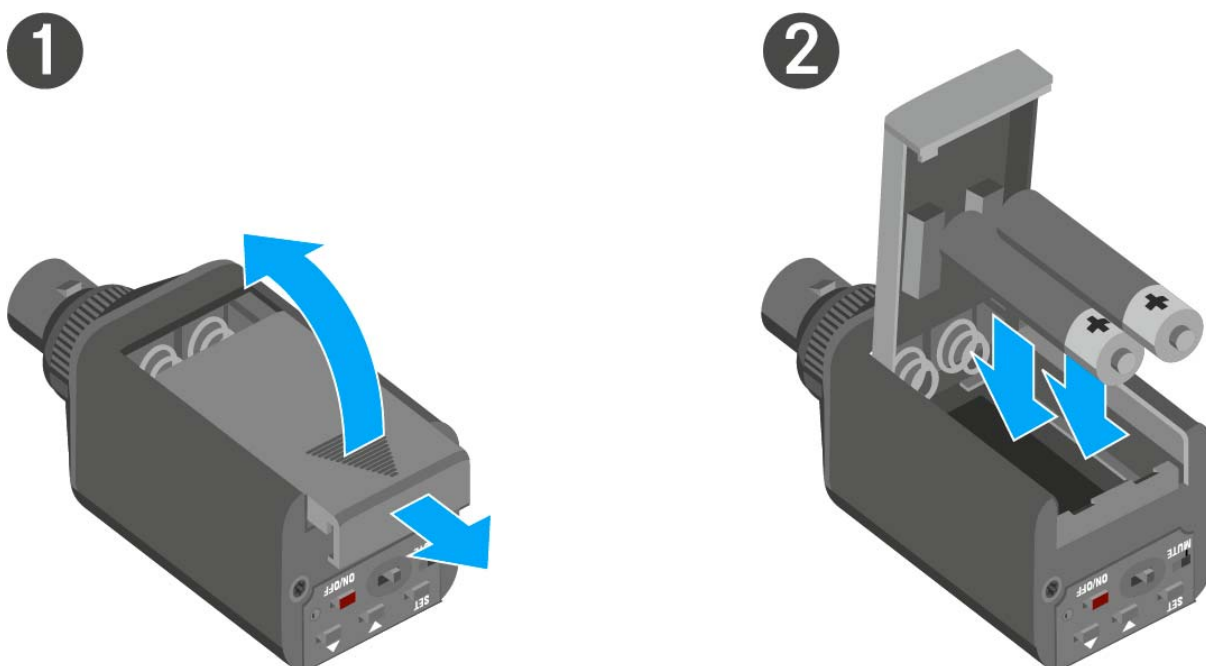
These sections contain detailed information about installing the SKP 100 G4.

You can find information about operating the SKP 100 G4 under “Using the SKP 100 G4”.

Inserting and removing the batteries/rechargeable batteries

You can operate the plug-on transmitter either with batteries (AA, 1.5 V) or with the rechargeable Sennheiser BA 2015 battery.

- ▷ Slide the battery compartment cover in the direction of the embossed arrow and open the cover.
- ▷ Insert the batteries or the accupack as shown below. Please observe correct polarity when inserting the batteries/accupack.



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



Battery status

Charge status of the batteries:

	100 %	> 8 h
	70 %	4 - 6 h
	30 %	2 - 3 h
LOW BATT ...		

Charge status is critical (LOW BATT):

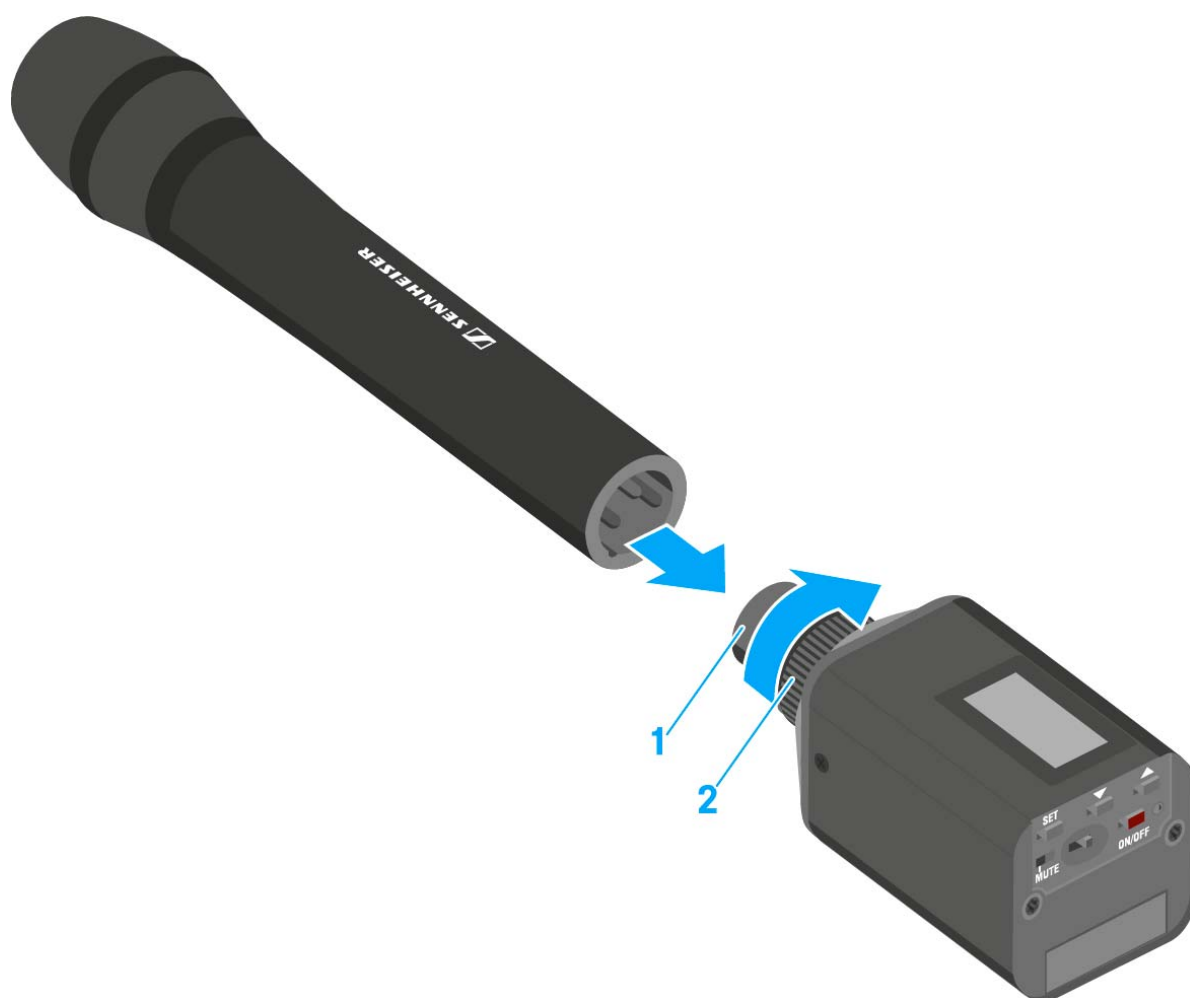




Attaching the plug-on transmitter to the microphone

i Microphones with a metal casing should be used for optimal signal transmission.

- Loosen the locking ring (2) by rotating it in the clockwise direction past the center point.
This unlocks the XLR-3 plug (1) of the plug-on transmitter.
- Connect the plug-on transmitter's XLR-3 plug (1) to the XLR-3 socket of the microphone.
- Tighten the locking ring (2) by rotating it counter-clockwise in the direction of the arrow.





OPERATION

Using ew 100 P G4 series devices

You can find information about using ew 100 P G4 series devices in the following sections.



- **EK 100 G3** diversity receiver >> “Using the EK 100 G4”



- **SKM 100 G3** handheld transmitter >> “Using the SKM 100 G4”



- **SK 100 G3** bodypack transmitter >> “Using the SK 100 G4”



- **SKP 100 G3** plug-on transmitter >> “Using the SKP 100 G4”



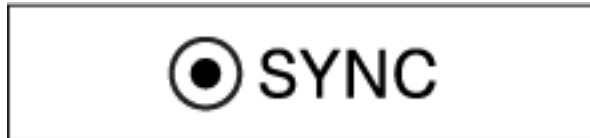
You can find information about **installing** the products under “Installing ew 100 P G4 series devices”.



In the sections below, you can find important **information about specific use cases**.



- Establishing a **radio link** between the transmitter and receiver >> “Establishing a radio link”



- Synchronizing** the receiver **settings** to the transmitter >> “Synchronizing devices”



- Using the **menu** of the diversity **receiver** >> “Displays on the EK 100 G4 display panel”



- Using the **menu** of the **handheld transmitter** >> “Displays on the SKM 100 G4 handheld transmitter display panel”



- Using the **menu** of the **bodypack transmitter** >> “Displays on the SK 100 G4 bodypack transmitter display panel”



- Using the menu of the **plug-on transmitter** >> “Displays on the SKP 100 G4 plug-on transmitter display panel”

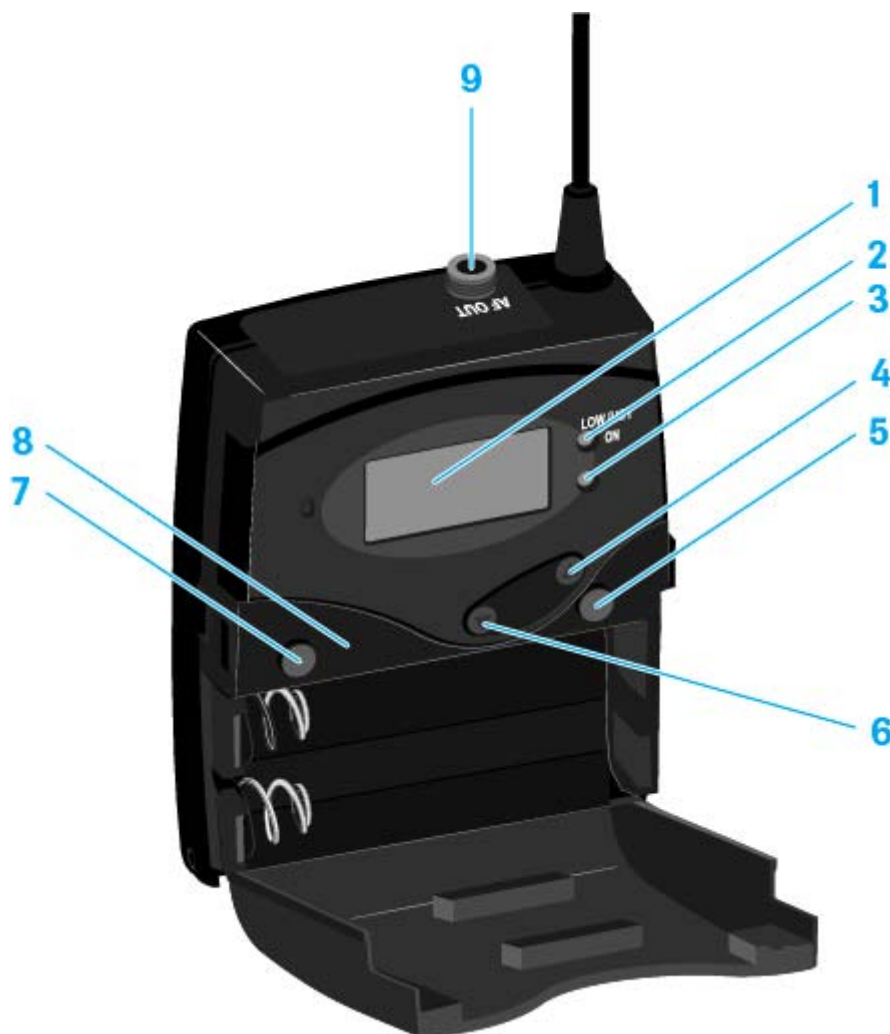


Using the EK 100 G4

These sections contain detailed information about using the EK 100 G4.

You can find information about installing the EK 100 under “Installing the EK 100 G4”.

Operating elements of the EK 100 G4 diversity receiver



- 1** Display panel
 - See “Displays on the EK 100 G4 display panel”
- 2** Operation and battery indicator, red LED
 - illuminated = ON
See “Switching the EK 100 G4 on and off”
 - flashing = LOW BATTERY
See “Inserting and removing the batteries/rechargeable batteries”
- 3** Wireless reception indicator, green LED
 - illuminated = RF



- 4 UP** button
 - See “Buttons for navigating through the menu”
- 5 SET** button
 - See “Buttons for navigating through the menu”
- 6 DOWN** button
 - See “Buttons for navigating through the menu”
- 7 ON/OFF** button with ESC function in the operating menu
 - Switch the transmitter on or off
See “Switching the EK 100 G4 on and off”
 - Escape function in the menu
See “Buttons for navigating through the menu”
- 8 Infra-red** interface
 - See “Synchronizing devices”
- 9 3.5 mm jack socket**
 - lockable
See “Connecting the diversity receiver to a camera”



Switching the EK 100 G4 on and off

- Press the two catches and open the battery compartment cover.

To switch the receiver on:

- Hold down the **ON/OFF** button until the Sennheiser logo appears on the display.



To switch the receiver off:

- Hold down the **ON/OFF** button until the display goes off.



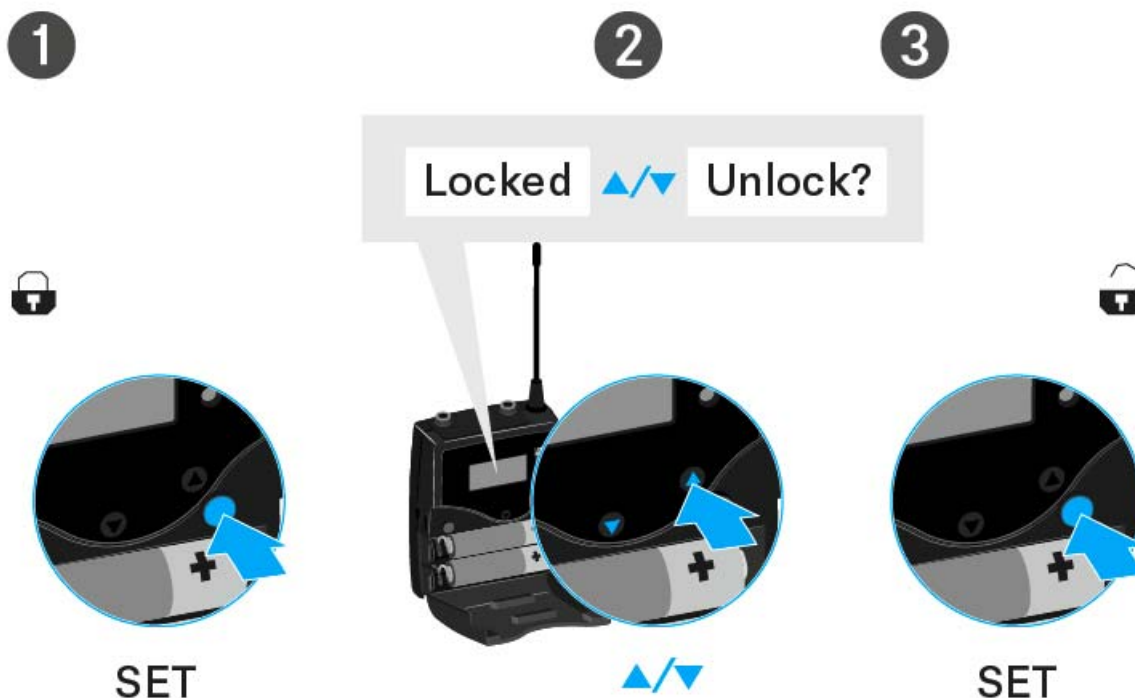
Lock-off function

You can set the automatic lock-off function in the **Auto lock** menu (see “Auto Lock menu item”).

When you have switched on the lock-off function, you will have to turn the transmitter off and on again in order to operate it.

To temporarily deactivate the lock-off function:

- ▷ Press the **SET** button.
Locked appears in the display panel.
- ▷ Press the **UP** or **DOWN** button.
Unlock? appears in the display panel.
- ▷ Press the **SET** button.
Lock-off function is now temporarily deactivated.



When you are in the operating menu

>> Lock-off function is deactivated long enough for you to work in the operating menu.

When one of the standard displays is shown

>> Lock-off function is automatically activated after 10 seconds.

The Lock-off function icon flashes while the lock-off function is being activated again.



Displays on the EK 100 G4 display panel

Status information such as reception quality, battery status, audio level, etc. is displayed on the **home screen** of the display panel. See “Home screen”.

The display panel also displays the **operating menu** which you can use to configure all of the **settings**. See “Setting options in the menu”.

Buttons for navigating through the menu

To navigate through the EK 100 G3 operating menu, you need the following buttons.





ON/OFF



Press the **ON/OFF** button

- ESC function: Cancels the entry and returns to the current standard display
 - Selects a standard display (see “Home screen”)
-

SET



Press the **SET** button

- Changes from the current standard display to the operating menu
 - Calls up a menu item
 - Changes to a submenu
 - Stores the settings and returns to the operating menu
-



Press the **UP** or **DOWN** button

- Changes to the previous or next menu item
 - Changes the setting of a menu item
-



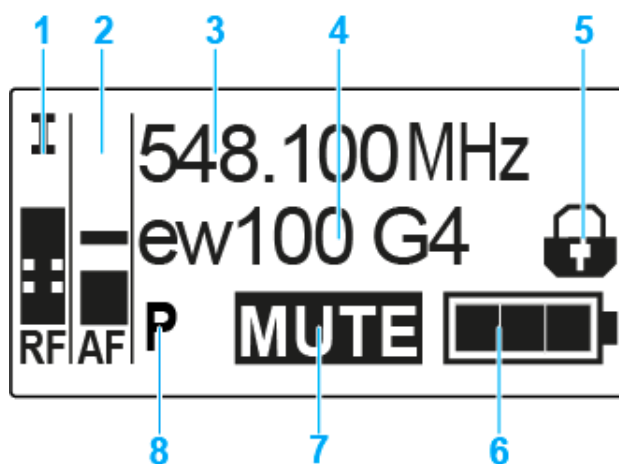
Home screen

After you switch on the receiver, the display panel initially displays the Sennheiser logo. After a short time, the home screen is then displayed.

The home screen has two different standard displays.

- Short-press the **ON/OFF** button to switch between the standard displays.

Frequency/Name standard display



- 1** RF level (radio frequency)
 - RF signal level display
 - including the display of the squelch threshold (see “Squelch menu item”)
- 2** AF audio level (audio frequency)
 - Displays the audio level of the received transmitter
When the display shows full deflection, the audio input level is excessively high.
 - See “AF Out menu item”
- 3** Frequency
 - Current receiving frequency
 - See “Frequency Preset menu item”
- 4** Name
 - Freely selectable name of the receiver
 - See “Name menu item”
- 5** Lock-off function
 - Lock-off function is activated on the receiver
 - See “Lock-off function”
- 6** Battery status of the receiver
 - See “Inserting and removing the batteries/rechargeable batteries”
- 7** **MUTE** muting function
 - No RF signal received

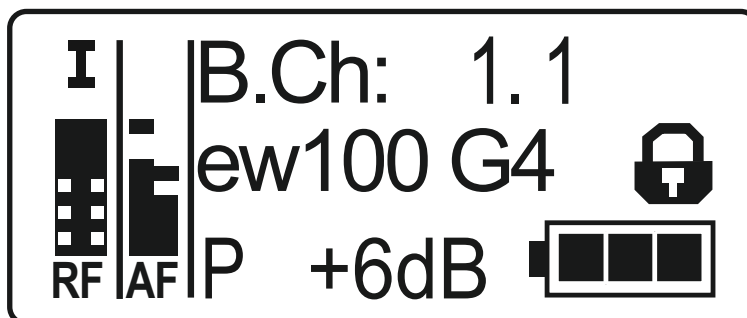


8 P pilot tone

- P = Activated pilot tone evaluation
- No symbol = Evaluation is deactivated
- P is black = Pilot tone is being received on the current frequency
- See “Advanced -> Pilot Tone menu item”

Frequency Bank/Channel/Name [standard display](#)

The Frequency Bank/Channel/Name standard display shows the level of the line output [AF Out](#) instead of the **MUTE** muting function.





Setting options in the menu

In the EK 100 G4 menu, you can configure the following settings.

Synchronizing the transmitter with the diversity receiver

- ▷ See “Sync menu item”
-

Adjusting the squelch threshold

- ▷ See “Squelch menu item”
-

Scanning for unused frequency presets, releases and selects frequency presets

- ▷ See “Easy Setup menu item”
-

Setting the frequency bank and the channel

- ▷ See “Frequency Preset menu item”
-

Entering a freely selectable name

- ▷ See “Name menu item”
-

Adjusting the audio output level

- ▷ See “AF Out menu item”
-

Activate/deactivate the automatic lock-off function

- ▷ See “Auto Lock menu item”
-

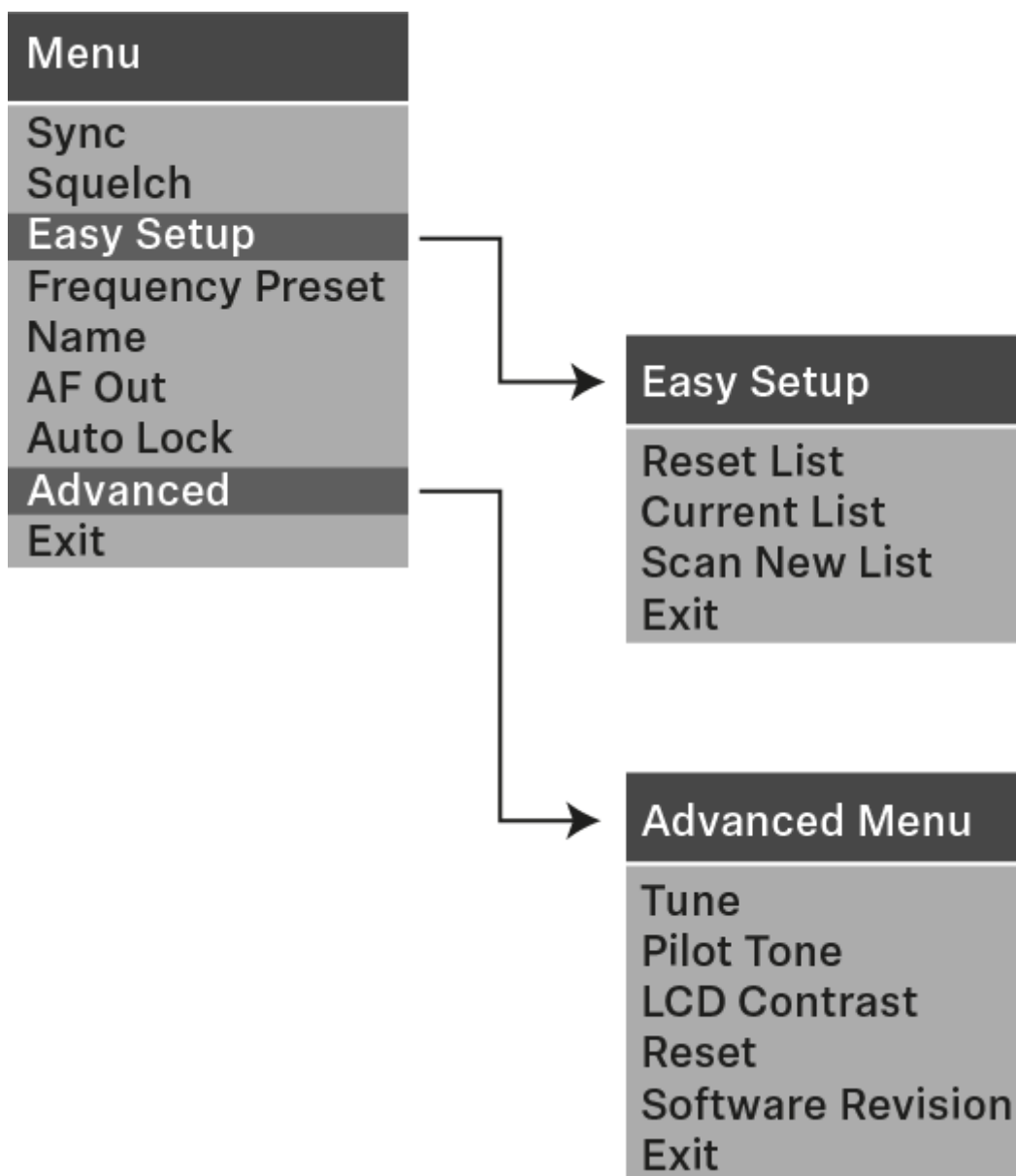
Configuring enhanced settings in the [Advanced Menu](#):

- Adjusting the receiving frequencies for the U frequency bank
 - Activating/deactivating the pilot tone evaluation
 - Adjusting the contrast of the display panel
 - Resetting the receiver
 - Displaying the current software revision
 - ▷ See “Advanced menu item”
-



Menu structure

The figure shows the complete EK 100 G4 menu structure in an overview.





Sync menu item

In the **Sync** menu item you can synchronize ew 100 P G4 series transmitters and receivers.



For more information, see “Synchronizing devices”.



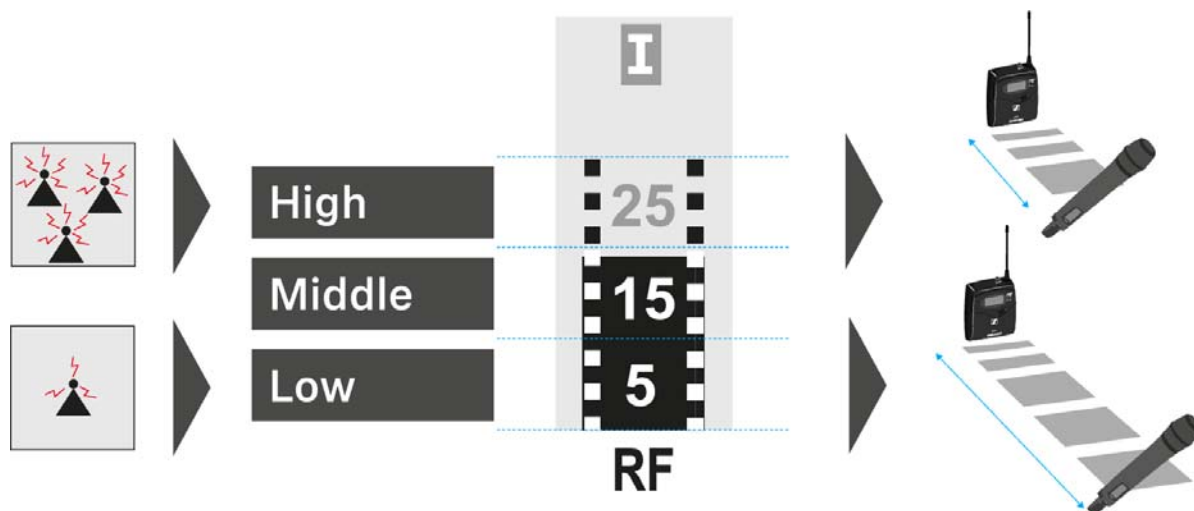
Squelch menu item

You can adjust the squelch threshold in the **Squelch** menu item.

Setting range:

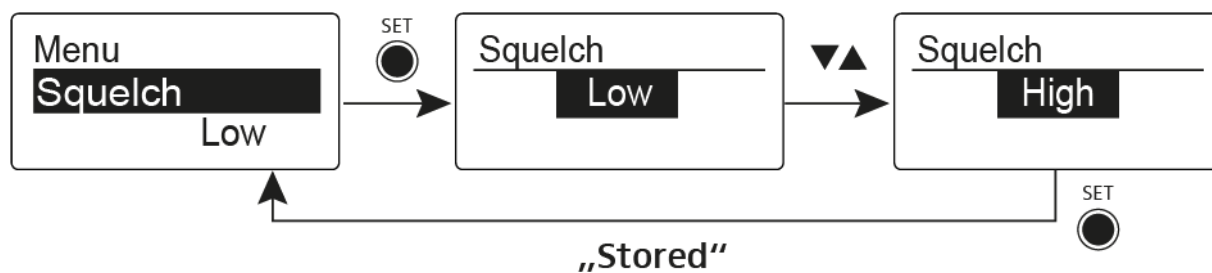
- **Low** >> 5 dB μ V
- **Middle** >> 15 dB μ V
- **High** >> 25 dB μ V

The squelch threshold is displayed on the home screen in the RF signal level area.



To open the **Squelch** menu item:

- On the home screen, press the **SET** button to open the operating menu.
- Press the **UP** or **DOWN** button until the **Squelch** menu item appears in the selection frame.
- Press the **SET** button to open the menu item.
- Adjust the settings as desired.



- Press the **SET** button to save the changes you made to the settings.
or
- Press the **ON/OFF** button to cancel the entry without saving the settings.



CAUTION**Risk of hearing and material damage**

If you set the squelch threshold to a very low value, a very loud hissing noise can occur in the receiver. This hissing noise can be loud enough to cause hearing damage or overload your system's loudspeakers.

- ▷ Before adjusting the squelch threshold, set the volume of the audio output to the minimum.
 - ▷ Never change the squelch threshold during a live transmission.
-

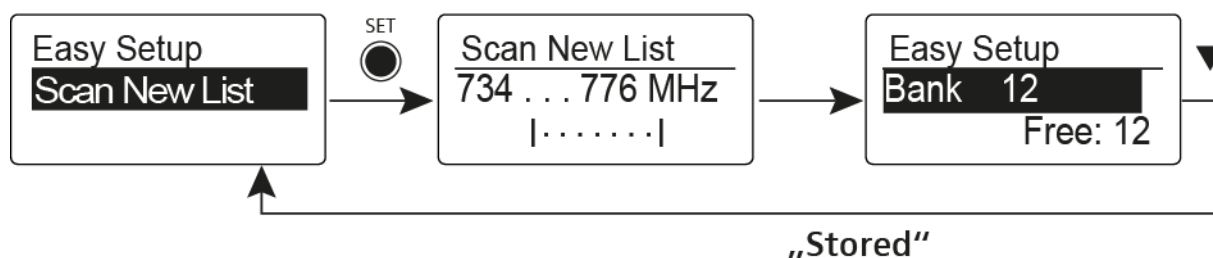
You can scan for unused frequencies using the **Easy Setup** menu item.



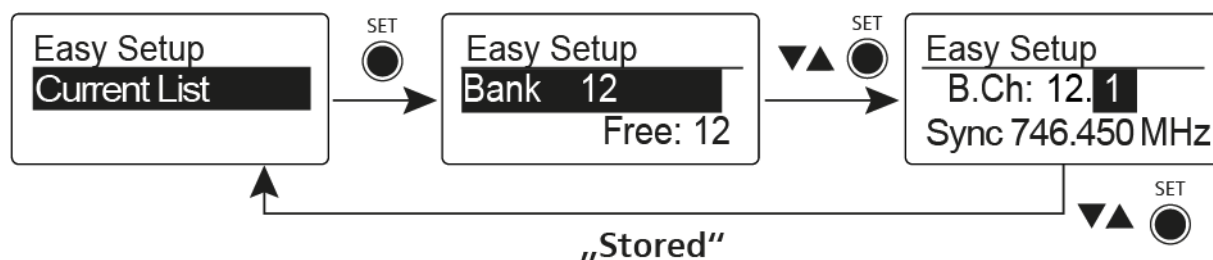
Switch off all transmitters before you perform the scan. If transmitters are still switched on, they are detected as unavailable frequencies and the frequencies that are actually available cannot then be

- ▷ On the home screen, press the **SET** button to open the operating menu.
- ▷ Press the **UP** or **DOWN** button until the **Easy Setup** menu item appears in the selection frame.
- ▷ Press the **SET** button to open the menu item.
- ▷ Adjust the settings as desired.

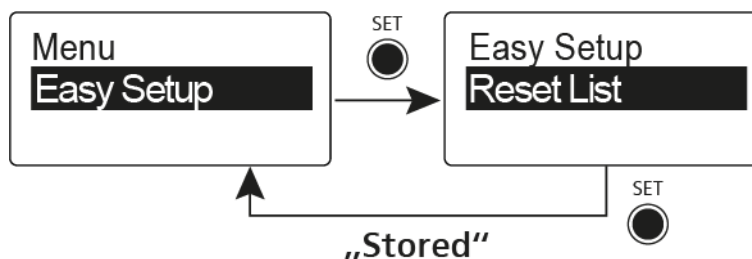
- **Scan New List:** Automatically searches for unused receiving frequencies (frequency preset scan):



- **Current List:** Selects an unused frequency preset:



- **Reset List:** Releases all occupied frequency presets and selects an unused frequency preset:



- Press the **SET** button to save the changes you made to the settings.



or

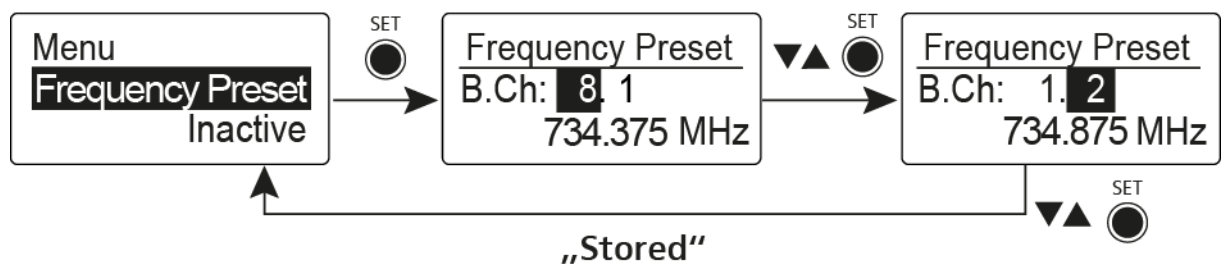
- Press the **ON/OFF** button to cancel the entry without saving the settings.

Frequency Preset menu item

In the **Frequency Preset** menu item, you can adjust the receiving frequency of the receiver by adjusting the frequency bank and the channel.

To open the **Frequency Preset** menu item:

- On the home screen, press the **SET** button to open the operating menu.
- Press the **UP** or **DOWN** button until the **Frequency Preset** menu item appears in the selection frame.
- Press the **SET** button to open the menu item.
- Adjust the settings as desired.



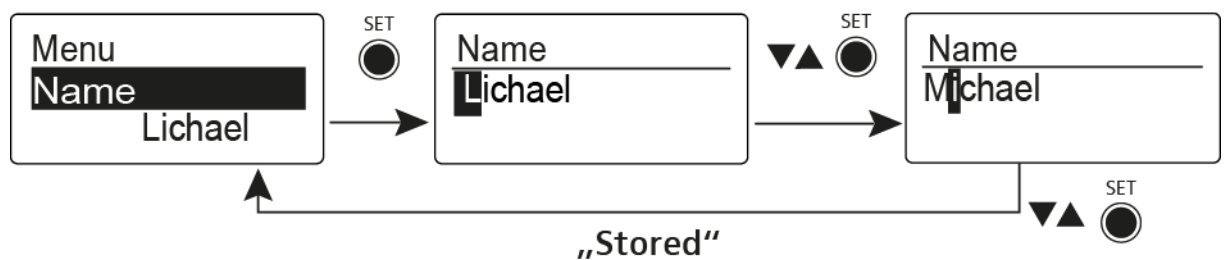
- Press the **SET** button to save the changes you made to the settings.
- or
- Press the **ON/OFF** button to cancel the entry without saving the settings.

Name menu item

In the **Name** menu item you can enter a name for the radio link.

To open the **Name** menu item:

- On the home screen, press the **SET** button to open the operating menu.
- Press the **UP** or **DOWN** button until the **Name** menu item appears in the selection frame.
- Press the **SET** button to open the menu item.
- Adjust the settings as desired.



- Press the **SET** button to save the changes you made to the settings.
- or
- Press the **ON/OFF** button to cancel the entry without saving the settings.



AF Out menu item

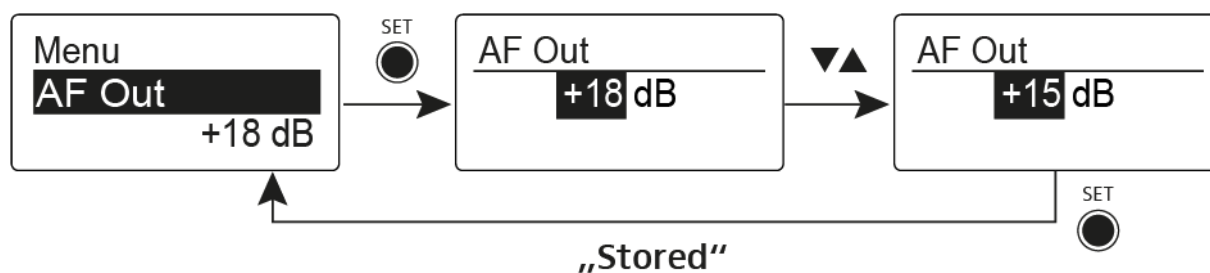
In the **AF Out** menu item you can adjust the level of the line audio output based on the level of the connected camera.

Setting range:

- -30 dB to +12 dB in 6 dB steps

To open the **AF Out** menu item:

- On the home screen, press the **SET** button to open the operating menu.
- Press the **UP** or **DOWN** button until the **AF Out** menu item appears in the selection frame.
- Press the **SET** button to open the menu item.
- Adjust the settings as desired.



- Press the **SET** button to save the changes you made to the settings.
or
- Press the **ON/OFF** button to cancel the entry without saving the settings.



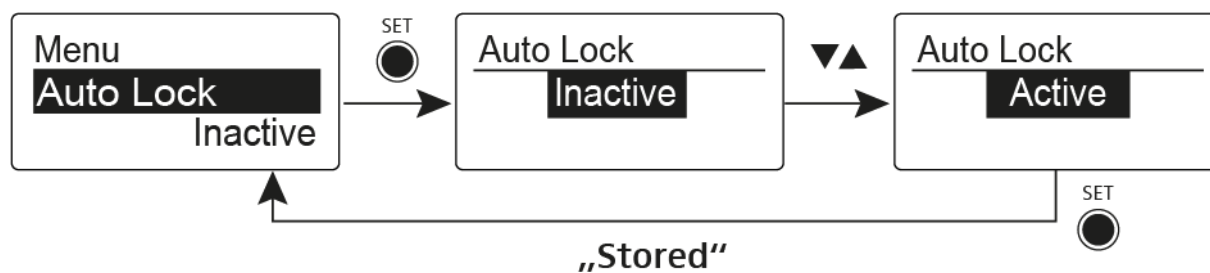
Auto Lock menu item

In the **Auto Lock** menu item you can activate or deactivate the auto lock-off function.

i You can find information about temporarily deactivating the lock-off function during operation under “Lock-off function”.

To open the **Auto Lock** menu item:

- ▷ On the home screen, press the **SET** button to open the operating menu.
- ▷ Press the **UP** or **DOWN** button until the **Auto Lock** menu item appears in the selection frame.
- ▷ Press the **SET** button to open the menu item.
- ▷ Adjust the settings as desired.



- ▷ Press the **SET** button to save the changes you made to the settings.
or
- ▷ Press the **ON/OFF** button to cancel the entry without saving the settings.



Advanced menu item

In the **Advanced** submenu you can configure enhanced settings.

To open the **Advanced** submenu:

- ▷ On the home screen, press the **SET** button to open the operating menu.
- ▷ Press the **UP** or **DOWN** button until the **Advanced** menu item appears in the selection frame.
- ▷ Press the **SET** button to open the menu item.

The following sub-items are available:

Adjusting the receiving frequency for the frequency bank U

- ▷ See “Advanced -> Tune menu item”
-

Activating/deactivating the pilot tone evaluation

- ▷ See “Advanced -> Pilot Tone menu item”
-

Adjusting the contrast of the display panel

- ▷ See “Advanced -> LCD Contrast menu item”
-

Resetting the receiver

- ▷ See “Advanced -> Reset menu item”
-

Displaying the current software revision

- ▷ See “Advanced -> Software Revision menu item”
-

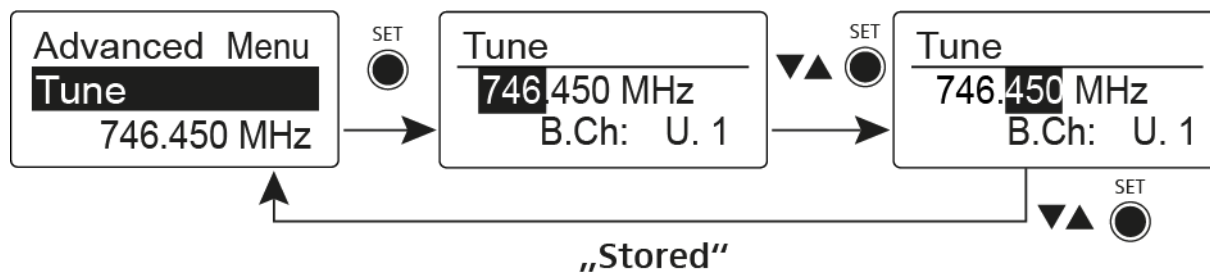


Advanced -> Tune menu item

In the **Tune** menu item of the **Advanced** submenu, you can configure the receiving frequencies for the **U** frequency bank.

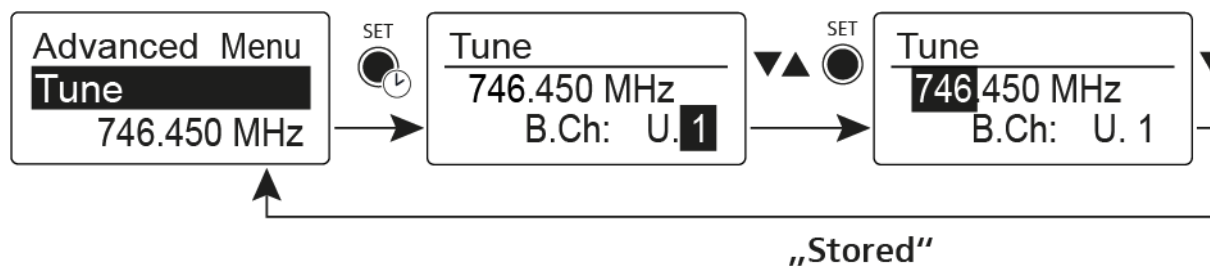
Only adjusting the frequency

- Open the **Tune** menu item in the **Advanced** menu.
- Adjust the settings.



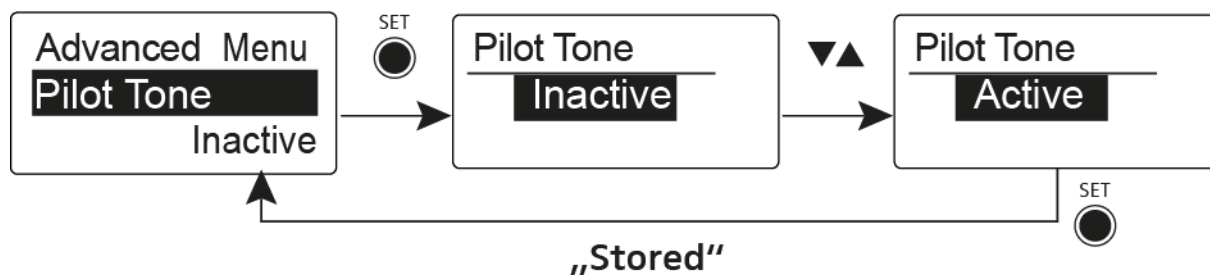
Setting the channel and frequency

- Select the menu item and call it up by holding down the **SET** button until the channel selection appears.



Advanced -> Pilot Tone menu item

In the **Pilot Tone** menu item of the **Advanced** submenu, you can activate and deactivate the pilot tone evaluation.

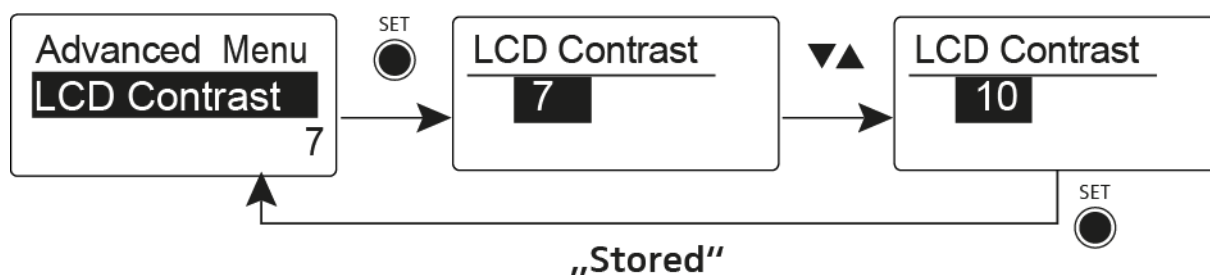


The pilot tone has an inaudible frequency that is sent from the transmitter and evaluated by the receiver. It supports the receiver's squelch function.



Advanced -> LCD Contrast menu item

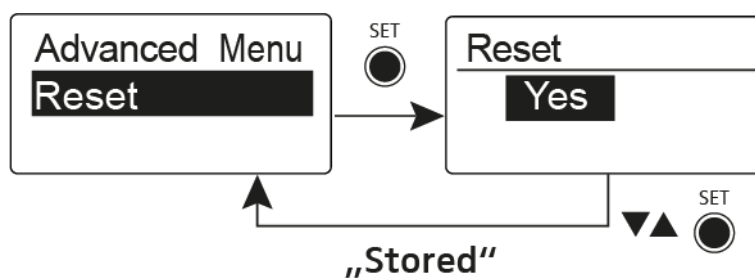
In the **LCD Contrast** menu item of the **Advanced** submenu, you can adjust the display contrast of the display panel in 16 steps.



Advanced -> Reset menu item

In the **Reset** menu item of the **Advanced** submenu, you can reset the settings of the receiver.

When you reset the diversity receiver, only the selected settings of the pilot tone and the **U** frequency bank are retained.



Advanced -> Software Revision menu item

In the **Software Revision** menu item of the **Advanced** submenu, you can display the current software version of the receiver.

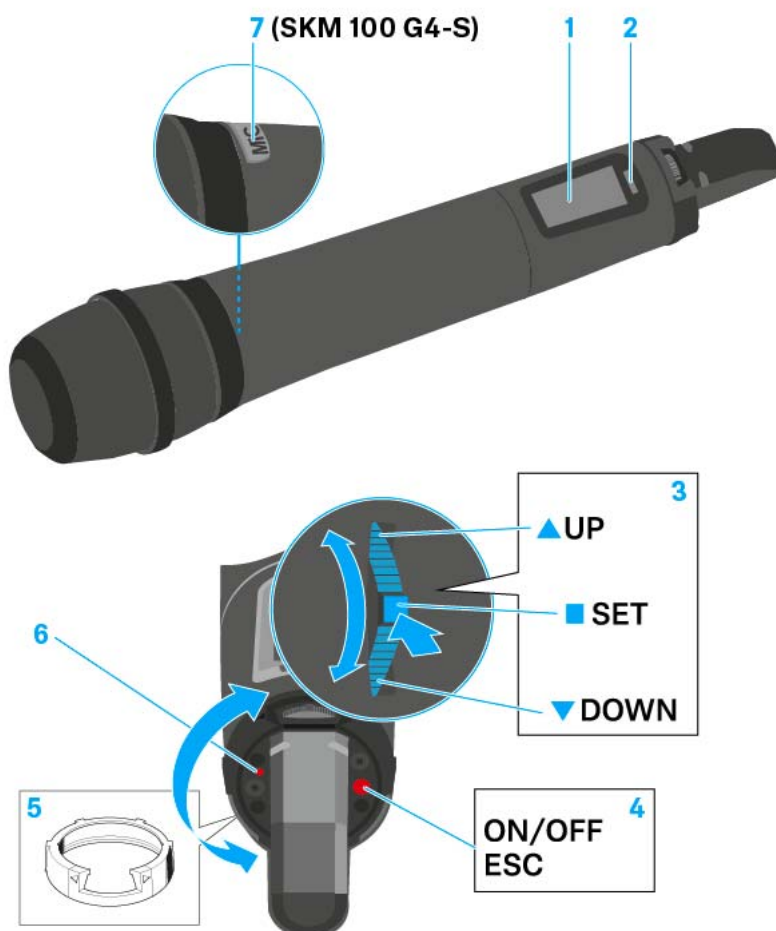


Using the SKM 100 G4

These sections contain detailed information about using the SKM 100 G4 and SKM 100 G4-S.

You can find information on installation and startup of the SKM 100 G4 and SKM 100 G4-S under “Installing the SKM 100 G4”.

Operating elements of the SKM 100 G4 handheld transmitter



- 1** Display panel
 - See “Displays on the SKM 100 G4 handheld transmitter display panel”
- 2** Infra-red interface
 - See “Synchronizing devices”
- 3** **DOWN**, **UP** and **SET** multi-function switch
 - See “Buttons for navigating the SKM 100 G4 menu”
- 4** **ON/OFF** button with ESC function in the operating menu
 - Switch the transmitter on or off
See “Switching the SKM 100 G4 handheld transmitter on and off”
 - Escape function in the menu
See “Buttons for navigating the SKM 100 G4 menu”



5 Colored ring

- Available in different colors (see “Additional accessories” and “Changing the colored ring”)
- Can be turned to protect the multi-function switch

6 Operation and battery indicator, red LED

- illuminated = ON
See “Switching the SKM 100 G4 handheld transmitter on and off”
- flashing = LOW BATTERY
See “Inserting and removing the batteries/rechargeable batteries”

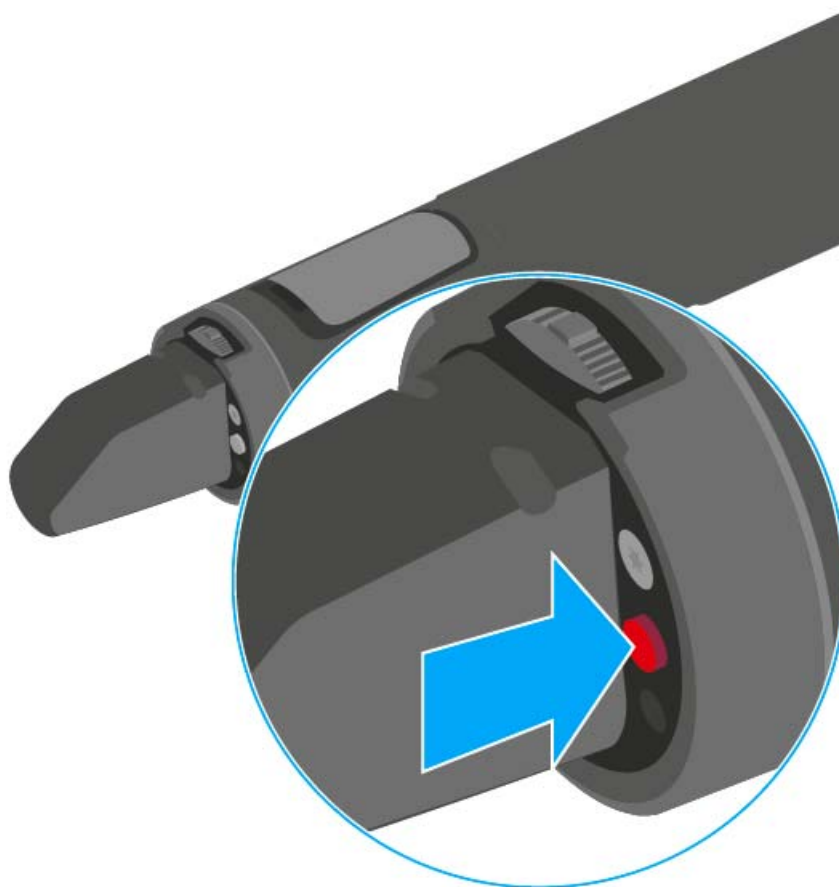
7 MIC button (only SKM 100 G4-S)

- See “Muting the handheld transmitter (AF mute)”
- See “Advanced > Mute Mode menu item (SKM 100 G4-S only)”

Switching the SKM 100 G4 handheld transmitter on and off

To switch on the SKM 100 G4:

- ▷ Hold down the **ON/OFF** button until the Sennheiser logo appears on the display.



To switch off the SKM 100 G4:

- ▷ Hold down the **ON/OFF** button until the display goes off.



Muting the handheld transmitter (AF mute)

SKM 100 G4

The audio signal of the transmitter cannot be muted.

However, when you deactivate the RF signal no AF signal is output. See “Deactivating the RF signal (RF mute)”.

SKM 100 G4-S

You can mute the audio signal by pressing the **MIC** button.



- The **MIC** button lights up red: the audio signal is activated
- The **MIC** button is not lit: the audio signal is muted



Deactivating the RF signal (RF mute)

You can temporarily deactivate the RF signal when the microphone is switched on. When the RF signal is deactivated, no audio signal is output.

Use this function to save battery or when you want to prepare a microphone for use during live broadcast without interfering with the current transmission path.

To **deactivate** the **RF signal**:

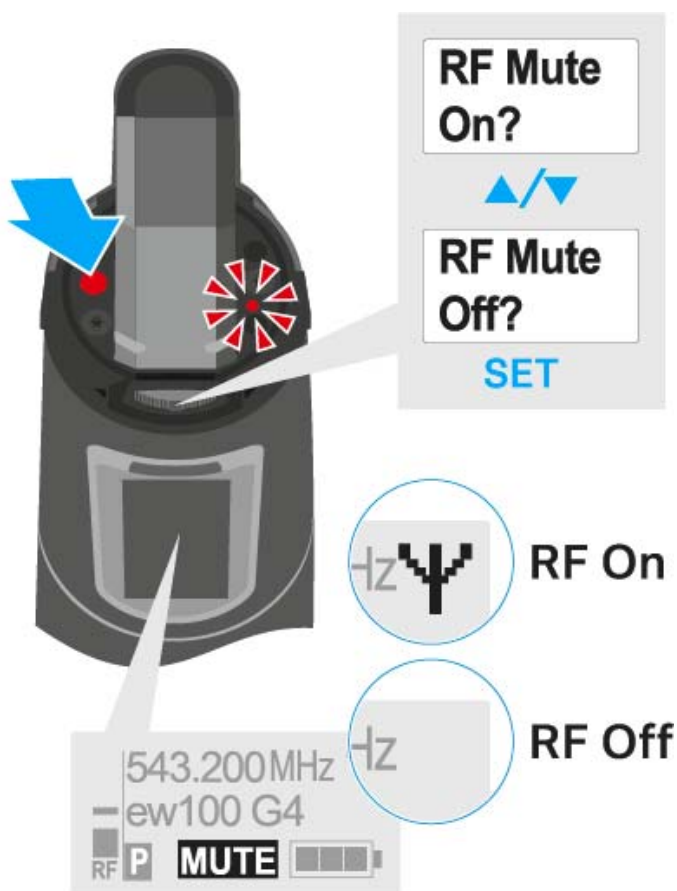
- Short-press the **ON/OFF** button.
RF Mute On? appears.
- Press the **SET** button.

The transmission frequency is displayed, however the wireless microphone is not transmitting an RF signal. The transmission icon is not lit (see “Displays on the SKM 100 G4 handheld transmitter display panel”).

To **activate** the **RF signal**:

- Short-press the **ON/OFF** button.
RF Mute Off? appears.
- Press the **SET** button.

The transmission icon appears again (see “Displays on the SKM 100 G4 handheld transmitter display panel”).





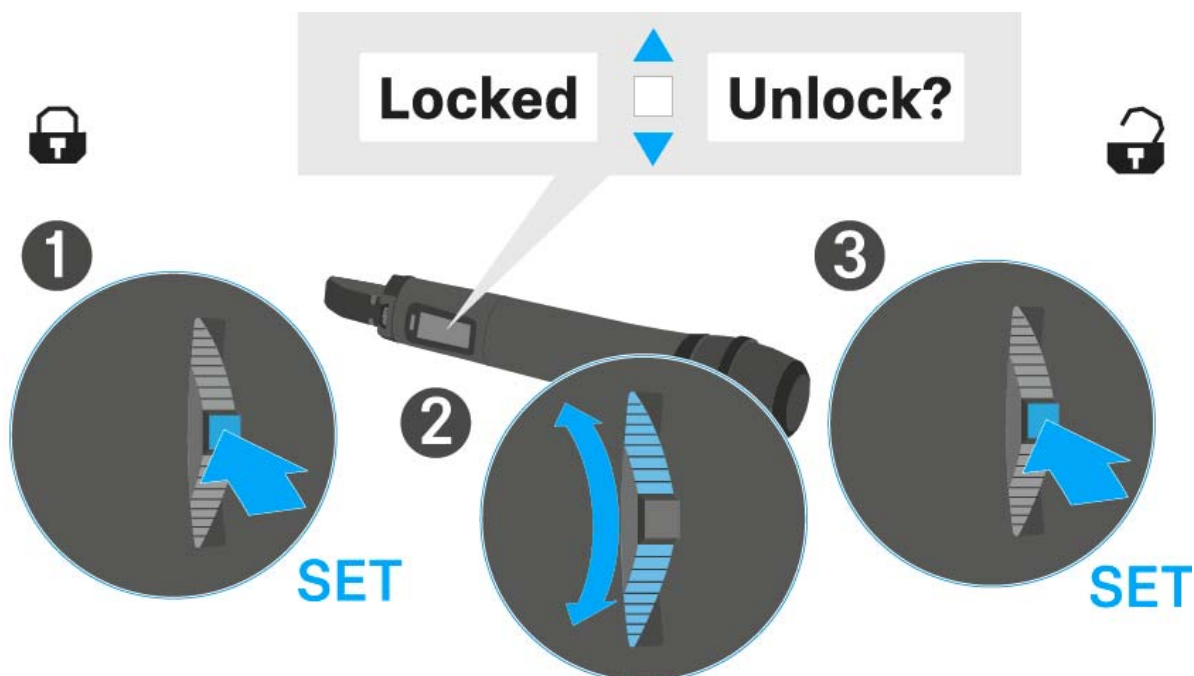
Lock-off function

You can set the automatic lock-off function in the **Auto lock** menu (see “Buttons for navigating the SKM 100 G4 menu”).

When you have switched on the lock-off function, you will have to turn the transmitter off and on again in order to operate it.

To temporarily deactivate the lock-off function:

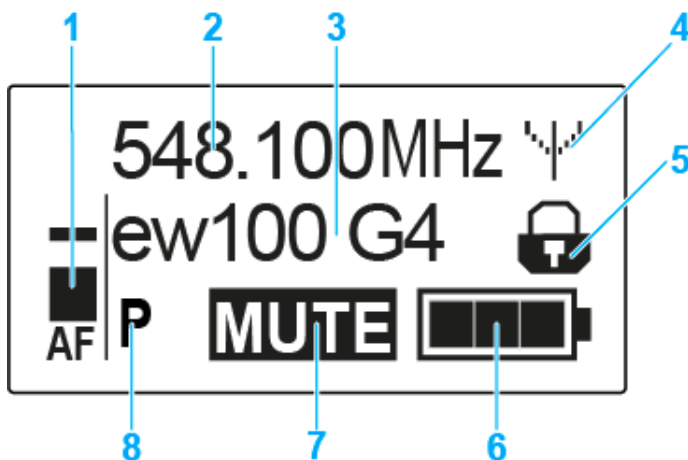
- ▷ Press the **SET** button.
Locked appears in the display panel.
- ▷ Press the **UP** or **DOWN** button.
Unlock? appears in the display panel.
- ▷ Press the **SET** button.
Lock-off function is now temporarily deactivated.





Displays on the SKM 100 G4 handheld transmitter display panel

You can view the following information on the transmitter display.



- 1 AF** audio level
 - Displays the audio level with peak hold function
 - See "Sensitivity menu item"
- 2** Frequency
 - Configured transmission frequency
 - See "Frequency Preset menu item"
- 3** Name
 - Freely selectable name of the receiver
 - See "Name menu item"
- 4** Transmission icon
 - RF signal is being transmitted
 - See "Deactivating the RF signal (RF mute)"
- 5** Lock-off function
 - Lock-off function is activated
 - See "Auto Lock menu item"
- 6** Battery status
 - See "Battery status"
- 7 MUTE** muting function
 - The audio signal is muted
 - See "Muting the handheld transmitter (AF mute)"
 - See "Deactivating the RF signal (RF mute)"
- 8 P** pilot tone
 - Pilot tone transmission is activated
 - See "Advanced > Pilot Tone menu item"

>> "Buttons for navigating the SKM 100 G4 menu"

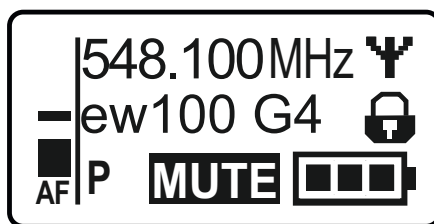
>> "Setting options in the menu"



Select a standard display

- Move the **multi-function switch** to select a standard display:

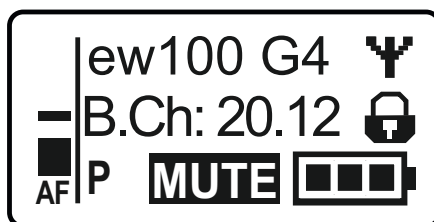
Frequency/Name standard display



Channel/Frequency standard display



Name/Channel standard display





Buttons for navigating the SKM 100 G4 menu

Navigating through the menu

To open the menu:

- ▷ Press the **SET** button.

The operating menu is shown on the transmitter display panel.

To open a menu item:

- ▷ Press the **UP** or **DOWN** buttons to navigate through the individual menu items.
- ▷ Press the **SET** button to open the selected menu item.



“Operating elements of the SKM 100 G4 handheld transmitter”

Making changes in a menu item

After you open a menu item, you can make changes as follows:

- ▷ Press the **UP** or **DOWN** buttons to set the displayed value.
- ▷ Press the **SET** button to save the setting.
- ▷ Press the **ESC (ON/OFF)** button to leave the menu item without saving the setting.



“Operating elements of the SKM 100 G4 handheld transmitter”

>> “Displays on the SKM 100 G4 handheld transmitter display panel”

>> “Setting options in the menu”



Setting options in the menu

In the SKM 100 G4 menu, you can configure the following settings.

Adjusting the input sensitivity

- ▷ See “Sensitivity menu item”
-

Setting the frequency bank and the channel

- ▷ See “Frequency Preset menu item”
-

Entering a freely selectable name

- ▷ See “Name menu item”
-

Activating/deactivating the automatic lock-off function

- ▷ See “Auto Lock menu item”
-

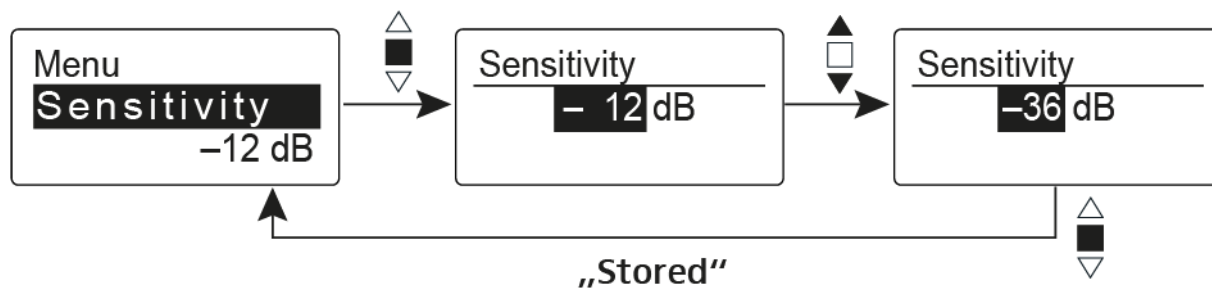
Configuring enhanced settings in the **Advanced Menu**:

- Adjusting the transmission frequencies for the U frequency bank
 - Defining the MIC button setting (SKM 100 G4-S only)
 - Activating/deactivating the pilot tone evaluation
 - Adjusting the contrast of the display panel
 - Resetting the transmitter
 - Displaying the current software revision
 - ▷ See “Advanced menu item”
-



Sensitivity menu item

- Adjusting the input sensitivity – **AF** audio level



Setting range: 0 dB to -48 dB in 6 dB steps.

The **AF** audio level is also displayed when the wireless microphone is muted, e.g. to check the sensitivity before a live broadcast.

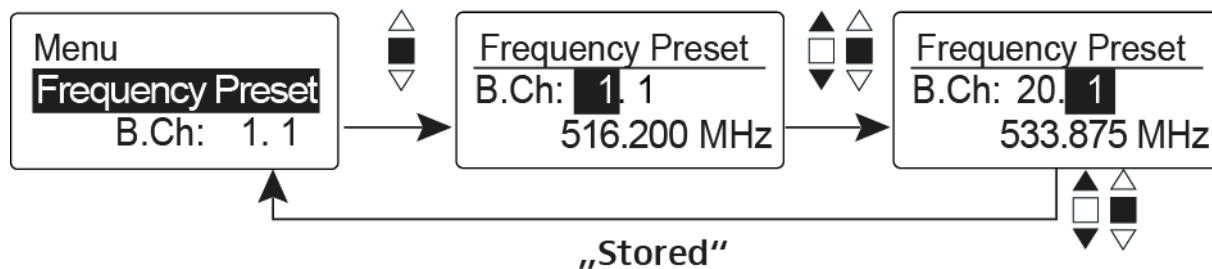
Recommended presets:

- Loud music/vocals: -48 to -18 dB
- Moderation: -18 to -12 dB
- Interviews: -12 to 0 dB



Frequency Preset menu item

- Manually selecting a frequency bank and channel



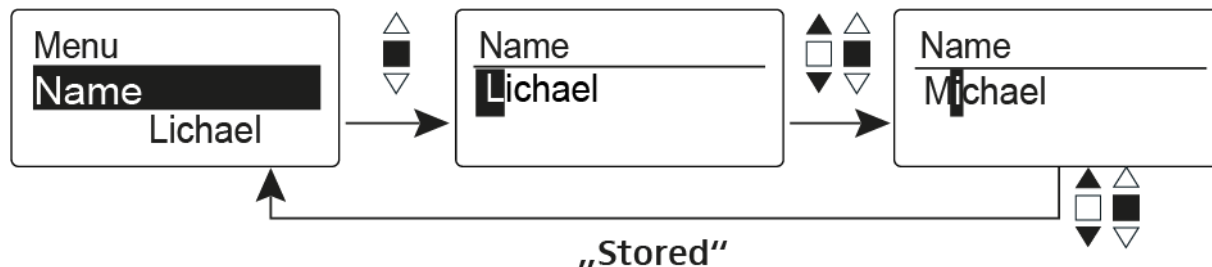
While you work in the Frequency Preset menu, the RF signal is deactivated.

Please note when creating multi-channel systems:

Only the factory-preset frequencies within one frequency bank are inter-modulation-free. The wireless microphone and receiver must be set to the same frequency. Be sure to note the information on frequency selection under “Establishing a radio link”.

Name menu item

- Entering names



In the **Name** menu item you can enter any name you want for the wireless microphone (e.g. the names of the musicians).

The name can be shown in the [Frequency/Name](#) and [Name/Channel](#) standard displays.

The names are a maximum of 8 characters:

- All letters except umlauts.
- Numbers from 0 to 9
- Special characters and spaces

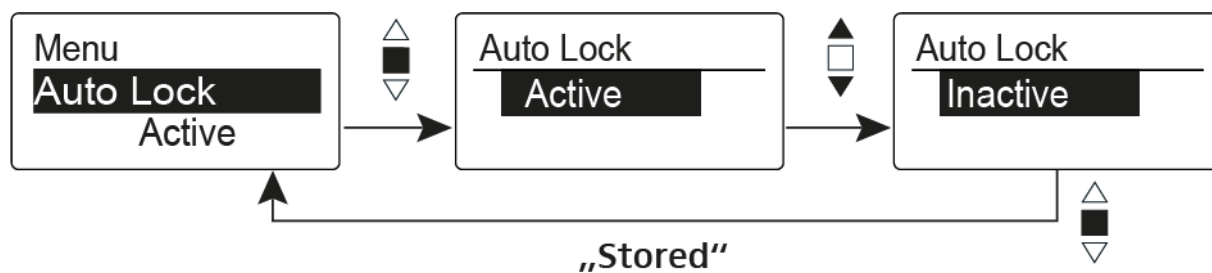
Enter the names as follows:

- Move the multi-function switch to select a character.
- Press the multi-function switch to jump to the next space or to save the name you have entered once it is complete.



Auto Lock menu item

- Switching the automatic lock-off function on and off



This lock prevents the wireless microphone from being unintentionally switched off and also prevents any unintentional changes to the transmitter's configuration. In the current standard display, the lock icon shows whether the lock-off function is currently switched on.

You can find information about using the lock-off function under "Lock-off function".



Advanced menu item

In the **Advanced** submenu you can configure enhanced settings.

The following sub-items are available:

Adjusting the transmission frequencies for the U frequency bank

- ▷ See “Advanced > Tune menu item”

Defining the MIC button setting (SKM 100 G4-S only)

- ▷ See “Advanced > Mute Mode menu item (SKM 100 G4-S only)”

Activating/deactivating the pilot tone evaluation

- ▷ See “Advanced > Pilot Tone menu item”

Adjusting the contrast of the display panel

- ▷ See “Advanced > LCD Contrast menu item”

Resetting the transmitter

- ▷ See “Advanced > Reset menu item”

Displaying the current software revision

- ▷ See “Advanced > Software Revision menu item”
-



Advanced > Tune menu item

- Configuring the transmission frequency and frequency bank U

When you have configured the wireless microphone to a system bank and you call up the **Tune** menu item, channel 1 of the frequency bank **U** is automatically set. The message **U.1** briefly appears in the display. In the factory settings, the channels of the frequency bank **U** are not assigned to any transmission frequency.

While you work in the **Tune** menu, the RF signal is deactivated.

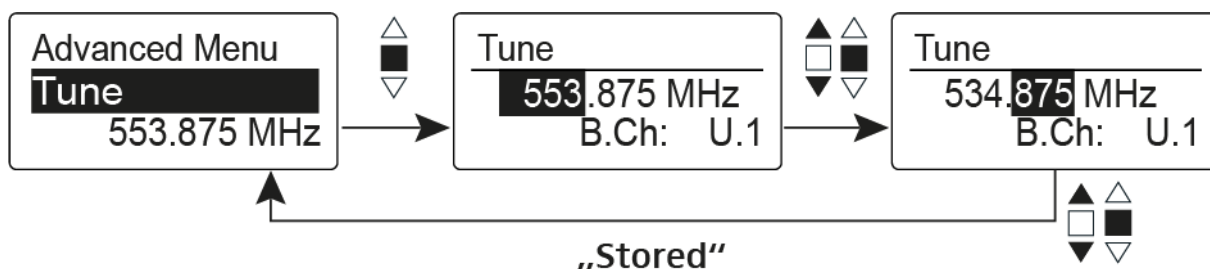
You can configure a transmission frequency for the current channel or select a channel in the frequency bank **U** and configure a transmission frequency for this channel in the **Tune** menu. Be sure to note the information on frequency selection, see “Setting notes”.

Only adjusting the frequency

To configure the transmission frequency for the current channel:

- Open the **Tune** menu item in the **Advanced** menu.

The frequency selection appears.

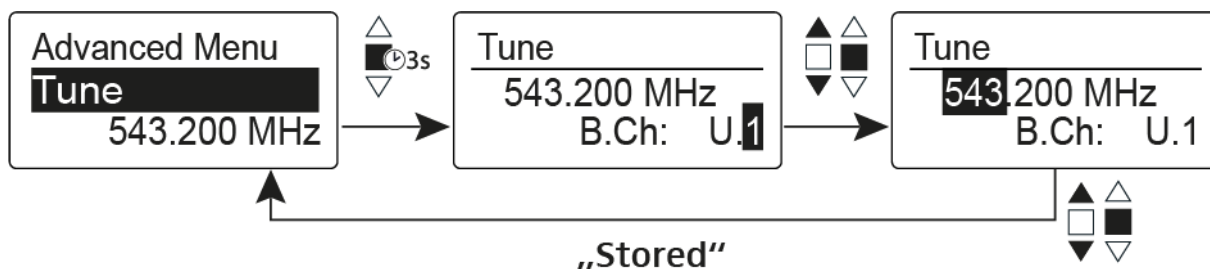


- Configure the desired frequency.
 - Press the multi-function switch.
- Your settings will be saved. You are now back in the operating menu.

Setting the channel and frequency

To select a **channel** and assign it a frequency:

- Move the multi-function switch until the **Tune** menu item appears.
- Hold down the multi-function switch until the frequency bank selection appears.

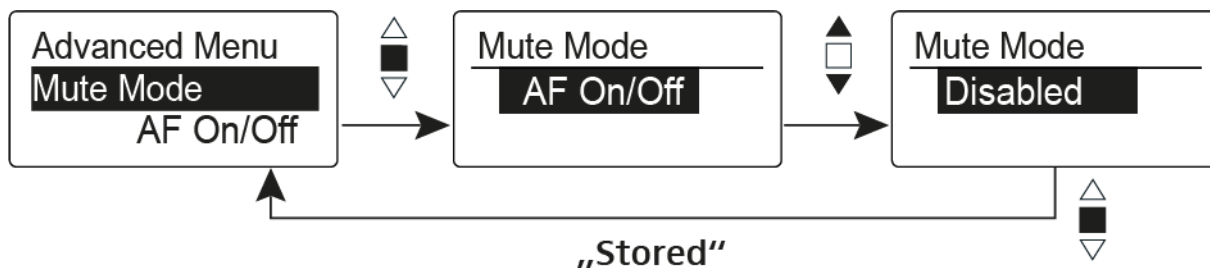


- Set the desired channel.
 - Press the multi-function switch.
- The frequency selection appears.
- Configure the frequency.



Advanced > Mute Mode menu item (SKM 100 G4-S only)

- Configuring the function of the **MIC** button



AF On/Off mode

- When you press the **MIC** button, no audio signal is transmitted.

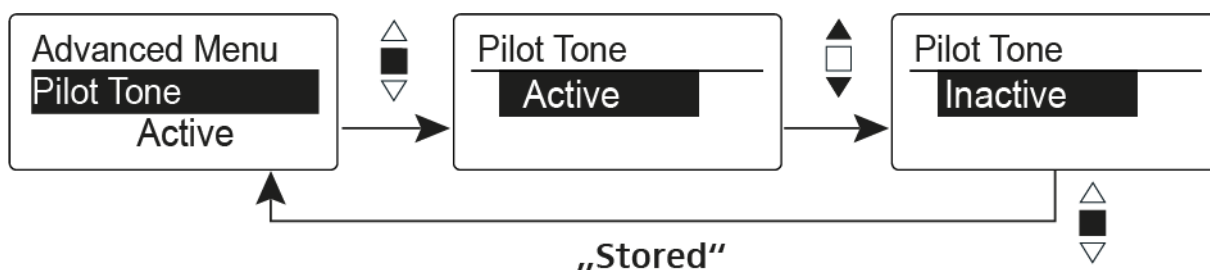
Disabled mode

- No function

You can find information about the **MIC** button under “Muting the handheld transmitter (AF mute)”.

Advanced > Pilot Tone menu item

- Activating/deactivating pilot tone transmission



The pilot tone has an inaudible frequency that is sent from the transmitter and evaluated by the receiver. It supports the receiver’s squelch function.

Advanced > LCD Contrast menu item

- Adjusting the contrast of the display panel

You can configure the contrast of the display in 16 steps.



- ▷ Screw the sound inlet basket back onto the microphone module.

From time to time, you should also clean the microphone module contacts:

- ▷ Wipe the contacts of the microphone module with a soft, dry cloth.

