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.
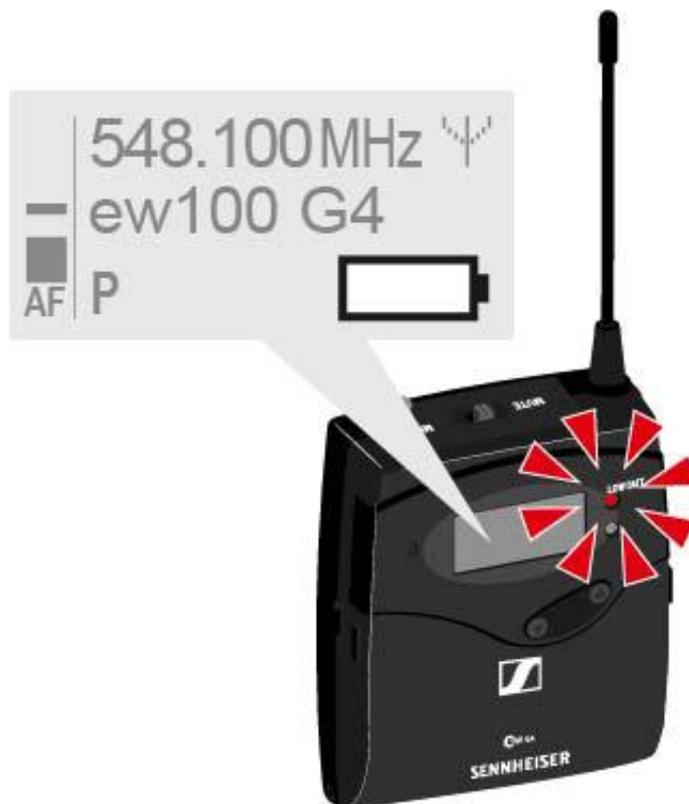
The cover locks into place with an audible click.

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 waist-band or on a guitar strap.
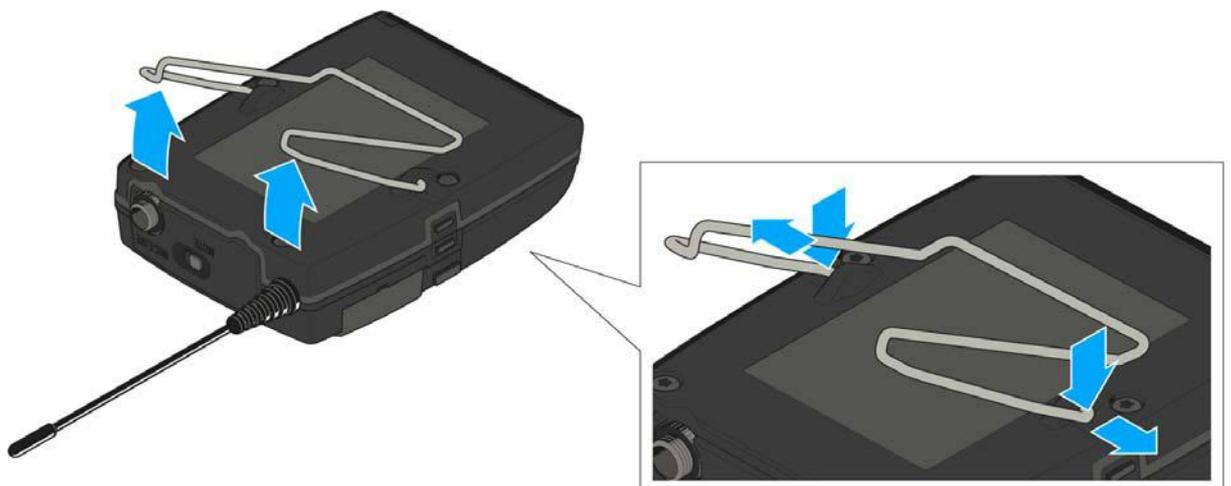
The belt clip is detachable so that you can also attach the bodypack trans-mitter with the antenna pointing downwards. To do so, withdraw the belt clip from its fixing points and attach it the other way round.

The belt clip is secured so that it cannot slide out of its fixing points acci-dentally.
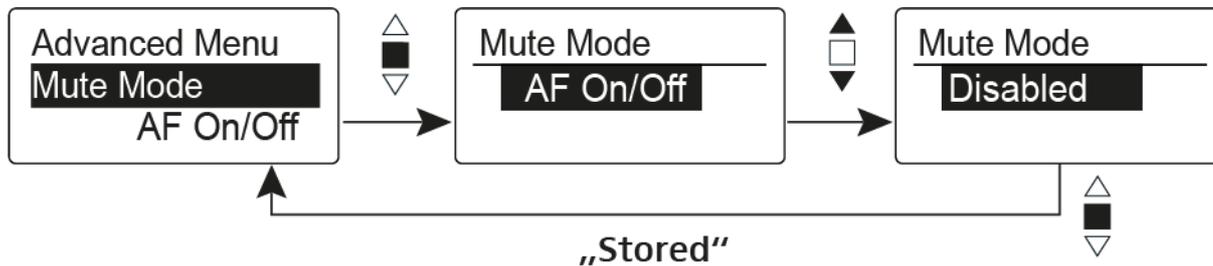
To detach the belt clip:

▷ 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.

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

• Configuring the function of the **MIC** button

AF On/Off mode

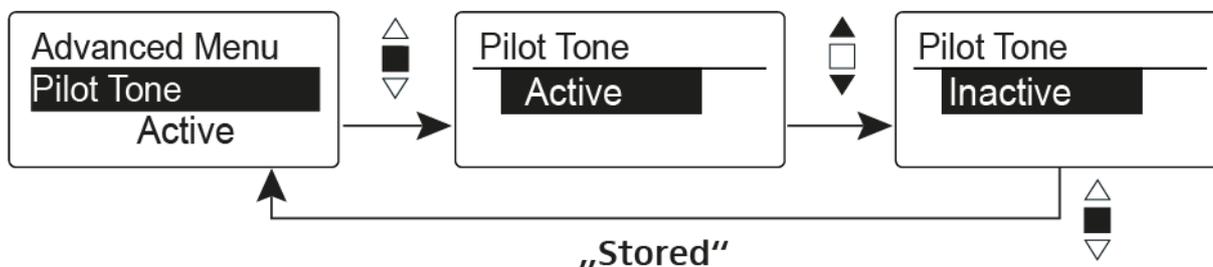• When you press the **MIC** button, no audio signal is transmitted.

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.

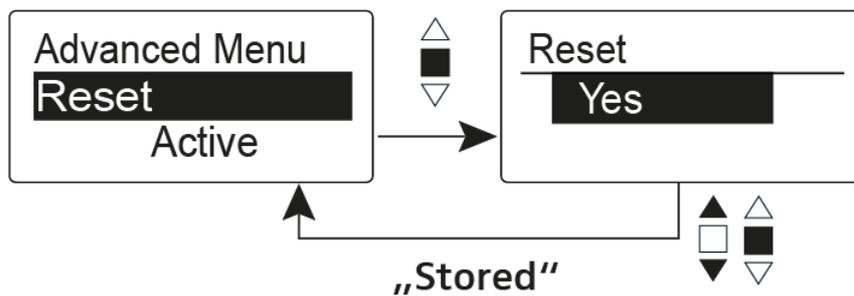## Advanced > LCD Contrast menu item

• Adjusting the contrast of the display panel

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

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Advanced > Reset menu item

- Resetting the wireless microphone

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

Advanced > Software Revision menu item

- Show software revision

You can display the current software revision.

Using the SK 100 G4

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

You can find information on installation and startup of the SK 100 G4 under "Installing the SK 100 G4".

Operating elements of the SK 100 G4 bodypack transmitter

1 Display panel
- See "Displays on the SK 100 G4 bodypack transmitter display panel"

2 Operation and battery indicator, red LED
- illuminated = ON
  See "Switching the SK 100 G4 bodypack transmitter on and off"
- flashing = LOW BATTERY
  See "Inserting and removing the batteries/rechargeable batteries"

3 Audio overload indicator, yellow LED
- illuminated = AF PEAK (overload)
  See "Sensitivity menu item"

4 **UP** button
- See "Buttons for navigating the SK 100 G4 menu"

5 **SET** button
- See "Buttons for navigating the SK 100 G4 menu"

6 **DOWN** button
- See "Buttons for navigating the SK 100 G4 menu"

7 **ON/OFF** button with ESC function in the operating menu

- Switch the transmitter on or off
  See "Switching the SK 100 G4 bodypack transmitter on and off"
- Escape function in the menu
  See "Buttons for navigating the SK 100 G4 menu"

8 Infra-red interface

- See "Synchronizing devices"

9 **MUTE** switch

- Deactivate and activate audio signal
  See "Muting the bodypack transmitter (AF mute)"
- Deactivate and activate RF signal
  See "Deactivating the RF signal (RF mute)"

Switching the SK 100 G4 bodypack transmitter on and off

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

To switch on the SK 100 G4:

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

To switch off the SK 100 G4:

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

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Muting the bodypack transmitter (AF mute)

You can deactivate the audio signal with the **MUTE** switch.

To do this, the **MUTE** switch function must be configured to **AF On/Off**. You can find more information about this subject under "Advanced > Mute Mode menu item".

▷   Slide the **MUTE** switch to the MUTE position.
    The audio signal is muted. The message MUTE is shown on the display.

Deactivating the RF signal (RF mute)

You can deactivate the RF signal in two ways:

Deactivating the RF signal with the **MUTE** switch

You can deactivate the RF signal with the **MUTE** switch.

To do this, the **MUTE** switch function must be configured to **RF On/Off.** You can find more information about this subject under "Advanced > Mute Mode menu item".

▷ Slide the **MUTE** switch to the MUTE position.

The RF signal is deactivated. The message MUTE is shown in the display and the transmission icon no longer appears.

Deactivating the RF signal with the ON/OFF button

You can deactivate the RF signal with the **ON/OFF** button.

To deactivate the RF signal:
▷ Short-press the **ON/OFF** button.
   RF Mute On? appears.
▷ Press the **SET** button.
   The RF signal is deactivated. The message MUTE is shown in the display and the transmission icon no longer appears.

To activate the RF signal:
▷ Short-press the **ON/OFF** button.
   RF Mute Off? appears.
▷ Press the **SET** button.
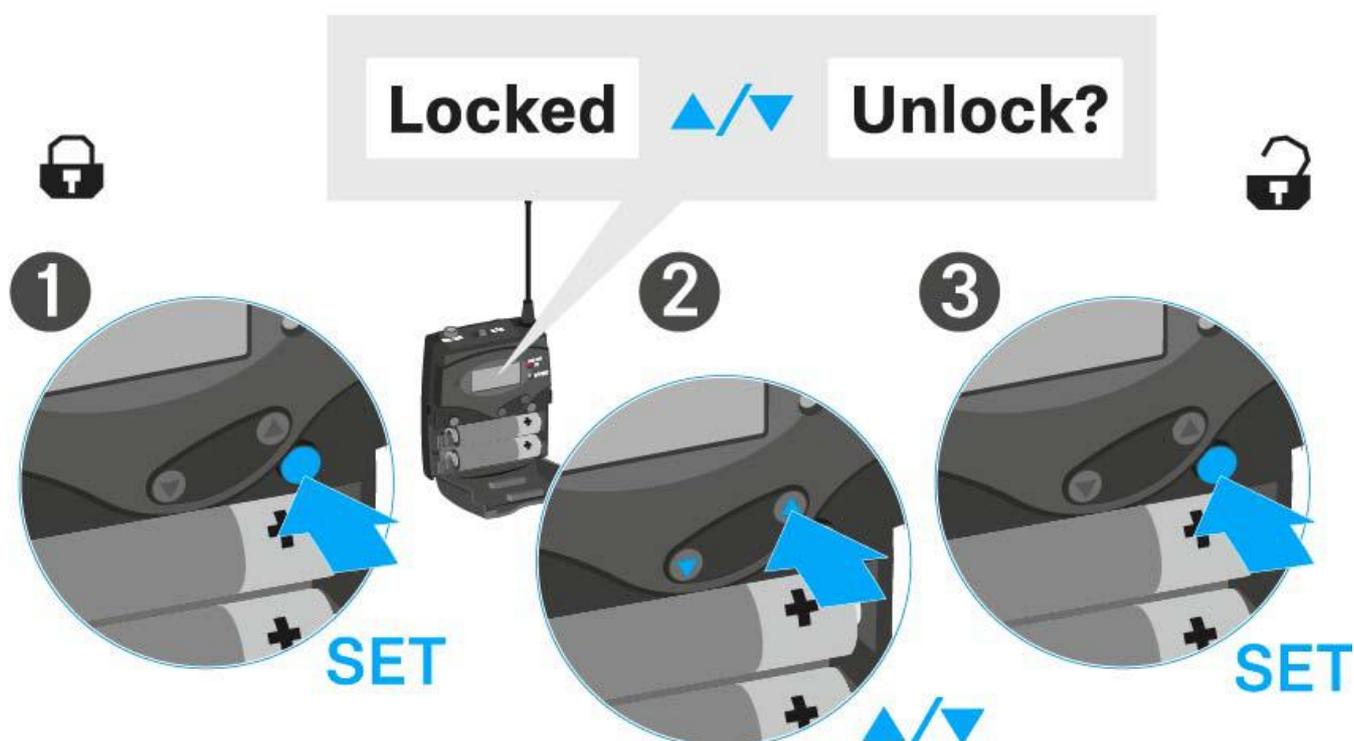   The transmission icon appears again.

Lock-off function

You can set the automatic lock-off function in the **Auto lock** menu (see "Buttons for navigating the SK 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.

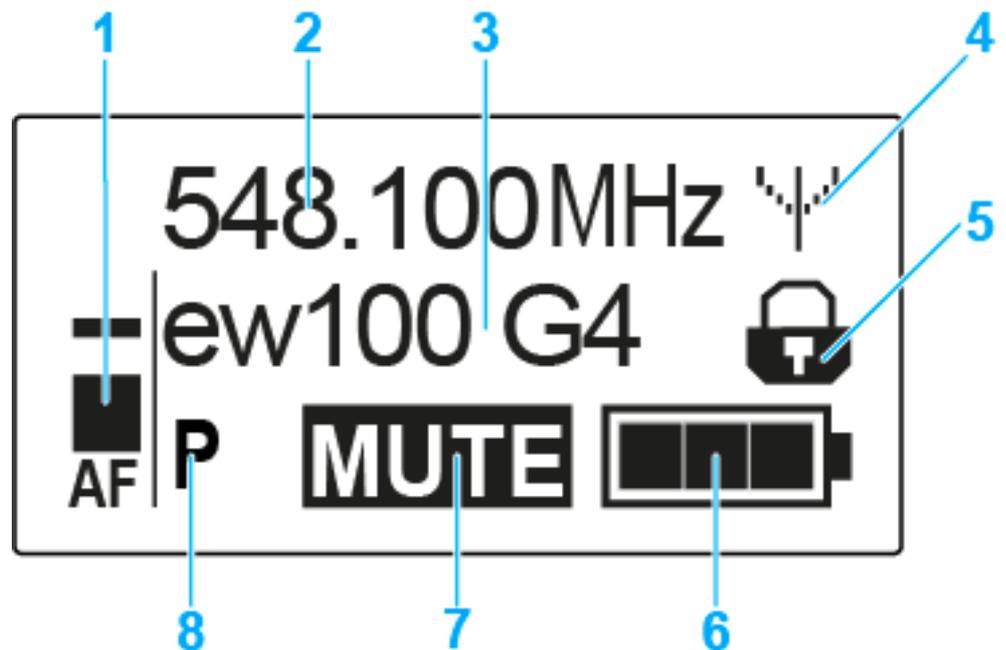To temporarily deactivate the lock-off function:

▷ 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 SK 100 G4 bodypack 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 bodypack 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 SK 100 G4 menu"

>> "Setting options in the menu"

Select a standard display

▷ Press the **UP** or **DOWN** buttons to select a standard display.

Frequency/Name standard display

Channel/Frequency standard display

Name/Channel standard display

Buttons for navigating the SK 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.

> **i**   "Operating elements of the SK 100 G4 bodypack 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.

> **i**   "Operating elements of the SK 100 G4 bodypack transmitter"

>> "Displays on the SK 100 G4 bodypack transmitter display panel"

>> "Setting options in the menu"

Setting options in the menu

In the SK 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
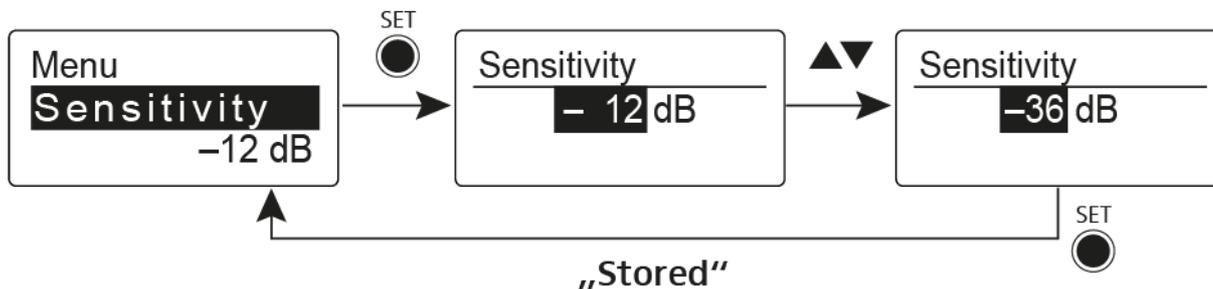
▷ See "Auto Lock menu item"

Configuring enhanced settings in the Advanced Menu:

• Adjusting the transmission frequencies for the U frequency bank
• Configuring the MUTE switch
• Configuring the guitar cable emulation
• 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"

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Sensitivity menu item

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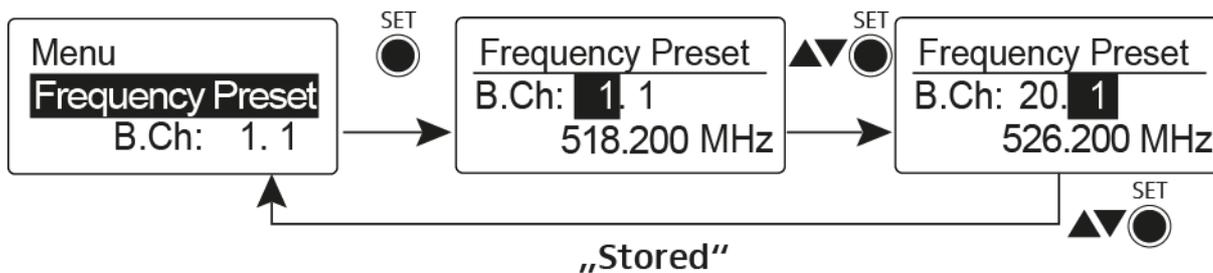

Setting range: 0 dB to –60 dB in 6 dB steps.

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

Recommended presets:

- Loud music/vocals: –30 to –21 dB
- Moderation: -21 to 0 dB
- Electric guitar with single-coil pickups: –30 to -24 dB
- Electric guitar with Humbucker pickups: -45 to -30 dB
- Electric guitars with active electronics: -45 to -30 dB

Frequency Preset menu item

- Manually selecting a frequency bank and channel

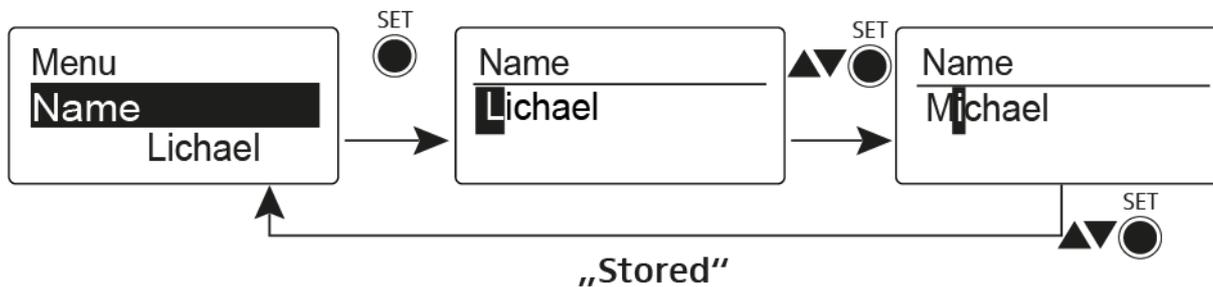> **i** While you work in the Frequency Preset menu, the RF signal is deactivated.

Please note when creating multi-channel systems:

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

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Name menu item

- Entering names

„Stored"

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

The name can be shown in the Frequency/Name and Name/Channel standard displays.
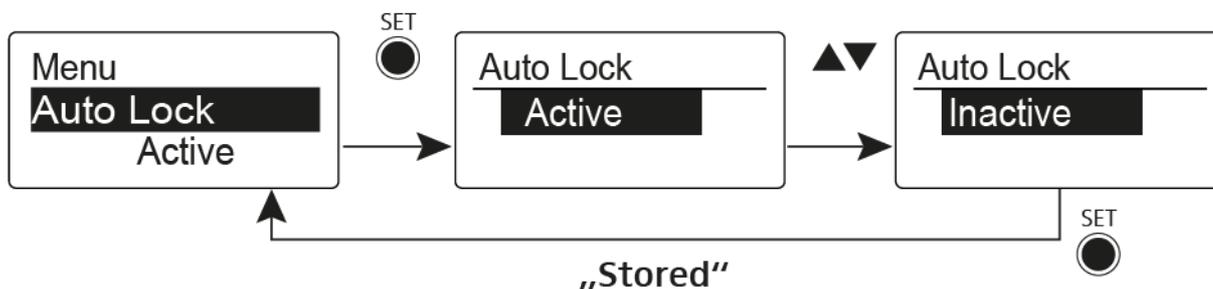
The names are a maximum of 8 characters:

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

Enter the names as follows:
▷ Press the **UP** or **DOWN** buttons to select a character.
▷ Press the **SET** button to switch 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

„Stored"

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"

Configuring the MUTE switch

▷ See "Advanced > Mute Mode menu item"

Configuring the guitar cable emulation

▷ See "Advanced > Cable Emulation 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 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 bodypack transmitter 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.
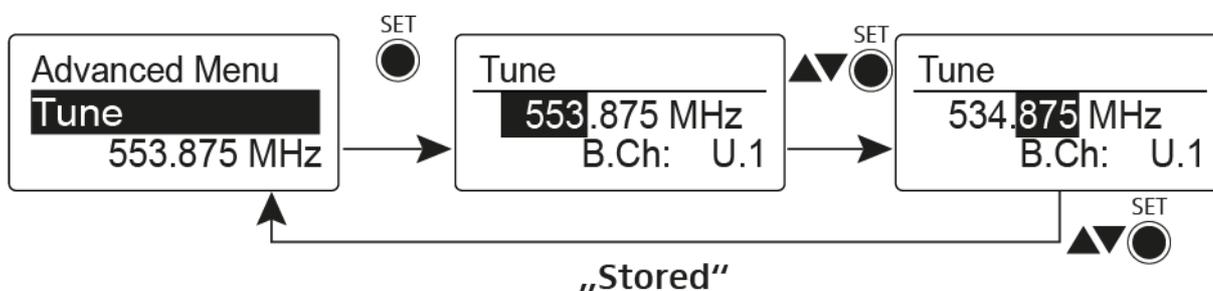
While you work in the **Tune** menu, the RF signal is deactivated.

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.
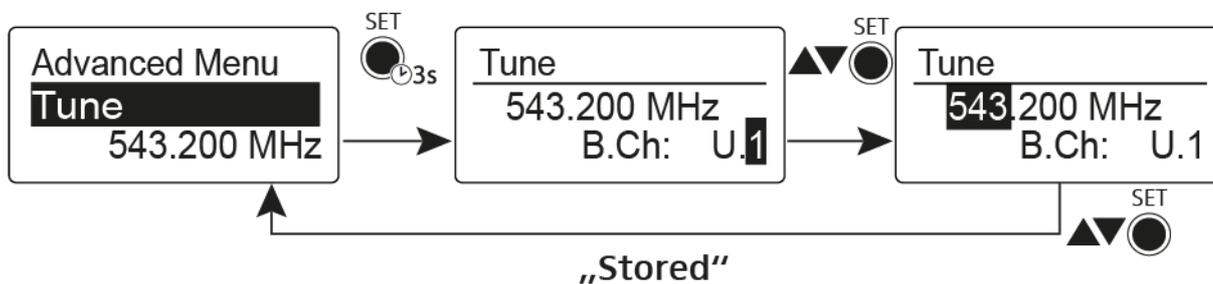
   The frequency selection appears.

▷ Configure the desired frequency.
▷ Press the **SET** button.

   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:

▷ Open the **Tune** menu item in the **Advanced** menu by pressing and holding the **SET** button until the frequency bank selection appears.
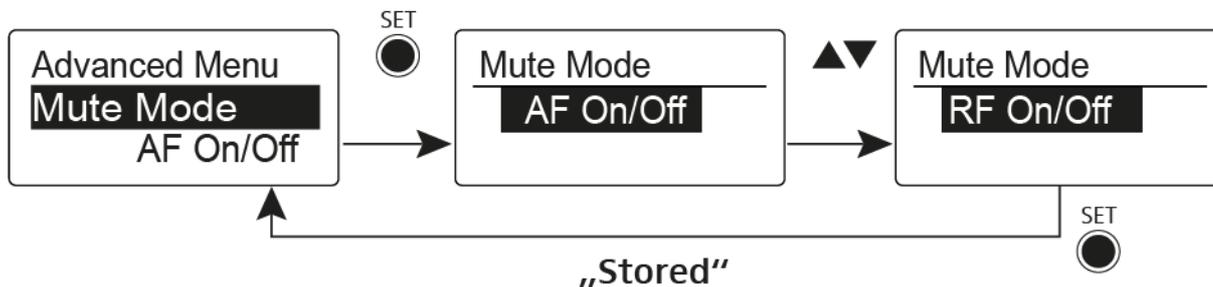

▷ Set the desired channel.
▷ Press the **SET** button.

   The frequency selection appears.

▷ Configure the frequency.

Advanced > Mute Mode menu item

• Configuring the **MUTE** switch

AF On/Off mode

• If set to position MUTE, the audio signal is muted.

RF On/Off mode

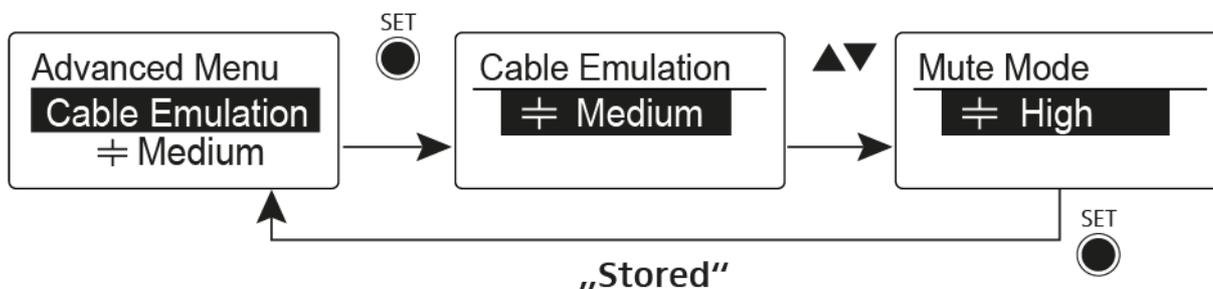• If set to position MUTE, the RF signal is deactivated.

Disabled mode

• No function

You can find information about operating the mute switch under "Muting the bodypack transmitter (AF mute)" and "Deactivating the RF signal (RF mute)".

Advanced > Cable Emulation menu item
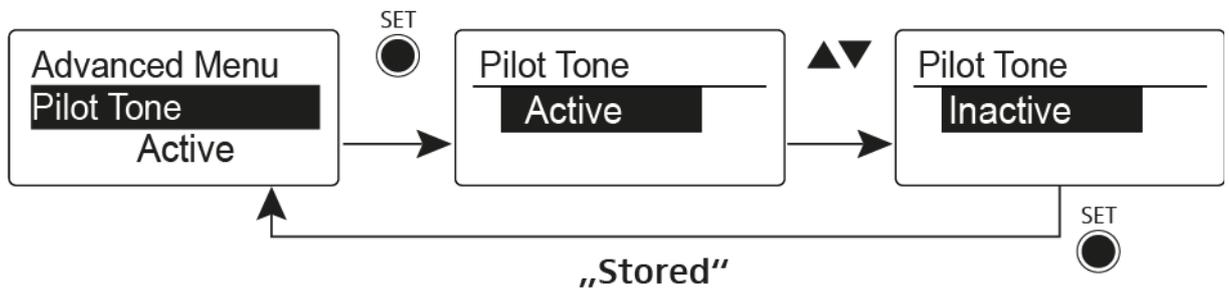
• Emulating a guitar cable

Using this menu item you can emulate the capacitances of your guitar cables and influence the sound of your guitar.

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.
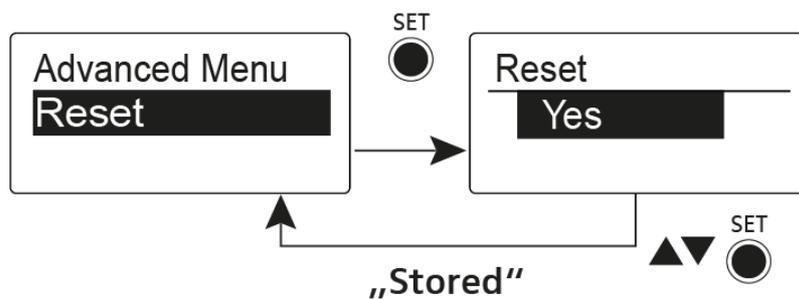
Advanced > LCD Contrast menu item

- Adjusting the contrast of the display panel

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

Advanced > Reset menu item

- Resetting the bodypack transmitter

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

Advanced > Software Revision menu item

- Show software revision

You can display the current software revision.

Establishing a radio link

To establish a radio link between the transmitter and receiver, the same frequency must be set in both devices.

You can do this in a number of different ways:

1. Use the **Easy Setup** function to perform an **automatic frequency set-up** (see "Easy Setup menu item").

2. Set a frequency in the receiver **manually** (see "Frequency Preset menu item") and **synchronize** it with the transmitter (see "Synchronizing devices").

3. Set the frequency on the receiver and the transmitter **manually** (EM 100 G4: "Frequency Preset menu item", SKM 100 G4: "Frequency Preset menu item", SK 100 G4: "Frequency Preset menu item")

Setting notes

Please note the following when synchronizing a transmitter with a receivers:

▷ Only use transmitters and receivers from the same frequency range (see the type plate on the transmitter and receiver).

▷ Make sure that your chosen frequencies are listed in the frequency table for the particular frequency range (see "Frequency tables").

▷ Ensure that the desired frequencies are permitted in your country and apply for an operating license if necessary.

ⓘ **Please note the information at the following address:**

General conditions and restrictions for the use of frequencies

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Synchronizing devices

You can synchronize ew 100 G4 series transmitters and receivers via the receiver's infrared interface.

The following **Parameters** are transferred to the transmitters:

• **Frequency Preset** >> currently configured frequency (see "Frequency Preset menu item")

• **Name** >> individually configured name (see "Name menu item")

• **Pilot Tone** >> current setting of the pilot tone on the receiver (see "Advanced -> Pilot Tone menu item")

To synchronize the devices:

▷ Switch the transmitter and the receiver on.

▷ Press the **SYNC** button on the receiver.
   Sync appears in the receiver's display and the blue LED turns blue.

▷ Hold the infra-red interface of the transmitter (see "Operating elements

of the SKM 100 G4 handheld transmitter" and "Operating elements of the SK 100 G4 bodypack transmitter") in front of the infra-red interface of the receiver (see "Operating elements on the front of the device").

The parameters are transferred to the transmitter. The blue LED blinks during transmission.

When the transfer is complete, a tick appears in the receiver's display as a confirmation. Then the receiver will return to the current standard display.

To cancel synchronization:

▷ Press the **ESC** button on the receiver.

An **X** appears in the display.

This icon also appears when:

• no transmitter is found or the transmitter is not compatible.

• no transmitter is found and the synchronization process automatically ends after 30 seconds.

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