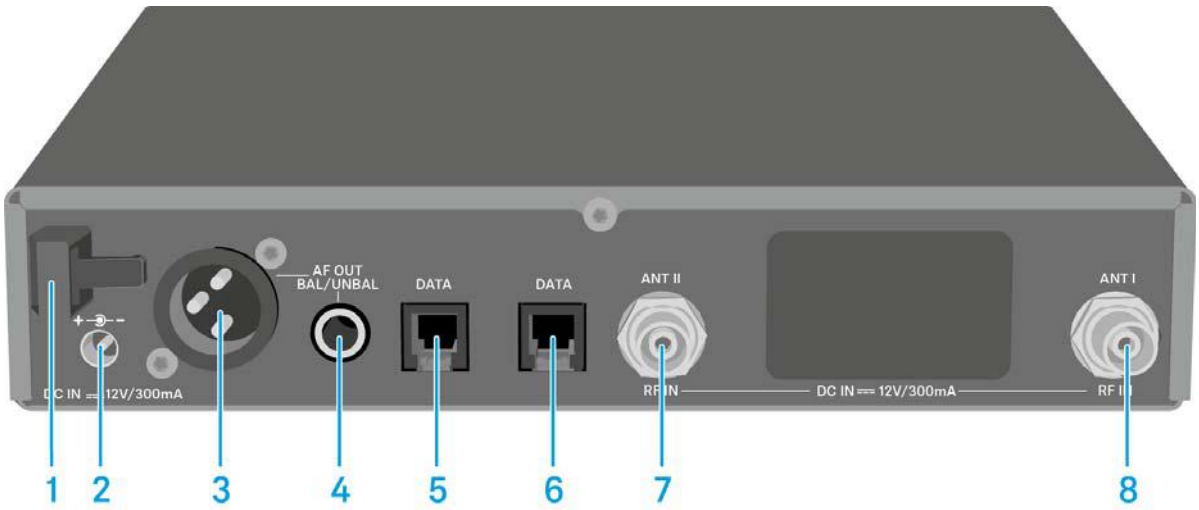
Installing the EM 100 G4

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

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

Connectors on the rear of the device

Product overview for the rear side of the **EM 100 G4**



1 Strain relief for the cable of the power supply unit
- See “Connecting/disconnecting the EM 100 G4 to/from the power supply system”

2 Connecting cables for the power supply unit (**DC IN**)
- See “Connecting/disconnecting the EM 100 G4 to/from the power supply system”

3 XLR-3 socket for audio output, balanced (**AF OUT BAL**)
- See “Outputting audio signals”

4 6.3 mm jack socket for audio output, unbalanced (**AF OUT UNBAL**)
- See “Outputting audio signals”

5 RJ-10 interface (**DATA**)
- See “Creating a data network”

6 RJ-10 interface (**DATA**)
- See “Creating a data network”

7 BNC socket, antenna input II (**ANT II**) with remote power supply unit
- See “Connecting antennas”

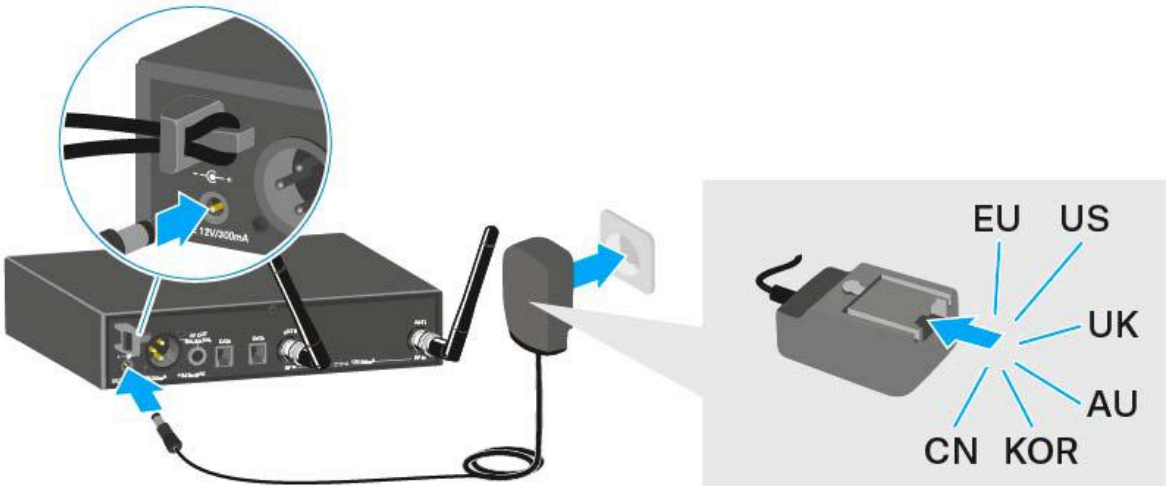
8 BNC socket, antenna input I (**ANT I**) with remote power supply unit
- See “Connecting antennas”

Connecting/disconnecting the EM 100 G4 to/from the power supply system

Only use the supplied power supply unit. It is designed for your receiver and ensures safe operation.

To connect the EM 100 G4 to the power supply system:

- ▹ Insert the plug of the power supply unit into the **DC IN** socket of the receiver.
- ▹ Pass the cable of the power supply unit through the cable grip.
- ▹ Slide the supplied country adapter onto the power supply unit.
- ▹ Plug the power supply unit into the wall socket.



To completely disconnect the EM 100 G4 from the power supply system:

- ▹ Unplug the power supply unit from the wall socket.
- ▹ Unplug the power supply unit from the **DC IN** socket of the receiver.

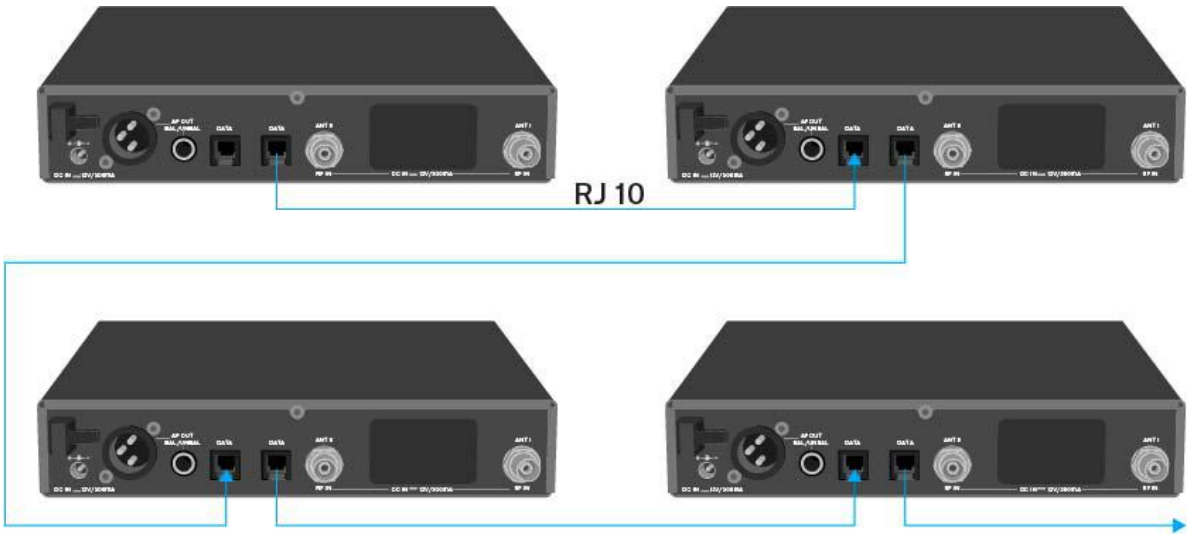
Creating a data network

You can cascade multiple EM 100 G4s to a multi-channel system using the two **DATA** RJ-10 interfaces (up to 12 receivers). You can perform a frequency setup for the entire multi-channel system via this data network using the **Easy Setup** function.

The setup only works when all of the receivers have the same frequency range.

▹ Connect the receivers to create a multi-channel system using the supplied RJ-10 cables as shown in the diagram.

Both RJ-10 sockets are interchangeable. There is no set order for cabling.



You can find more information about the **Easy Setup** function under “Easy Setup menu item”.

Setting up a multi-channel system with more than 12 receivers

You can use the **Easy Setup** function to automatically set up a maximum of **12** receivers.

If you assign the frequencies manually, however, you can use up to **20** receivers in a multi-channel system (not possible in the TH, JB, K+ and 1G8 frequency ranges).

- ▹ To do so, set a frequency manually in each receiver (see “Advanced -> Tune menu item”).
- ▹ Use the frequencies from the following table.

	Frequency Ranges								
Channel	A1	A	AS	G	GB	B	C	D	E
1	470.100	518.200	530.100	566.200	606.500	626.200	742.200	790.200	830.200
2	470.500	518.700	530.800	566.600	606.875	626.600	742.600	790.600	830.600
3	471.050	519.650	531.650	567.200	607.325	627.200	743.150	791.200	831.200
4	471.750	520.450	532.050	568.000	607.850	628.400	743.850	792.000	832.000
5	472.200	520.900	533.050	569.200	608.250	629.800	744.300	793.200	833.200
6	472.800	521.600	533.550	571.600	608.725	631.400	744.900	795.600	834.800
7	473.650	522.000	534.850	573.800	609.275	632.200	750.200	797.800	838.600
8	474.750	522.900	535.750	572.900	609.900	634.200	750.700	796.900	839.900
9	475.250	524.750	536.850	568.475	610.400	637.600	751.550	792.475	842.600
10	506.150	526.350	537.400	570.125	611.150	632.650	752.550	794.125	843.100
11	506.950	526.900	538.200	570.575	612.200	633.550	753.950	794.575	844.800
12	511.000	527.750	539.250	572.475	612.775	635.300	754.750	796.475	845.500
13	508.500	528.400	542.400	558.200	614.700	639.450	759.000	801.950	846.750
14	512.300	529.400	545.250	558.750	615.300	640.150	761.450	803.900	848.250
15	514.350	531.500	547.000	580.650	615.975	644.150	762.100	806.600	848.900
16	515.550	534.350	549.500	583.100	616.400	645.850	763.400	807.700	851.550
17	482.100	537.700	552.900	585.800	617.975	647.300	765.000	810.350	857.000
18	482.750	541.950	554.350	587.750	620.425	647.800	765.900	817.900	858.050
19	484.100	547.350	555.000	591.800	622.600	653.550	770.550	819.500	862.750
20	485.000	550.300	555.950	594.300	623.600	656.600	775.050		864.300

Outputting audio signals

The EM 100 G4 has a balanced XLR-3M output socket and an unbalanced 6.3 mm jack output socket.

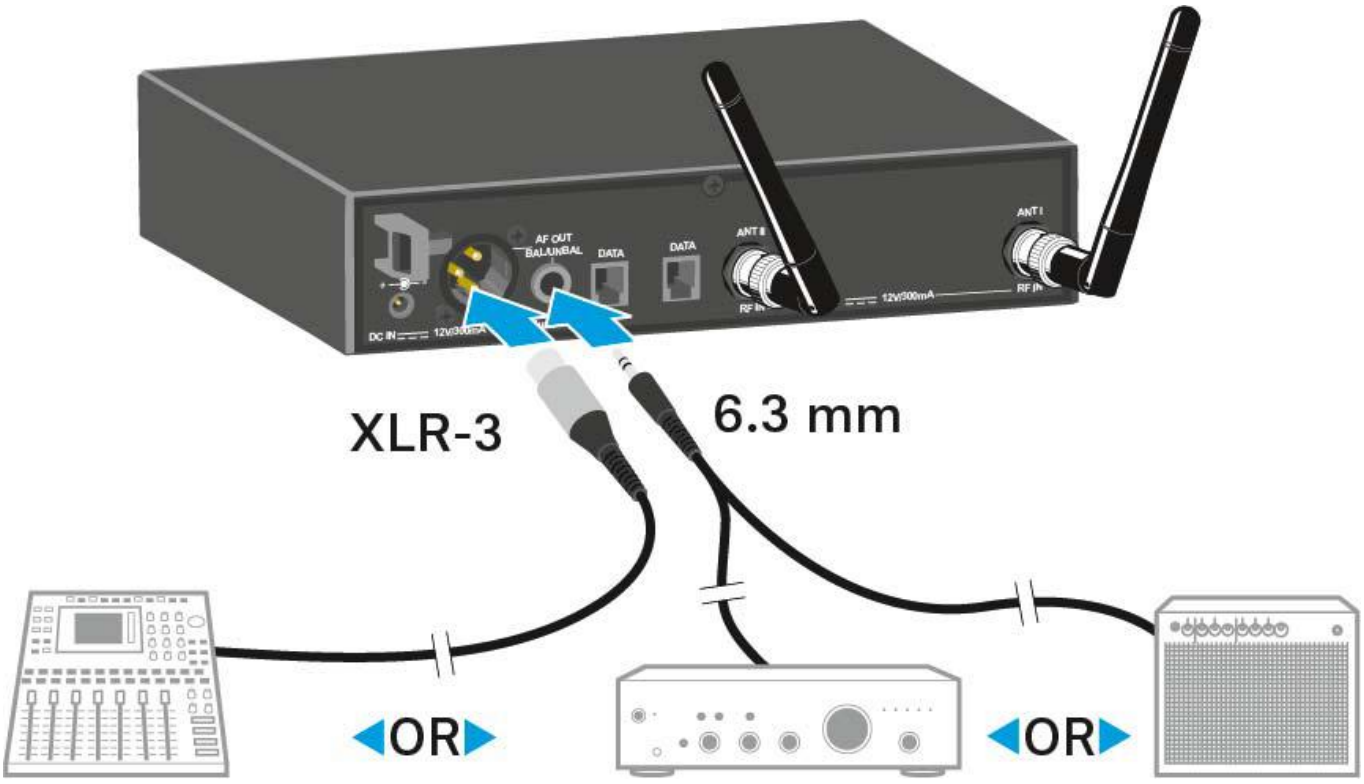
▹ Always use only one of the two **AF OUT** output sockets for each channel.

To connect an XLR cable:

▹ Plug the XLR cable into the **AF OUT BAL** socket of the EM 100 G4.

To connect a jack cable:

▹ Plug the jack cable into the **AF OUT UNBAL** socket of the EM 100 G4.



Connecting antennas

To connect the supplied rod antennas:

- ▹ Connect the first rod antenna to the **ANT I** socket on the rear side of the EM 100 G4.
- ▹ Connect the second rod antenna to the **ANT II** socket on the rear side of the EM 100 G4.
- ▹ Gently angle the rod antennas to the left and right as shown in the figure.

If you are using more than one receiver, we recommend using remote antennas and the ASA 214 antenna splitter. You can find more information here:

- “Installing the ASA 214”
- “Using the ASA 214”

Installing the EM 100 G4 in a rack

CAUTION

Rack mounting poses risks

When installing the device in a closed or multi-rack assembly, please consider that, during operation, the ambient temperature, the mechanical loading and the electrical potentials will be different from those of devices which are not mounted into a rack.

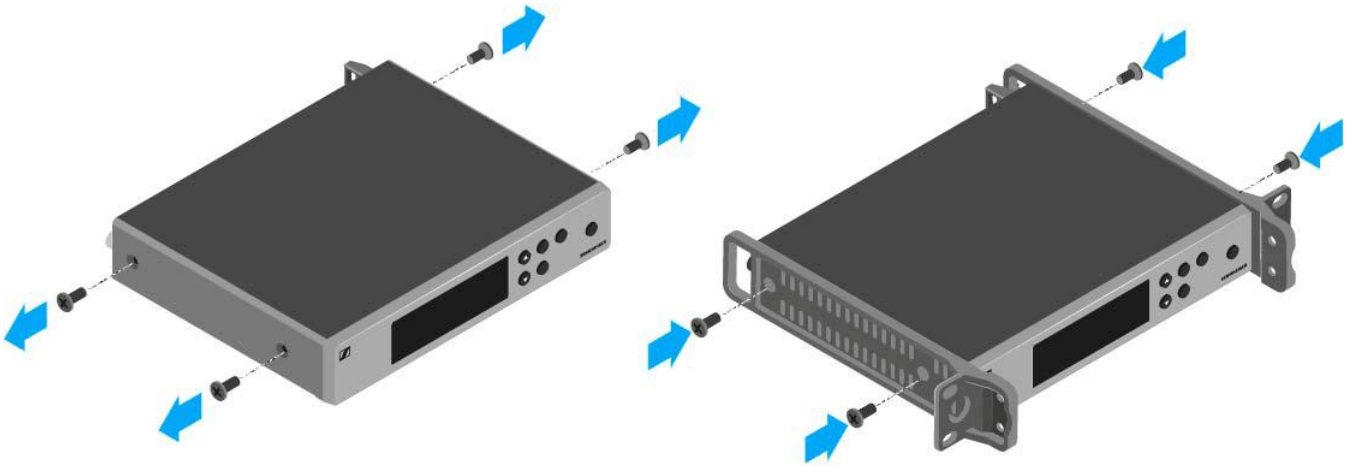
- ▹ Make sure that the ambient temperature within the rack does not exceed the permissible temperature limit specified in the specifications. See “EM 100 G4”.
- ▹ Ensure sufficient ventilation; if necessary, provide additional ventilation.
- ▹ Make sure that the mechanical loading of the rack is even.
- ▹ When connecting to the power supply system, observe the information indicated on the type plate. Avoid circuit overloading. If necessary, provide overcurrent protection.
- ▹ When rack mounting, please note that intrinsically harmless leakage currents of the individual power supply units may accumulate, thereby exceeding the allowable limit value. As a remedy, ground the rack via an additional ground connection.

Mounting a single receiver in a rack

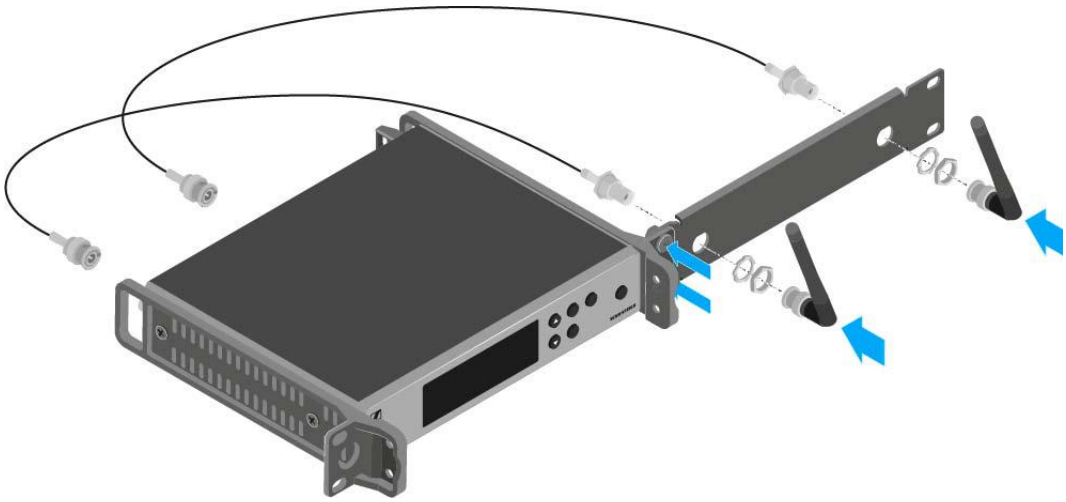
To mount the receiver in a rack, you will need the GA 3 rack mounting kit (optional accessory).

To fasten the mounting angle of the GA 3 rack mounting kit:

- ▹ Unscrew and remove the two recessed head screws (M4x8) on each side of the receiver.
- ▹ Secure both of the the mounting angles to the sides of the receiver using the previously removed recessed head screws.



- ▹ Secure the blanking plate to one of the mounting angles using two recessed head screws (M6x10).
- ▹ Attach the AM 2 antenna front mounting set (optional accessory) and mount the rod antennas on the blanking plate (right diagram).



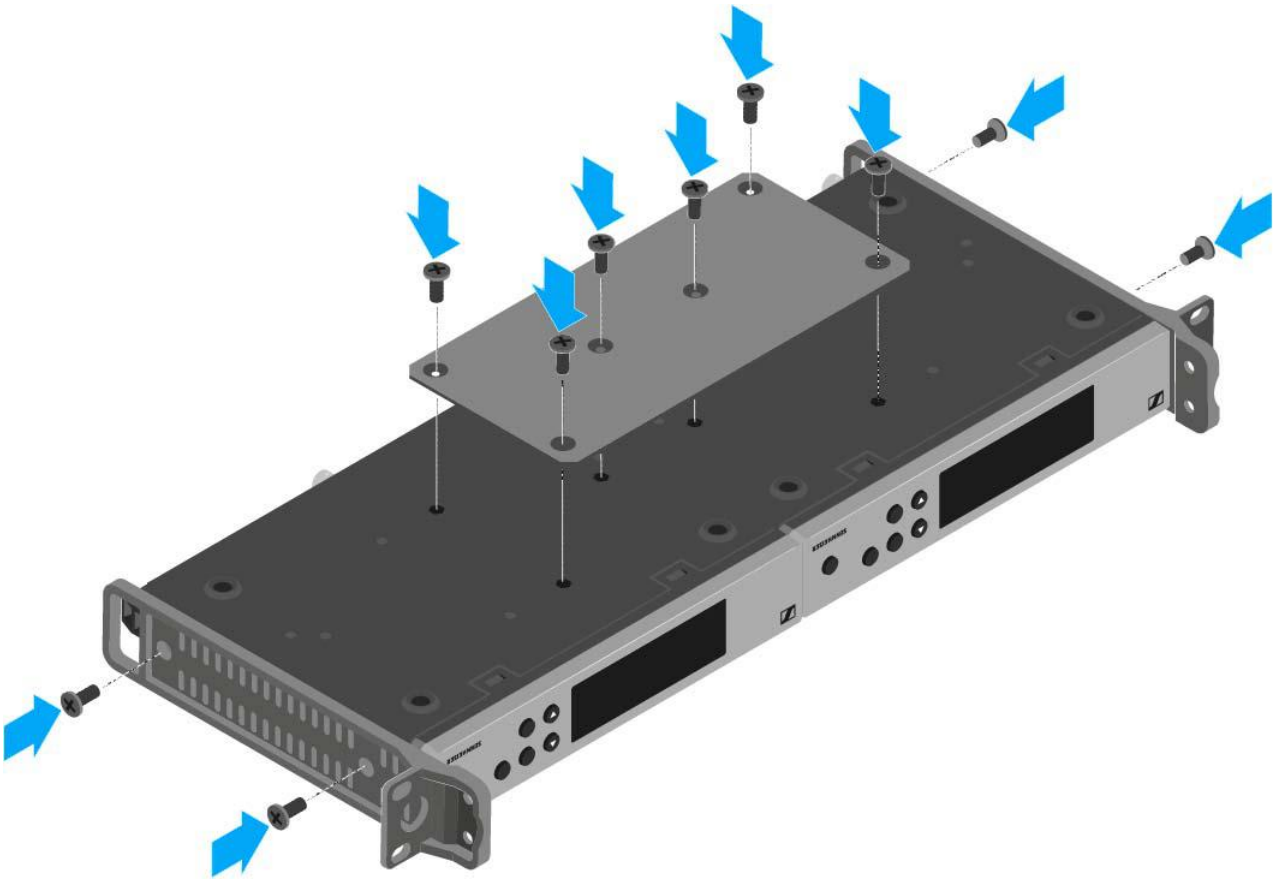
- ▹ Slide the receiver with the mounted blanking plate into the 19" rack.
- ▹ Secure the mounting angle and the blanking plate to the 19" rack.
- ▹ Align the mounted antennas in a V-shape.

Mounting two receivers side by side in a rack

When you mount two receivers side by side, it is only possible to front mount antennas when you use the ASA 214 antenna splitter in combination with the AM 2 front mounting kit and an additional GA 3 rack mounting kit,

To mount the receiver using the GA 3 rack mounting kit (optional accessory):

- ▹ Place both receivers upside down and side by side on an even surface.
- ▹ Secure the jointing plate to the transmitters using the six recessed head screws (M3x6).
- ▹ Secure the mounting angle.



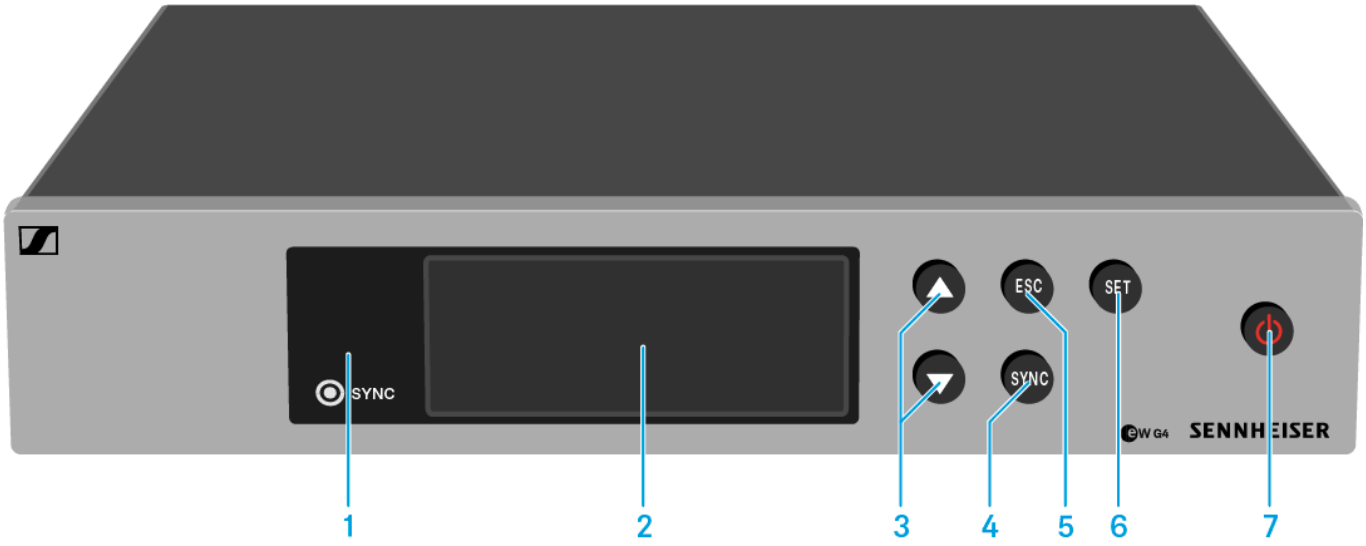
Using the EM 100 G4

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

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

Operating elements on the front of the device

Product overview for the front of the **EM 100 G4**



1 Infrared interface with a blue LED
- See “Synchronizing devices”

2 Display panel
- See “Displays on the EM 100 G4 display panel”

3 **UP/DOWN** buttons
- See “Buttons for navigating through the menu”

4 **SYNC** button
- See “Synchronizing devices”

5 **ESC** button
- See “Buttons for navigating through the menu”

6 **SET** button
- See “Buttons for navigating through the menu”

7 **STANDBY** button
- See “Switching the EM 100 G4 on and off”

Switching the EM 100 G4 on and off

To switch the receiver on:

▹ Short-press the **STANDBY** button.

The receiver switches on and the **Receiver Parameters** standard display appears.

To switch the receiver to standby mode:

▹ If necessary, deactivate the lock-off function (see “Lock-off function”).

▹ Press and hold the **STANDBY** button until OFF appears on the display panel.

The display panel switches off.

To completely switch the receiver off:

▹ Disconnect the receiver from the power supply system by unplugging the power supply unit from the wall socket.

Muting the audio output

To mute the audio signal of the receiver:

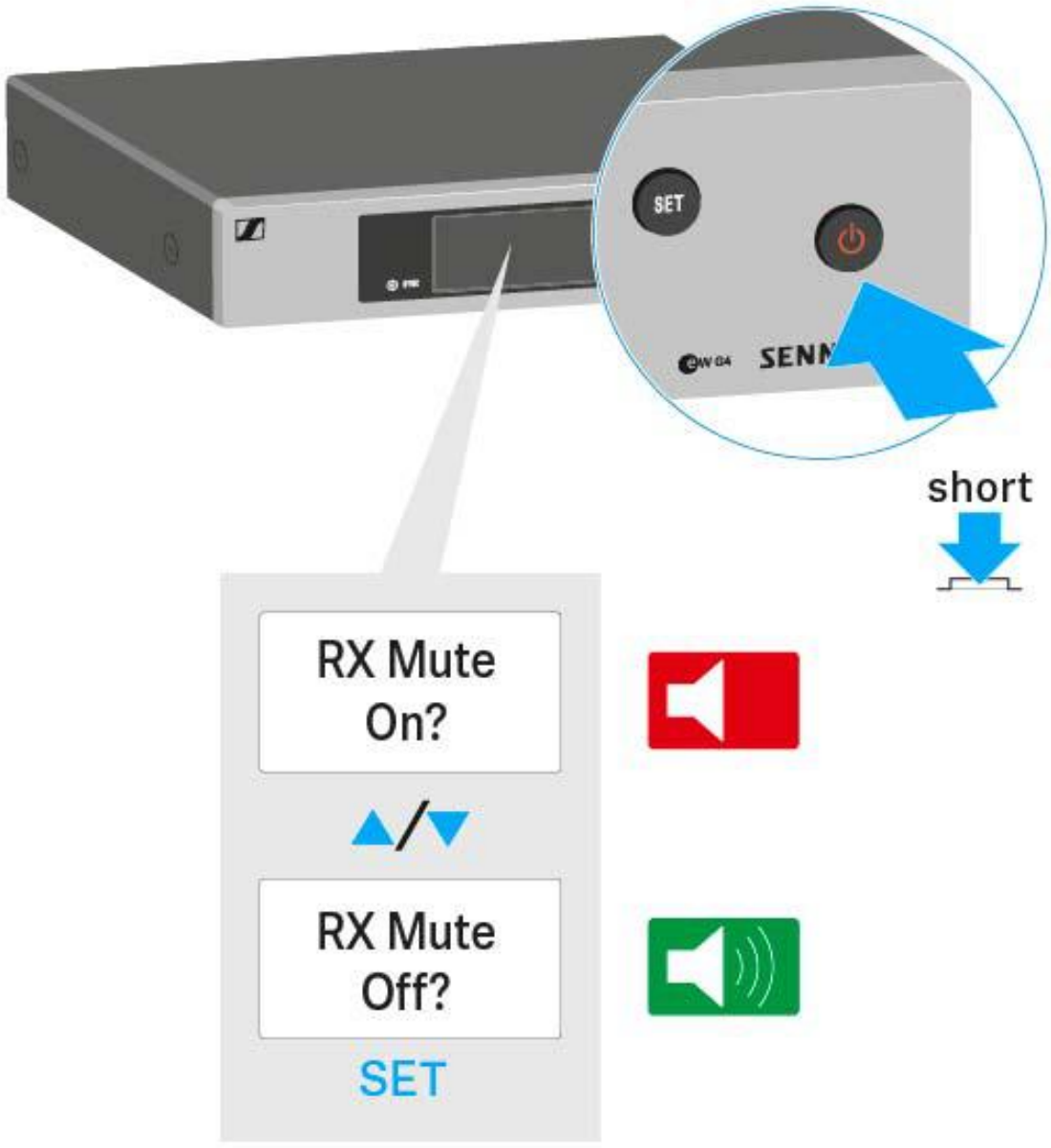
▹ Short-press the **STANDBY** button in one of the standard displays.
The RX Mute On? display appears.

▹ Press the **SET** button.
The audio signal is muted.

To cancel the muting:

▹ Short-press the **STANDBY** button.
The RX Mute Off? display appears.

▹ Press the **SET** button.
The audio output is no longer muted.



Lock-off function

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

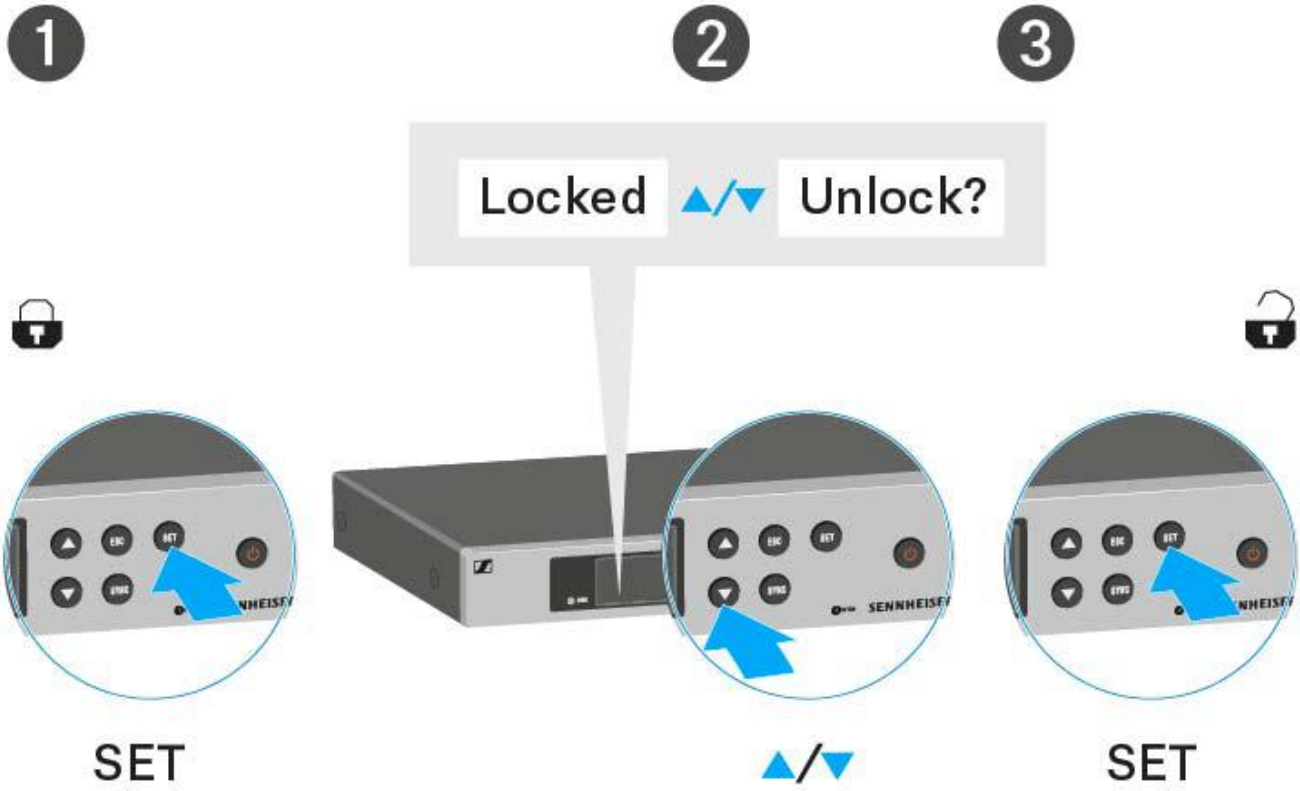
When you have switched on the lock-off function, you will have to turn the receiver off and on again in order to operate it.

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 EM 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.

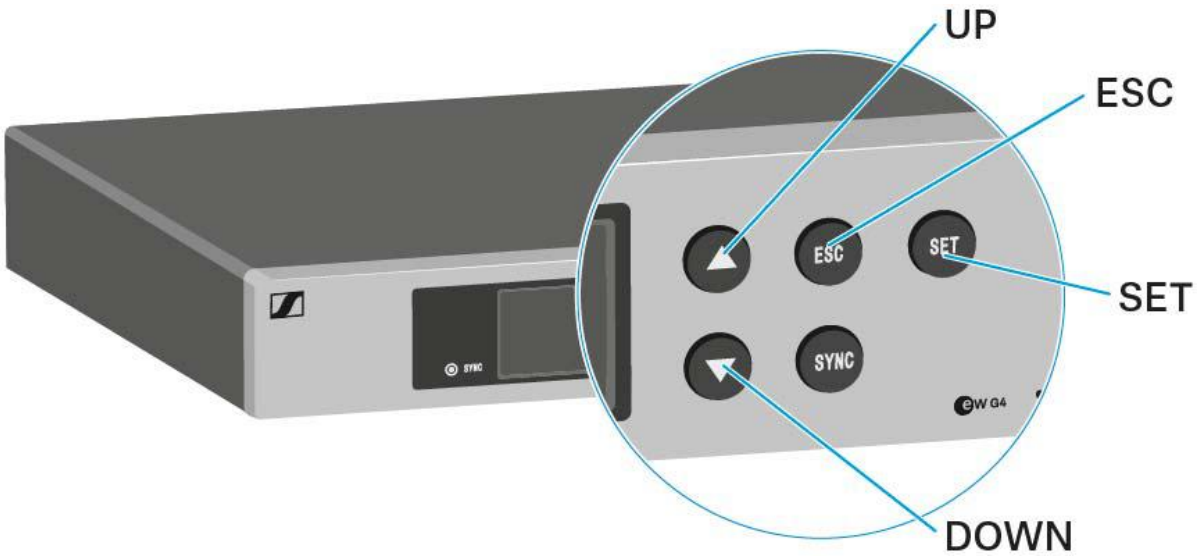
- See “Home screen”.

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 EM 100 G4 operating menu, you need the following buttons.



ESC

Short-press the **ESC** button

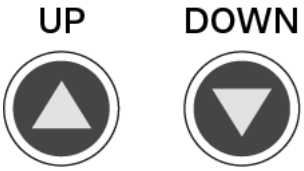
- Cancels the entry and returns to the previous display

Long-press the **ESC** button

- Cancels the entry and returns to the home screen

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

- Selects a standard display (see “Home screen”)
- Changes to the previous or next menu item
- Changes the setting of a menu item

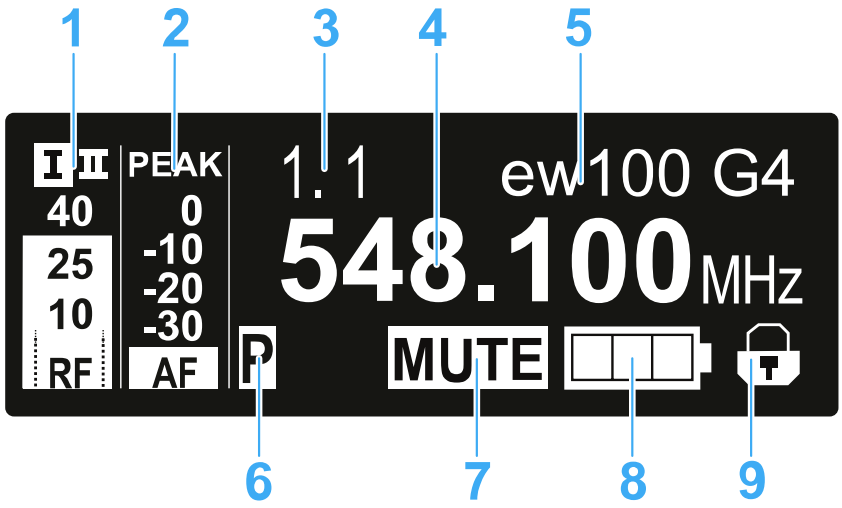
Home screen

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 three different standard displays.

▹ On the home screen, press the **UP** and **DOWN** buttons to switch between the standard displays.

Receiver Parameters standard display



1 **RF** 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. When the transmitter is overloaded frequently or for extended periods of time, the PEAK display is shown inverted.
- See “AF Out menu item”

3 Frequency bank and channel
- Current frequency bank and channel number
- See “Frequency Preset menu item”

4 Frequency
- Current receiving frequency
- See “Frequency Preset menu item”

5 Name
- Freely selectable name of the receiver
- See “Name menu item”

6 **P** pilot tone

- Activated pilot tone evaluation
- See “Advanced -> Pilot Tone menu item”

7 **MUTE** muting function

- Receiver or transmitter is muted
- See “Muting the audio output”

8 Battery status of the transmitter

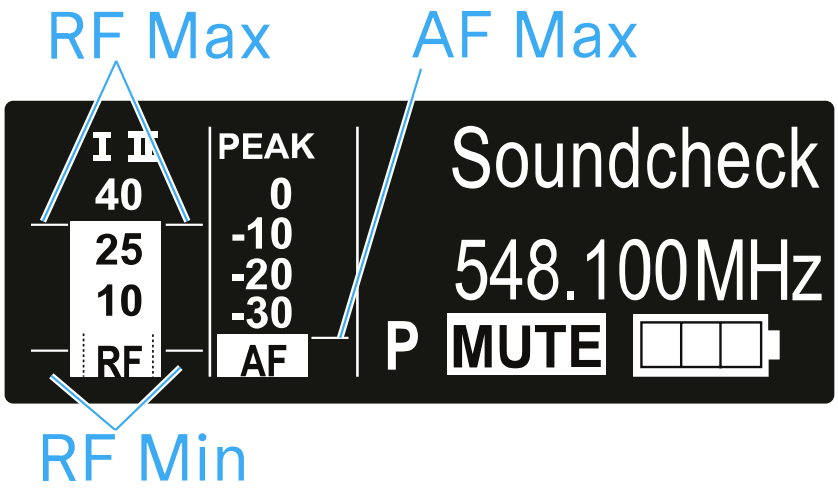
- SKM 100 G4: see “Inserting and removing the batteries/rechargeable batteries”
- SK 100 G4: see “Inserting and removing the batteries/rechargeable batteries”

9 Lock-off function

- Lock-off function is activated on the receiver
- See “Lock-off function”

Soundcheck standard display

The Soundcheck standard display shows the transmission quality between the transmitter and the receiver.



By doing a soundcheck, you can ensure adequate transmission quality in the entire area in which you want to use the transmitter. You can do the soundcheck without the help of another person.

▹ With the transmitter, walk up and down the area in which you want to use the transmitter.

The receiver records the following parameters:

RF Min

- Minimum RF signal level
- must be well above the squelch threshold level for one of the two antennas

Ways to optimize

▹ Check that the antennas and the antenna cables are correctly connected.

▹ Improve the position of the antennas.

▹ If necessary, use an antenna booster.

RF Max

- Maximum RF signal level
- both antennas should reach 40 dBµV

Ways to optimize

▹ Check that the antennas and the antenna cables are correctly connected.

▹ Improve the position of the antennas.

▹ If necessary, use an antenna booster.

AF Max

Maximum audio level

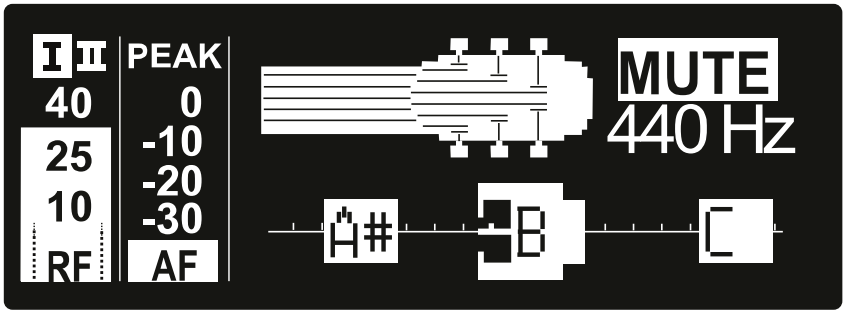
Ways to optimize

On your transmitter, adjust the audio level as high as possible without the display for the audio level showing full deflection (AF Max is at a level with the PEAK display).

See “AF Out menu item”.

Guitar Tuner standard display

The **Guitar Tuner** standard display shows the guitar tuner (only for the SK 100 G4).



The **Guitar Tuner** standard display is deactivated upon delivery. To show this standard display, you have to activate it (see “Advanced -> Guitar Tuner menu item”).

Setting options in the menu

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

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”

Adjusting the frequency response of the output signal

▹ See “Equalizer menu item”

Activate/deactivate the automatic lock-off function

▹ See “Auto Lock menu item”

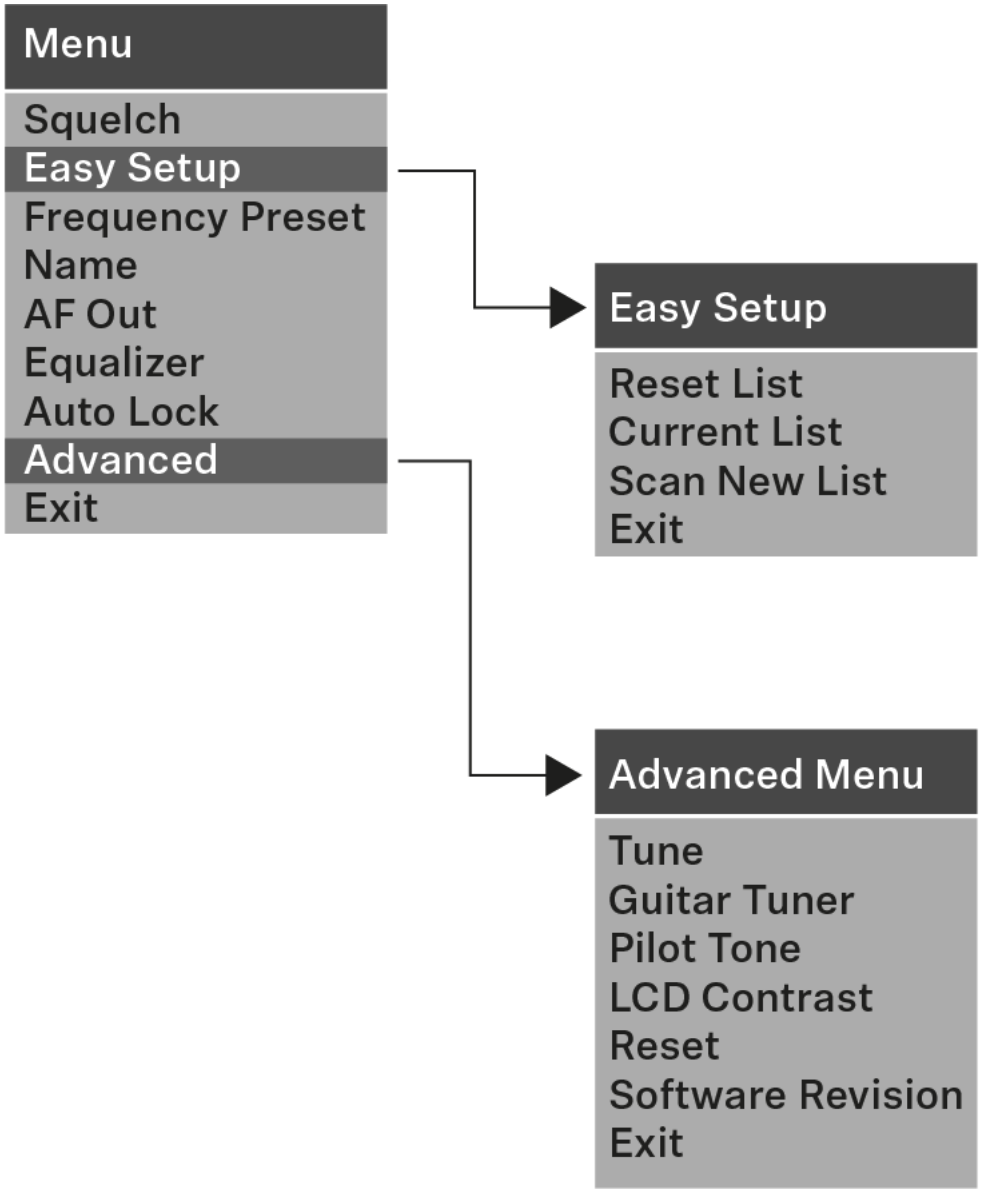
Configuring enhanced settings in the Advanced Menu:

- Adjusting the receiving frequencies for the U frequency bank
- Adjusting the guitar tuner options
- 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 EM 100 G4 menu structure in an overview.



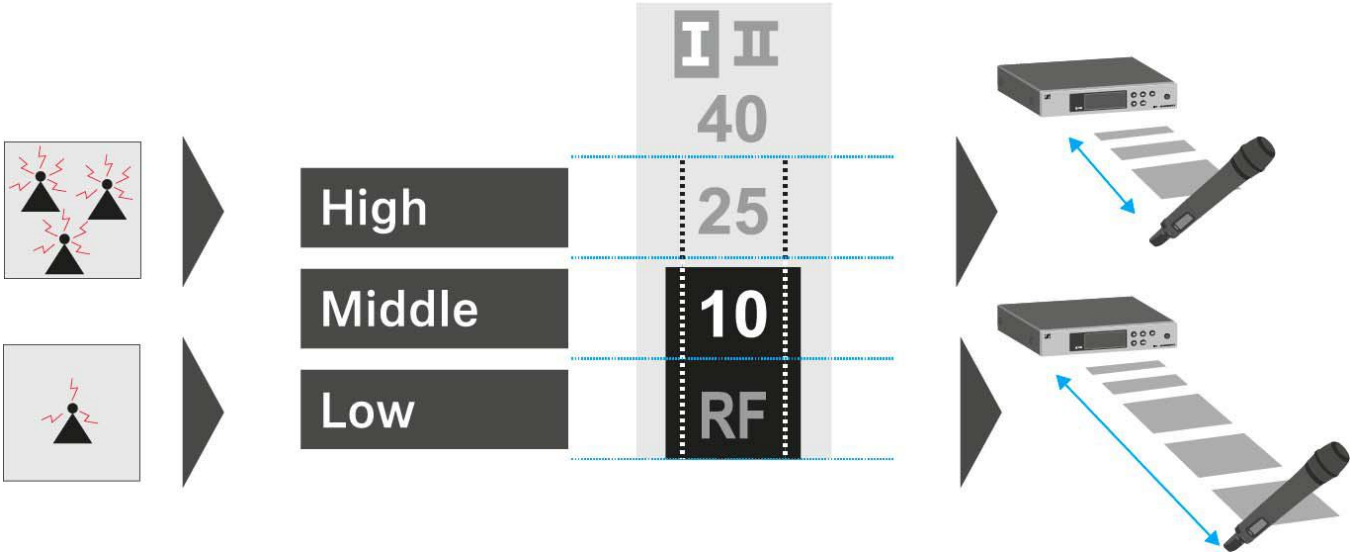
Squelch menu item

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

Setting range:

- Low >> 5 dBµV
- Middle >> 15 dBµV
- High >> 25 dBµV

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



CAUTION

Risk of hearing and material damage

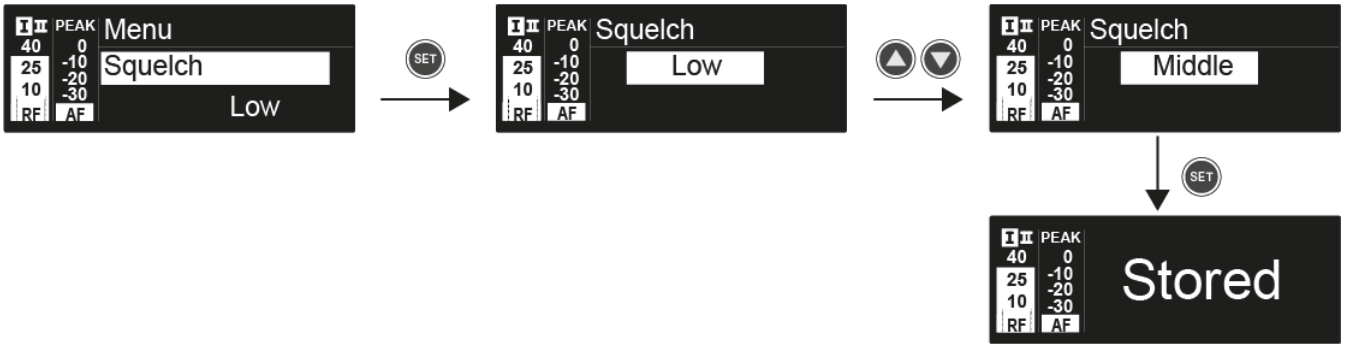
If you set the squelch threshold to a very low value, a very loud hissing noise can occur in the receiver. This hissing noise can be loud enough to cause hearing damage or overload your system's loudspeakers.

▹ Before adjusting the squelch threshold, set the volume of the audio output to the minimum.

▹ Never change the squelch threshold during a live transmission.

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 **ESC** button to cancel the entry without saving the setting.

Easy Setup menu item

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

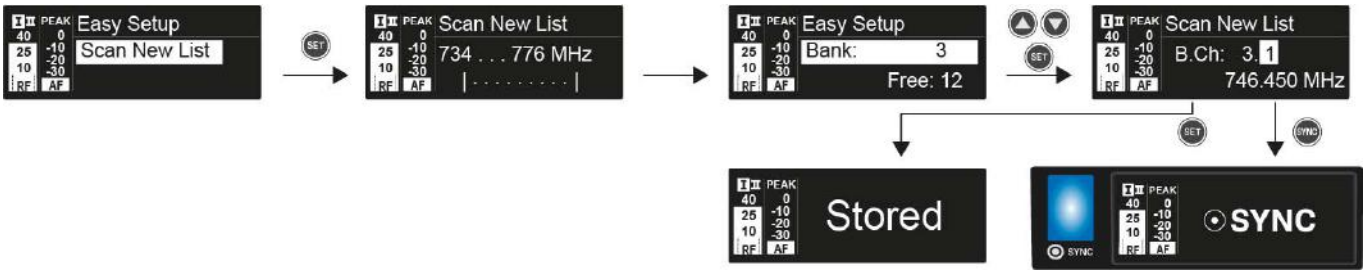
When you have connected multiple EM 100 G4 devices to a network via the RJ-10 interfaces (see “Creating a data network”), you can perform the frequency setup for all of the connected receivers. You can find more information about connecting multiple devices under “Performing multi-channel frequency setup”

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 used.

The squelch threshold setting influences the result. Set the squelch threshold to **Low** for as many frequencies as possible, and to **High** for as many safe frequencies as possible (see “Squelch menu item”).

To open the **Easy Setup** menu item:

- ▹ 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.



Scan New List

- ▹ Select **Scan New List** to scan for unused frequencies.
- ▹ Press the **SET** button to start the scan.

  The frequency range of the receiver is scanned. As a result, the number of unused frequencies is displayed for every frequency bank.
- ▹ Press the **UP** or **DOWN** buttons to select a frequency bank.
- ▹ Press the **SET** button to confirm your selection.
- ▹ Press the **UP** or **DOWN** buttons to select an unused frequency from the selected bank.

▹ Press the **SET** button to save your selection and synchronize the selected frequency with the transmitter at a later point (see “Synchronizing devices”).

or

▹ Press the **SYNC** button to synchronize the selected frequency with the transmitter immediately.

Current List

▹ Select **Current List** to show the list of unused frequencies from the last scan.

Reset

▹ Select **Reset List** to delete the list of unused frequencies.

Performing multi-channel frequency setup

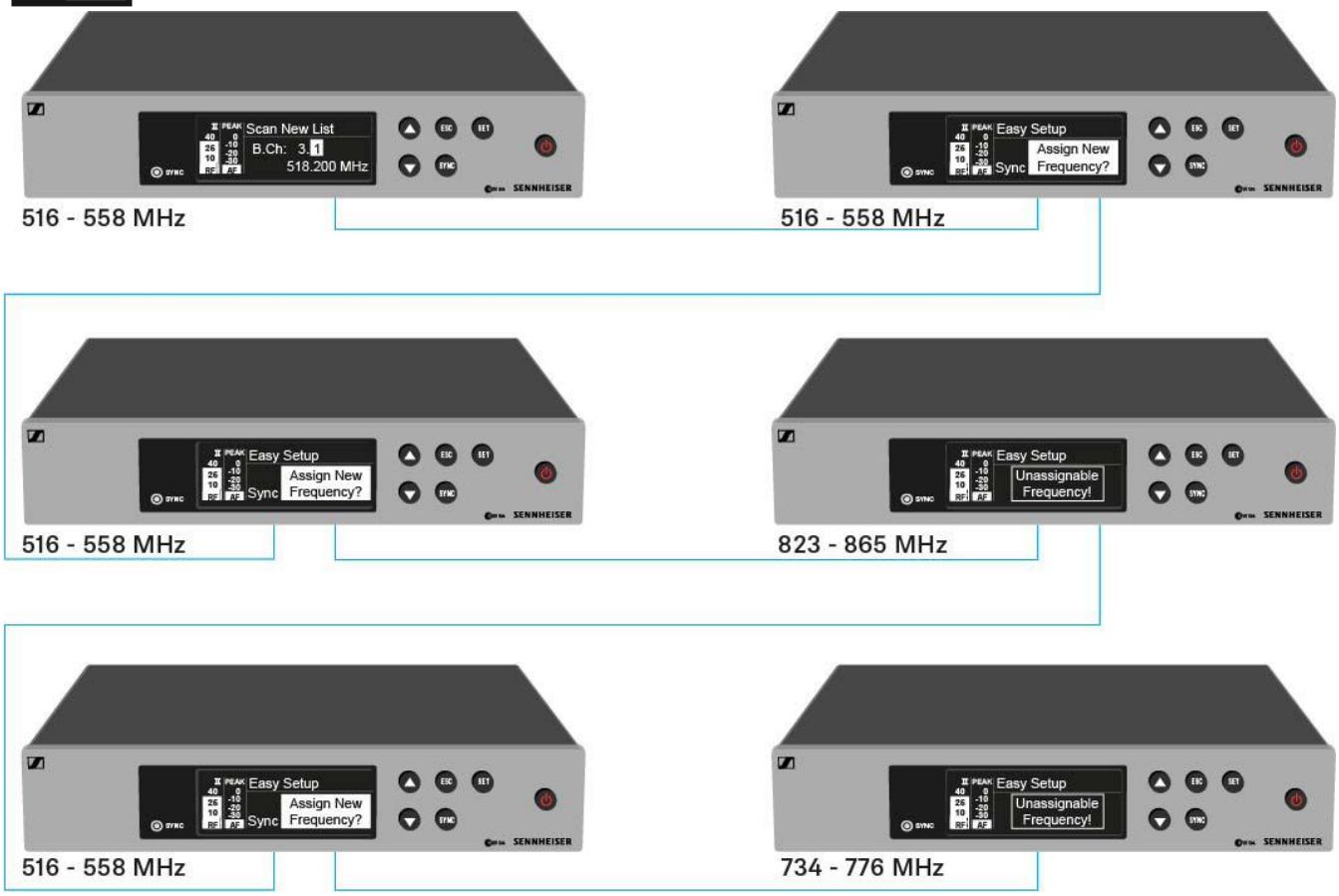
To perform the automatic frequency setup for multiple receivers (max. 12) simultaneously:

▹ Connect all of the receivers to one network.
See “Creating a data network”.

▹ Open the **Easy Setup** menu item on one of the receivers.
This receiver is the master. You can choose any receiver to be the master.

▹ Perform the frequency scan on the master receiver as described above.
After the scan, the display panels of the other receivers will display the message Assign New Frequency?.
Receivers with non-compatible frequency ranges will display the message Unassignable Frequency!.

▹ Select an unused frequency for the first receiver on the master receiver.
▹ Press the **SET** button on the receiver that you would like to assign this frequency to.
▹ Use this procedure to assign a frequency to each connected receiver, one after another.
▹ For the last step, assign a frequency to the master receiver.
This completes the multi-channel frequency setup.


Scan New List
B.Ch: 3.1
518.200 MHz
Easy Setup
Assign New Frequency?
Sync
Unassignable Frequency!
516 - 558 MHz
516 - 558 MHz
516 - 558 MHz
823 - 865 MHz
516 - 558 MHz
734 - 776 MHz

Setting up a multi-channel system with more than 12 receivers

You can use the **Easy Setup** function to automatically set up a maximum of **12** receivers.

If you assign the frequencies manually, however, you can use up to **20** receivers in a multi-channel system (not possible in the JB, K+ and 1G8 frequency ranges).

- ▹ To do so, set a frequency manually in each receiver (see “Advanced -> Tune menu item”).
- ▹ Use the frequencies from the following table.

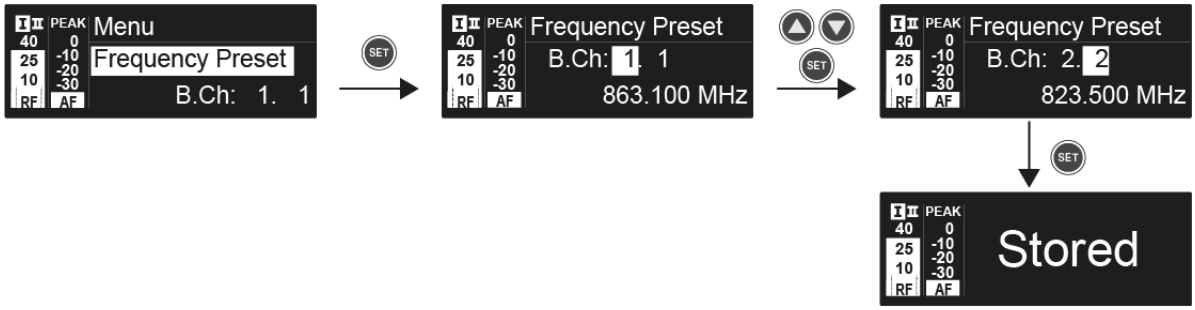
	Frequency Ranges								
Channel	A1	A	AS	G	GB	B	C	D	E
1	470.100	518.200	530.100	566.200	606.500	626.200	742.200	790.200	830.200
2	470.500	518.700	530.800	566.600	606.875	626.600	742.600	790.600	830.600
3	471.050	519.650	531.650	567.200	607.325	627.200	743.150	791.200	831.200
4	471.750	520.450	532.050	568.000	607.850	628.400	743.850	792.000	832.000
5	472.200	520.900	533.050	569.200	608.250	629.800	744.300	793.200	833.200
6	472.800	521.600	533.550	571.600	608.725	631.400	744.900	795.600	834.800
7	473.650	522.000	534.850	573.800	609.275	632.200	750.200	797.800	838.600
8	474.750	522.900	535.750	572.900	609.900	634.200	750.700	796.900	839.900
9	475.250	524.750	536.850	568.475	610.400	637.600	751.550	792.475	842.600
10	506.150	526.350	537.400	570.125	611.150	632.650	752.550	794.125	843.100
11	506.950	526.900	538.200	570.575	612.200	633.550	753.950	794.575	844.800
12	511.000	527.750	539.250	572.475	612.775	635.300	754.750	796.475	845.500
13	508.500	528.400	542.400	558.200	614.700	639.450	759.000	801.950	846.750
14	512.300	529.400	545.250	558.750	615.300	640.150	761.450	803.900	848.250
15	514.350	531.500	547.000	580.650	615.975	644.150	762.100	806.600	848.900
16	515.550	534.350	549.500	583.100	616.400	645.850	763.400	807.700	851.550
17	482.100	537.700	552.900	585.800	617.975	647.300	765.000	810.350	857.000
18	482.750	541.950	554.350	587.750	620.425	647.800	765.900	817.900	858.050
19	484.100	547.350	555.000	591.800	622.600	653.550	770.550	819.500	862.750
20	485.000	550.300	555.950	594.300	623.600	656.600	775.050		864.300

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 **ESC** button to cancel the entry without saving the setting.

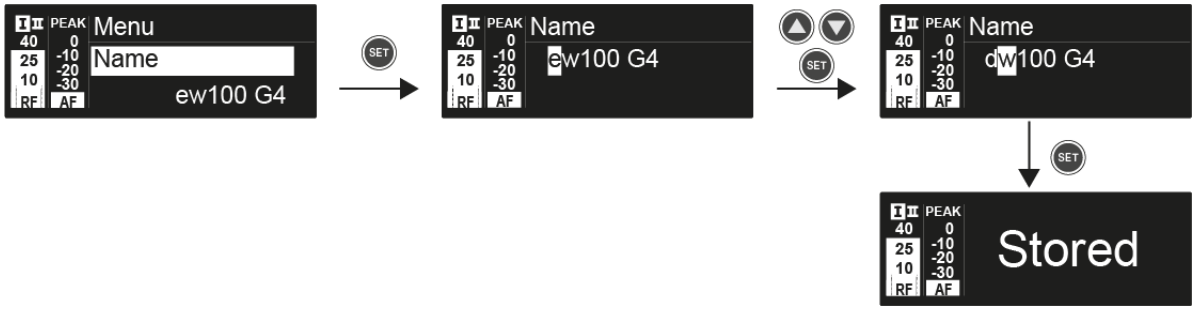
You can set the frequencies of the frequency bank **U** here: “Advanced -> Tune menu item”

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 **ESC** button to cancel the entry without saving the setting.

AF Out menu item

In the **AF Out** menu item, you can set the audio level that is output via the receiver audio outputs.

Setting range:

- –24 dB to +18 dB in 3 dB steps

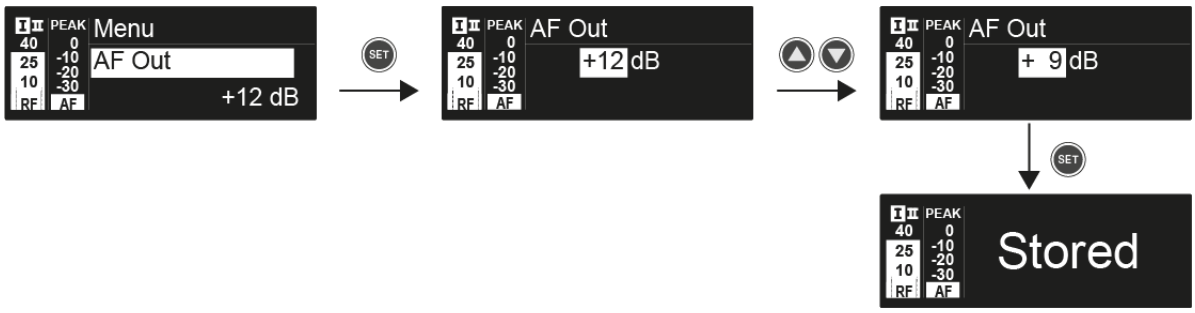
To open the **AF Out** menu item:

▹ 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

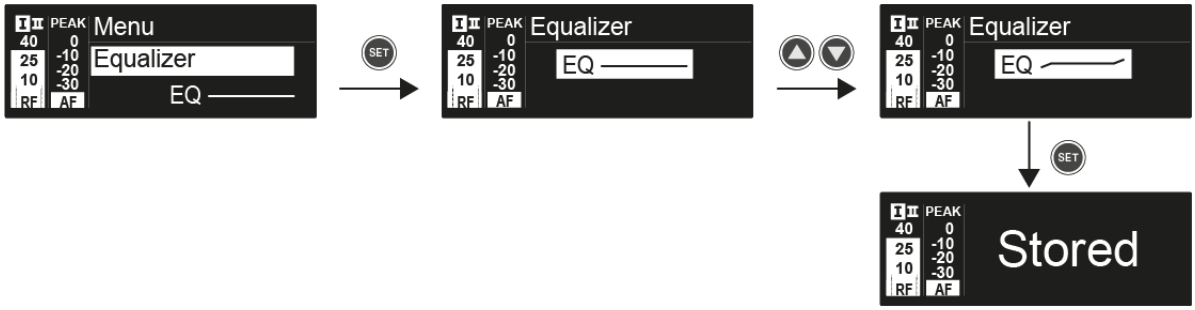
▹ Press the **ESC** button to cancel the entry without saving the setting.

Equalizer menu item

In the **Equalizer** menu item, you can change the frequency response of the output signal. You can reduce the bass range and boost the treble range.

To open the **Equalizer** menu item:

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



- ▹ Press the **UP** or **DOWN** buttons to configure the desired settings.
- ▹ Press the **SET** button to save the changes you made to the settings.

  or
- ▹ Press the **ESC** button to cancel the entry without saving the setting.

Auto Lock menu item

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

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 **ESC** button to cancel the entry without saving the setting.

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 frequencies for the U frequency bank

- ▹ See “Advanced -> Tune menu item”

Adjusting the guitar tuner options

- ▹ See “Advanced -> Guitar Tuner 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”

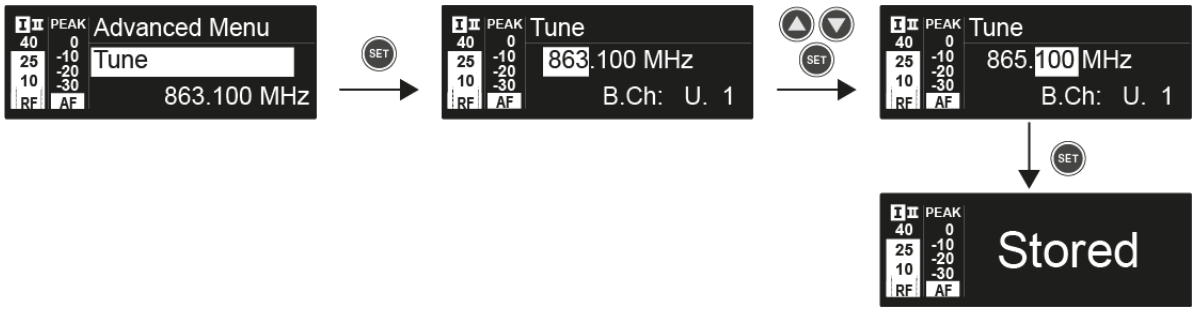
Advanced -> Tune menu item

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

You can save a total of 12 frequencies in the **U** frequency bank.

Only adjusting the frequency

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

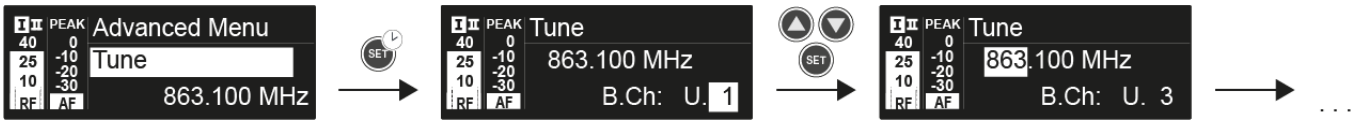


- ▹ Press the **SET** button to save the changes you made to the settings.

  or
- ▹ Press the **ESC** button to cancel the entry without saving the setting.

Setting the channel and frequency

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



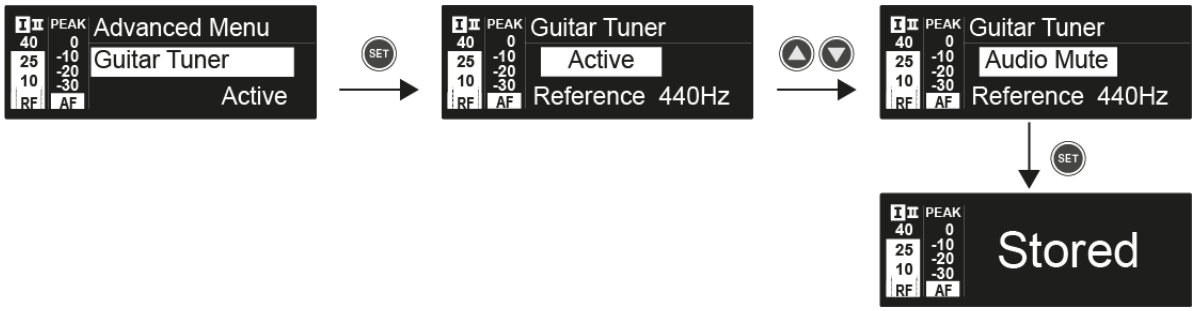
- ▹ Press the **SET** button to save the changes you made to the settings.

  or
- ▹ Press the **ESC** button to cancel the entry without saving the settings.

Advanced -> Guitar Tuner menu item

In the **Guitar Tuner** menu item of the **Advanced** submenu, you can adjust the options of the guitar tuner.

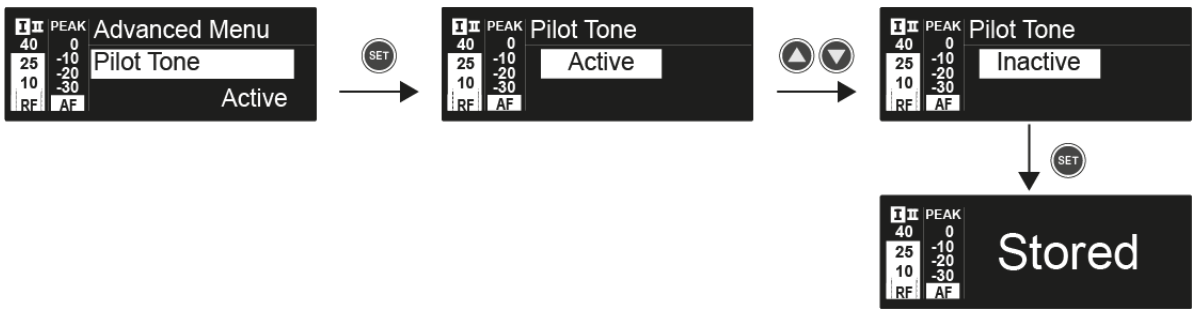
The guitar tuner is opened in the **Guitar Tuner** standard display on the home screen. See “**Guitar Tuner** standard display”.



- **Inactive**: The guitar tuner is deactivated.
- **Active**: The guitar tuner is activated.
- **Audio mute**: The guitar tuner is activated. Once the **Guitar Tuner** standard display is open on the home screen, the audio signal is muted.

Advanced -> Pilot Tone menu item

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

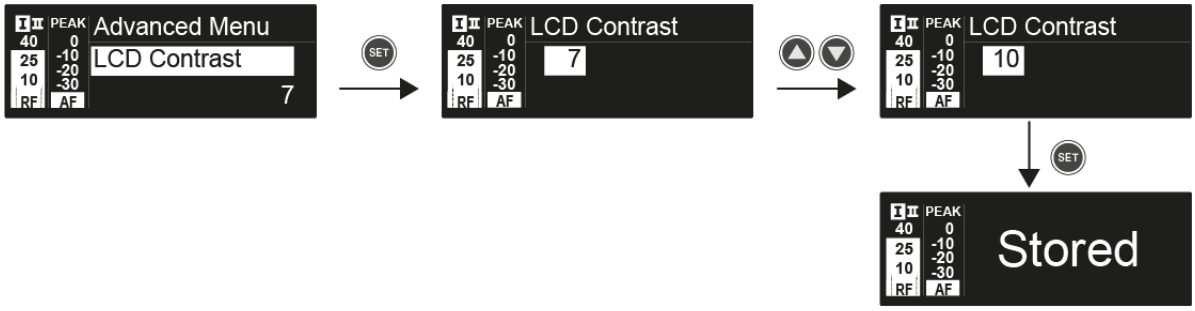


The pilot tone has an inaudible frequency that is sent from the transmitter and evaluated by the receiver. It supports the receiver’s squelch function.

For the best possible operational reliability, we recommend leaving the pilot tone activated.

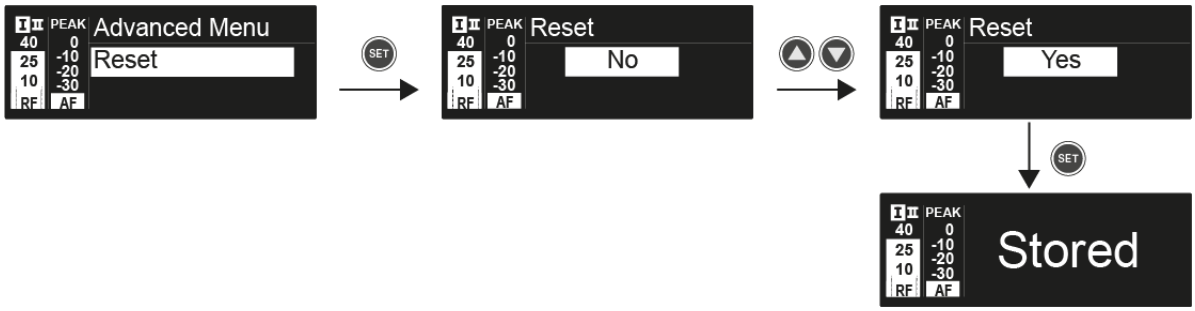
Advanced -> LCD Contrast menu item

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



Advanced -> Reset menu item

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



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.