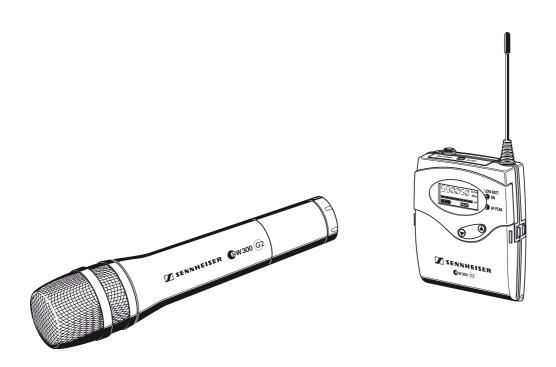
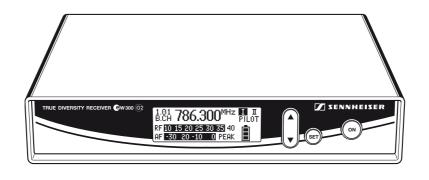


aW 300 **G**2

Instructions for use





Thank you for choosing Sennheiser!

We have designed this product to give you reliable operation over many years. Over sixty years of accumulated expertise in the design and manufacture of high-quality electro-acoustic equipment have made Sennheiser a world-leading company in this field.

Please take a few moments to read these instructions carefully, as we want you to enjoy your new Sennheiser products quickly and to the fullest.

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The evolution wireless series ew 300 G2

With the evolution wireless series ew 300 G2, Sennheiser offers musicians, video and sound amateurs high-quality state-of-the-art RF transmission systems with a high level of operational reliability and ease of use. Transmitters and receivers permit wireless transmission with studio-quality sound. The excellent transmission reliability of the ew 300 G2 series is based on the use of

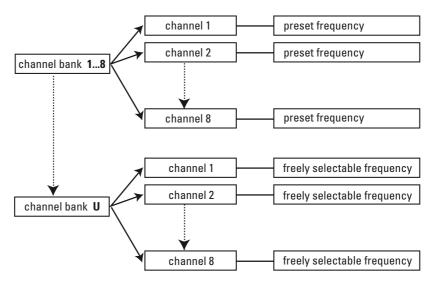
- further optimized PLL synthesizer and microprocessor technology,
- the HDX noise reduction system,
- the pilot tone squelch control,
- the true diversity technology (rack-mount receiver only),
- and the scan function for scanning the channel banks for free channels.

The channel bank system

The ew 300 G2 systems are available in five UHF frequency ranges with 1440 transmission/receiving frequencies per frequency range. Please note: Frequency usage is different for each country. Your Sennheiser agent will have all the necessary details on the available legal frequencies for your area.

Range A: 518 to 554 MHz
Range B: 626 to 662 MHz
Range C: 740 to 776 MHz
Range D: 786 to 822 MHz
Range E: 830 to 866 MHz

Transmitters and receivers have nine channel banks with eight switchable channels each.



The channel banks "1" to "8" have eight switchable channels that are factory-preset to a transmission/receiving frequency (see enclosed frequency table). These transmission/receiving frequencies cannot be changed but have been preset so that e.g. country-specific regulations on frequency usage are taken into account. The channel bank "U" (user bank) has eight switchable channels to store your selection out of 1440 transmission/receiving frequencies that are freely selectable within the preset frequency range.

An advantage of the factory-preset frequencies is that

- the systems are ready for immediate use after switch-on,
- several systems can be operated simultaneously on the preset channels without causing intermodulation interference.

Safety instructions

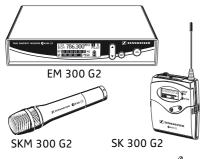
Never open electronic units! If units are opened by customers in breach of this instruction, the warranty becomes null and void.

Keep the units away from central heating radiators and electric heaters. Never expose them to direct sunlight.

Use the units in dry rooms only.

Use a damp cloth for cleaning the units. Do not use any cleansing agents or solvents.

System variants





Areas of application

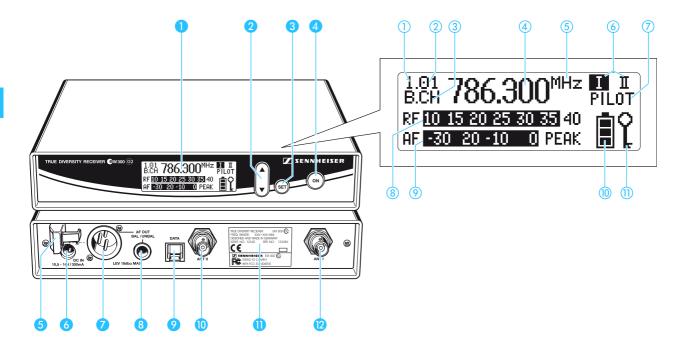
System	Areas of application
© w 312 © 2	Theater, presentation (omni-directional)
© w 322 © 2	Theater, presentation (high feedback rejection)
© w 352 © 2	Sports (aerobic), vocals
© w 372 © 2	Instruments
© w 335 © 2	Speech, vocals
© w 345 © 2	Vocals (high feedback rejection)
© w 365 © 2	Vocals, presentation (high feedback rejection)

Delivery includes

System	EM 300 G2	SK 300 G2	SKM 300 G2 with MD 835 mic head (dynamic, cardioid)	SKM 300 G2 with MD 845 mic head (dynamic, super-cardioid)	SKM 300 G2 with ME 865 mic head (condenser, super-cardioid)	ME 2 clip-on microphone (condenser, omni)	ME 3 headmic (condenser, super-cardioid)	ME 4 clip-on microphone (condenser, cardioid)	NT 2-1 mains unit	2 batteries	2 telescopic antennnas	Microphone clamp	Instrument cable	Instructions for use
⊚ w 312 © 2	Х	Х				Х			Χ	Χ	Х			Х
© w 322 © 2	Х	Х						Х	Χ	Χ	Х			Х
© w 352 © 2	Х	Х					Х		Х	Х	Х			Х
© w 372 © 2	Х	Х							Х	Х	Х		Х	Х
© w 335 © 2	Х		Х						Х	Х	Х	Х		Х
@ w 345 @ 2	Х			Х					Х	Х	Х	Х		Х
© w 365 © 2	Х				Х				Х	Х	Х	Х		Х

Overview of operating controls

EM 300 G2 rack-mount receiver



Operating controls

- Graphic display, backlit
- 2 ▼/▲ rocker button (DOWN/UP), backlit
- SET button, backlit
- ON button, backlit (serves as the ESC (cancel) key in the operating menu)
- **6** Cable grip for power supply DC cable
- 6 DC socket for connection of mains unit (DC IN)
- Audio output (AF OUT BAL), XLR-3M socket, balanced
- 3 Audio output (AF OUT UNBAL), 1/4" (6.3 mm) jack socket, unbalanced
- 9 Service interface (DATA)
- 10 Antenna input II (ANT II), BNC socket
- Type plate
- Antenna input I (ANT I), BNC socket

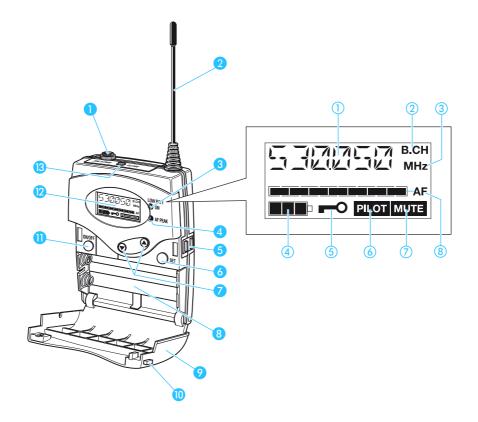
Graphic display panel

- ① Display for the current channel bank "1...8, U"
- 2 Display for the current channel number "1...8"
- (3) "B.CH" abbreviation for channel <u>B</u>ank and <u>CH</u>annel number
- 4 Alphanumeric display
- (5) "MHz" appears when the frequency is displayed
- Oiversity display (antenna I or antenna II active)
- "PILOT" display (pilot tone evaluation is activated)
- 8 Level display for received RF signal "RF"
- Level display for received audio signal "AF", with "PEAK" warning
- 10 4-step transmitter battery status display
- Lock mode icon (lock mode is activated)

Note:

For further illustrations and examples of the different standard displays, please refer to the section "Selecting the standard display" on page 32.

SK 300 G2 bodypack transmitter



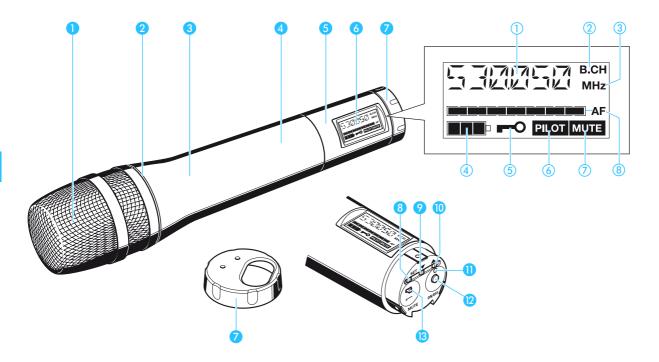
Operating controls

- Microphone/line input (MIC/LINE),3.5 mm jack socket
- 2 Antenna
- 3 Red LED for operation and battery status indication (ON/LOW BAT)
- 4 Yellow LED for audio peak (AF PEAK)
- 6 Charging contacts
- **6** SET button
- 8 Battery compartment
- Battery compartment cover
- Unlocking button
- ON/OFF button (serves as the ESC (cancel) key in the operating menu)
- LC display
- MUTE switch

LC display panel

- 1 Alphanumeric display
- ② "B.CH" appears when the channel bank and the channel number are displayed
- (3) "MHz" appears when the frequency is displayed
- 4 4-step battery status display
- (lock mode is activated)
- (bilot tone transmission is activated)
- "MUTE" display (audio input is muted)
- 8 7-step level display for audio signal "AF"

SKM 300 G2 radiomicrophone



Operating controls

- Sound inlet basket
- 2 Color-coded identification ring for microphone heads

green: MD 835 microphone head blue: MD 845 microphone head red: ME 865 microphone head

- 3 Body of radiomicrophone
- 4 Battery compartment (not visible from outside)
- 6 Display section
- 6 LC display
- 7 Turnable protective cap for operating controls (shown removed)

The following operating controls become accessible in turn by turning the protective cap:

- 8 SET button
- v button (DOWN)
- button (UP)
- Red LED for operation and battery status indication (ON/LOW BAT)
- ON/OFF button (serves as the ESC (cancel) key in the operating menu)
- MUTE switch

LC display panel

- Alphanumeric display
- ② "B.CH" appears when the channel bank and the channel number are displayed
- (3) "MHz" appears when the frequency is displayed
- 4-step battery status display
- (lock mode is activated)
- "PILOT" display (pilot tone transmission is activated)
- "MUTE" display (audio input is muted)
- 8 7-step level display for audio signal "AF"

Indications and displays on the receiver

LOW BAT

Transmitter battery status indication

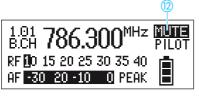
The 4-step transmitter battery status display 10 on the receiver display panel provides information on the transmitter's remaining battery/accupack BA 2015 capacity:

3 segments: capacity approx. 100 % 2 segments: capacity approx. 70 % 1 segment: capacity approx. 30 %

Battery icon flashing: LOW BAT

In addition, the text "LOW BAT" (backlit in red) flashes in alternation with the standard display.

"MUTE" display



The "MUTE" display ② appears on the display panel and the backlighting of the standard display switches from green to red. In addition, the text "MUTE" flashes in alternation with the standard display when

- the RF signal of the received transmitter is too weak,
- the received transmitter has been muted (with the pilot tone transmission or evaluation activated).

MUTE

Modulation display

The level display for audio signal "AF" shows the modulation of the received transmitter.

The level display for audio signal "AF" shows the modulation of the received transmitter.

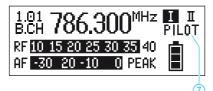
When the transmitter's audio input level is excessively high (AF peak), the receiver's level display for audio signal "AF" 9 shows full deflection.

When the transmitter is overmodulated frequently or for an extended period of time, the text "PEAK" (backlit in red) flashes in alternation with the

PEAK

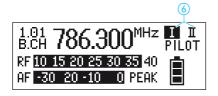
"PILOT" display

standard display.



The "PILOT" display 7 lights up when the pilot tone evaluation is activated (see "Activating/deactivating the pilot tone transmission or pilot tone evaluation" on page 33).

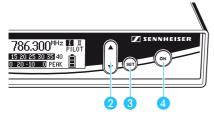
Diversity display



The EM 300 G2 receiver operates on the true diversity principle (see "Diversity reception" on page 39).

The diversity display (6) indicates whether diversity section I (i.e. antenna 1) or diversity section II (i.e. antenna 2) is active.

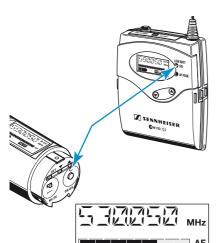
Button backlighting



In standby operation, the ON button ④ is backlit in red. When the receiver is switched on, the SET button ③ and the △/▼ button ② are additionally backlit in green.

Indications and displays on the transmitters

Operation and battery status indication



(4)

The red LED (LOW BAT/ON) provides information on the current operating state of the transmitter:

Red LED lit up: The transmitter is switched on and the capacity of the

batteries/accupack BA 2015 is sufficient.

Red LED flashing: The batteries are/the accupack BA 2015 is going flat

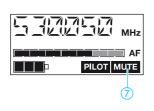
(LOW BAT)!

In addition, the 4-step battery status display 4 on the display panel provides information on the remaining battery/accupack BA 2015 capacity.

3 segments: capacity approx. 100 % 2 segments: capacity approx. 70 % 1 segment: capacity approx. 30 %

Battery icon flashing: LOW BAT

"MUTE" display



PILOT

The "MUTE" display 7 appears on the display panel when the transmitter is muted (see "Muting the transmitters" on page 19).

Modulation display



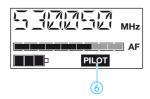
The level display for audio signal "AF" shows the modulation of the transmitter. When the transmitter's audio input level is excessively high, the level display for audio signal "AF" shows full deflection.



AF peak indication (SK 300 G2 only)

The yellow LED (AF PEAK) 4 at the front of the SK 300 G2 lights up when the audio input level is excessively high (AF peak) and overmodulates the transmitter. At the same time, the 7-step level display for audio signal "AF" shows full deflection for the duration of the overmodulation.

"PILOT" display



The "PILOT" display 6 lights up when the pilot tone evaluation is activated. (see "Activating/deactivating the pilot tone transmission or pilot tone evaluation" on page 33).

Display backlighting

After pressing a button, the display remains backlit for approx. 15 seconds.

Preparing the components for use

EM 300 G2 rack-mount receiver

Mounting the receiver feet

To ensure that the receiver cannot slip on the surface on which it is placed, four self-adhesive soft rubber feet are supplied.

- Ensure that the base of the receiver is clean before mounting the rubber feet.
- Fix the rubber feet to the base of the receiver by peeling of the safety paper and fitting them as shown in the digram on the left.

Attention!

Some furniture surfaces have been treated with varnish, polish or synthetics which might cause stains when they come into contact with other synthetics. Despite a thorough testing of the synthetics used by us, we cannot rule out the possibility of staining.

Connecting the antennas

The supplied telescopic antennas can be mounted quickly and easily to the rear of the receiver and are suitable for all applications where — good reception conditions provided — a wireless transmission system is to be used without a large amount of installation work.

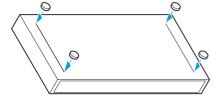
- Connect the telescopic antennas (3) to the BNC sockets (10) and (12) at the rear of the receiver.
- ▶ Pull the telescopic antennas out and align the upwards in a V-shape.

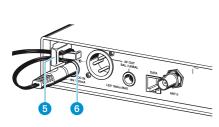
Use remote antennas when the receiver position is not the best antenna position for optimum reception. These are available as accessories.

Connecting the mains unit

The EM 300 G2 is powered via a mains unit.

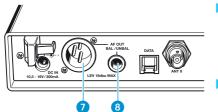
- Pass the cable through the cable grip 6.
- ▶ Insert the DC connector on the mains cable into the DC socket 6.





Connecting the amplifier/mixing console

The EM 300 G2's audio outputs are available as an XLR-3M socket 7 and a 1/4" (6.3 mm) jack socket 3, allowing you to simultaneously connect two units (e.g. amplifier, mixing console). The adjusted audio output level is common for both sockets.

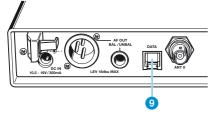


Connect the amplifier/mixing console to the XLR-3M socket 7 or the 1/4" (6.3 mm) jack socket 8.

For detailed information on balanced and unbalanced connection, please refer to the section "onnector assignment" on page 41.

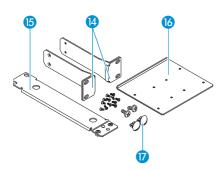
➤ Via the operating menu, adapt the level of the audio output (AF OUT) to the input of the amplifier or mixing console (see "Adjusting the audio output level (EM 300 G2 only)" on page 31).

Service interface



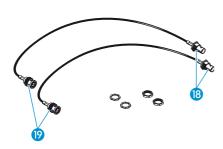
The service interface 9 is only required for servicing purposes.

19" rack adapter and antenna mount



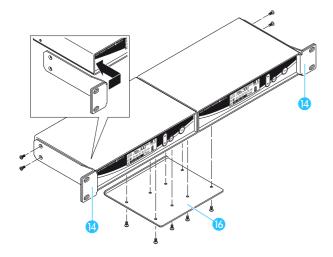
For mounting one or two receivers into a 19" rack, you require the GA 2 rack adapter (available as an accessory). The GA 2 rack adapter consists of:

- 2 rack mount "ears" (4)
- 1 connecting bar (5)
- 1 connecting plate (6)
- 2 covering plugs (7) for antenna holes
- 12 recessed head screws M 3x6
- 2 recessed head screws M 6x10



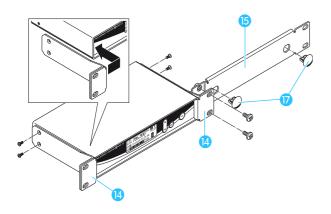
When mounting only one receiver into a rack, you can use the AM 2 antenna mount (available as an accessory) to mount the transmitter's antenna connection to the front of the GA 2 rack adapter. The AM 2 antenna mount consists of:

- 2 BNC extension cables (screw-in BNC socket 18 to BNC connector 19)
- · 2 plains washers
- 2 nuts



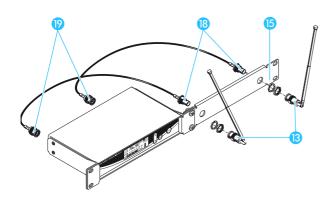


- Place the two receivers side by side onto a flat surface, their bottom sides facing upwards.
- Align the connecting plate 6 over the holes in the bottom sides of the receivers.
- Secure the connecting plate 6 to the receivers using eight of the supplied recessed head screws (M 3x6).
- ► Hook the two rack mount "ears" (4) to the front panels of the receivers.
- Secure the rack mount "ears" to the receivers using two of the supplied recessed head screws (M 3x6) respectively.
- ▶ Slide the receivers into a 19" rack.
- Screw the rack mount "ears" tight.



When mounting only one receiver into a rack, use the connecting bar (5) instead of the second receiver.

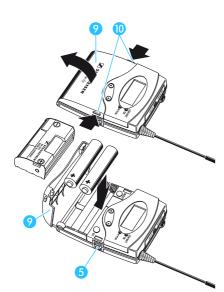
- ► Hook the two rack mount "ears" <a>1
 Ito the front panel of the receiver.
- Secure the rack mount "ears" to the receiver using two of the supplied recessed head screws (M 3x6) respectively.
- Secure the connecting bar 15 to one of the rack mount "ears" 14 using two of the supplied recessed head screws (M 6x10).
- If you are not front mounting the antennas, insert the two covering plugs (7) into the antenna holes of the connecting bar.
- ➤ Slide the receiver into a 19" rack and screw the rack mount "ears" tight.



To mount the receiver's antenna connection to the front of the GA 2 rack adapter using the AM 2 antenna mount:

- Screw the two BNC sockets 13 of the BNC extension cables to the connecting bar 15 using the supplied plain washers and nuts.
- Connect the two BNC connectors (9) to the BNC sockets (10) and (12) at the rear of the receiver.
- Slide the receiver into a 19" rack.
- Screw the rack mount "ears" tight.
- Connect the two telescopic antennas (3) to the two BNC sockets (3).
- Pull the telescopic antennas out and align them upwards in a V-shape.

SK 300 G2 bodypack transmitter



Inserting and replacing the batteries

For powering the SK 300 G2 bodypack transmitter, use two 1.5 V AA size batteries.

- Press the two unlocking buttons 10 and open the battery compartment cover 9.
- Insert the two batteries as shown in the diagram on the left. Please observe correct polarity when inserting the batteries.
- Close the battery compartment. The battery compartment cover 9 locks into place with an audible click.

Inserting and charging the accupack

The bodypack transmitter can also be powered via the rechargeable Sennheiser BA 2015 accupack. Insert the accupack into the battery compartment as described above.

The transmitter has two charging contacts 5 and a sensing contact on its short sides. The accupack can be recharged while remaining in the transmitter. Insert the transmitter into the L 2015 charger (see operating manual of the L 2015 charger).

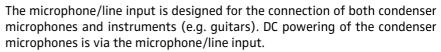
Note:

For accupack operation of the transmitter, only use the BA 2015 accupack In order to ensure optimum operational reliability. For charging the accupack, only use the L 2015 charger. Both the accupack and the charger are available as accessories.

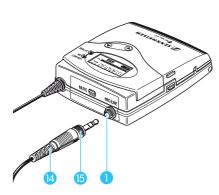
The accupack is fitted with an integrated sensor which is – via a third contact – monitored by the electronics of the transmitter and the charger. The sensor is necessary for the following control purposes:

- The taking into account of the different voltage characteristics of primary cells (batteries) and accupacks. The battery status indications on the displays, the transmission of transmitter battery status information to the rack-mount receivers and the switch-off thresholds at the end of the operating time are corrected correspondingly. Due to the missing sensor, individual rechargeable battery cells will not be identified as accupacks.
- The monitoring of the accupack temperature during charging in the L 2015 charger.
- The prevention of improper charging of inserted primary cells (batteries). Due to the missing sensor, individual rechargeable battery cells will also not be charged in the L 2015 charger.

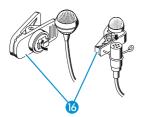
Connecting the microphone/line cable



- Connect the 3.5 mm jack plug [4] from the microphone/line cable to the 3.5 mm jack socket (MIC/LINE) 1.
- Lock the 3.5 mm jack plug by screwing down the coupling ring (5).
- Via the operating menu, adjust the sensitivity of the microphone/line input (see "Adjusting the sensitivity (transmitters only)" on page 30).







- Use the microphone clips 13 to attach the ME 2 and ME 4 clip-on microphones to clothing (e.g. tie, lapel).
- Adjust the ME 3 headmic so that a comfortable and secure fit is ensured.



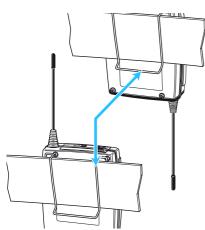
Positioning the microphones

The ME 3 and ME 4 microphones are directional microphones, i.e. their sound inlet should always be directed towards the sound source (e.g. mouth).

The ME 2 with omni-directional pick-up pattern picks up sound equally from all directions. It is the best choice if movements of the speaker's head have to be compensated for. However, it should be attached as close as possible to the sound source.

Adjust the sensitivity correctly for all microphones/usages (see "Adjusting the sensitivity (transmitters only)" on page 30).





The bodypack transmitter is attached to clothing (e.g. belt, waistband) with the supplied belt clip.

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

The BPP 1 bodypack pouch (available as an accessory) helps to protect the bodypack transmitter against moisture.

SKM 300 G2 radiomicrophone



For powering the SKM 300 G2 radiomicrophone, you can either use two 1.5 V AA size batteries or the rechargeable Sennheiser BA 2015 accupack.

- Unscrew the display section 6 from the radiomicrophone's body 8 by turning it counterclockwise.
- Slide back the display section 5 as far as it will go.
- Open the battery compartment cover (4).
- Insert the two batteries or the BA 2015 accupack as shown in the diagram on the left. Please observe correct polarity when inserting the batteries/accupack.
- Close the battery compartment cover (4).
- Push the battery compartment into the radiomicrophone's body.
- Screw the display section tight.

Note:

For important informations on charging the accupack see "Inserting and replacing the batteries" on page 15.



- First remove the batteries/accupack as described above and leave the radiomicrophone open.
- Unscrew the sound inlet basket.
- Loosen the screw and put it to one side.
- ► Gently ease the capsule out of the contacts and then pull it out of the housing as shown. Do not touch the contacts and the diaphragm!
- Insert the new capsule.
- Secure the capsule by tightening the screw.

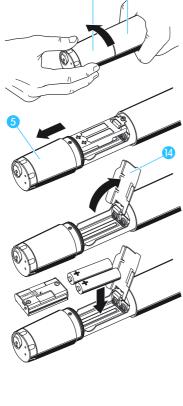
Note:

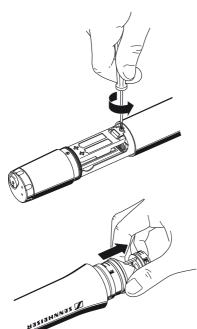
The screw mechanically secures the microphone capsule. If the screw is missing, malfunctions may occur during tough use.

- Put on the sound inlet basket and identification ring supplied with the new microphone head (NB: do NOT use the old basket, as the different heads use slightly differing internal foam) and screw it tight.
- Insert the batteries/accupack.
- Close the radiomicrophone and put it into operation.

Note:

Microphone capsule, sound inlet basket and foam insert form an acoustic unit and must therefore always be exchanged all together. Each microphone head comes with a color-coded identification ring to distinguish different microphone heads from each other (green = MD 835, blue = MD 845, red = ME 865).





Using the components

Switching the components on/off

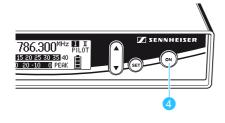
ew 300 G2 transmitters and receivers can only be switched off when the standard display is shown on the display panel. Within the operating menu, the ON button (receiver) or the ON/OFF button (transmitters) serves as the ESC (cancel) key, i.e you cancel your entry and return to the standard display.

Note:

Remove the batteries or the accupack when the units will not be used for extended periods of time.

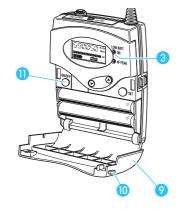
Switching the rack-mount receiver on/off

- Press the ON button 4 to switch the receiver on.
- ➤ To switch the receiver off, press the ON button until "OFF" appears on the display.



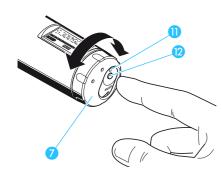
Switching the bodypack transmitter on/off

- Press the two unlocking buttons 10 and open the battery compartment cover 9.
- Press the ON/OFF button 6 to switch the bodypack transmitter on. The red LED 3 lights up.
- To switch the bodypack transmitter off, press the ON/OFF button 11 until "OFF" appears on the display. The red LED 3 goes off.
- Close the battery compartment. The battery compartment cover 9 locks into place with an audible click.



Switching the radiomicrophone on/off

- Turn the protective cap 7 at the bottom of the radiomicrophone so that the ON/OFF button 12 becomes accessible.
- ▶ Press the ON/OFF button to switch the radiomicrophone on. The red LED 11 lights up.
- To switch the radiomicrophone off, press the ON/OFF button 12 until "OFF" appears on the display. The red LED 11 goes off.



Muting the transmitters

Both transmitters have a MUTE switch that noiselessly mutes the transmitter's audio signal without switching the transmitter off.





- ➤ Set the MUTE switch ③ to the position 'MUTE'. The "MUTE" display appears on the transmitter display panel. Provided that the pilot tone function is activated on both the transmitter and the receiver, the "MUTE" display also appears on the receiver display panel.
- Set the MUTE switch back to the original position to retransmit the audio signal.

Muting the SKM 300 G2 radiomicrophone



- Turn the protective cap 7 at the bottom of the radiomicrophone so that the MUTE switch (3) becomes accessible.
- ➤ Set the MUTE switch to the position 'MUTE'. The "MUTE" display appears on the transmitter display panel. Provided that the pilot tone function is activated on both the transmitter and the receiver, the "MUTE" display also appears on the receiver display panel.
- Set the MUTE switch back to the original position to retransmit the audio signal.

Activating/deactivating the lock mode

ew 300 G2 transmitters and receivers have a lock mode that can be activated or deactivated via the operating menu (see "Activating/deactivating the lock mode" on page 34). The lock mode prevents that the transmitter or receiver is accidentally programmed or switched off during operation.

The operating menu

A special feature of the Sennheiser ew 300 G2 series is the similar, intuitive operation. As a result, the units are easy to operate and adjustments to the settings can be made quickly and "without looking" – even in stressful situations, for example on stage or during a live show or presentation.

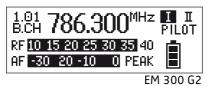
The buttons

Buttons	Mode	То
ON/OFF	Standard display	turn the transmitter or receiver on and off
or ON	Operating menu	cancel the entry and return to the standard display
(EM 300 G2 only)	Setting mode	cancel the entry and return to the standard display
SET	Standard display	get into the operating menu
	Operating menu	get into the setting mode of the selected menu
	Setting mode	store the settings and return to the previous menu level
▲/▼	Standard display	without function
	Operating menu	change to the previous menu ($ lap{\bullet}$) or change to the next menu ($ lap{\bullet}$)
	Setting mode	adjust the setting of the selected menu: option (▲/▼)

Overview of menus

Receiver			Transmitters		
Display	Function of the menu	Display	Function of the menu		
Bank	Switching between channel banks	BANK	Switching between channel banks		
Channel	Switching between the channels in a channel bank	CHAN	Switching between the channels in a channel bank		
Tune	Setting a receiving frequency for the channel bank "U" (user bank)	TUNE	Setting a transmission frequency for the channel bank "U" (user bank)		
	—	SENSIT	Adjusting the sensitivity (AF)		
Scan	Scanning the channel banks for free channels	_	_		
AF Out	Adjusting the audio output level		—		
Squelch	Adjusting the squelch threshold		_		
Display	Selecting the standard display	DISPLY	Selecting the standard display		
Name	Entering a name	NAME	Entering a name		
Reset	Loading the factory-preset default settings	RESET	Loading the factory-preset default settings		
Pilot	Activating/deactivating the pilot tone evaluation	PILOT	Activating/deactivating the pilot tone transmission		
Lock	Activating/deactivating the lock mode	LOCK	Activating/deactivating the lock mode		
LCD Contr	Adjusting the contrast of the graphic display	_	_		
Exit	Exiting the operating menu and returning to the standard display	EXIT	Exiting the operating menu and returning to the standard display		

Working with the operating menu



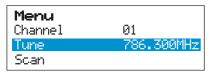
By way of example of the "Tune" menu, this section describes how to use the operating menu.

After switching the unit on, the standard display is shown on the display panel.



Transmitters

Getting into the operating menu





Press the SET button to get from the standard display into the operating menu. The last menu selected flashes on the display. With the receiver, the current setting is additionally displayed.

Selecting a menu





- Press the △/▼ buttons to select a menu.
- Press the SET button to get into the setting mode of the selected menu. With the transmitters, the current setting that can be adjusted flashes on the display. With the receiver, the name of the menu and the current setting are displayed.

Adjusting a setting





Press the ▲/▼ buttons to adjust the setting.

By briefly pressing the ▲/▼ buttons, the display jumps either forwards or backwards to the next setting. In the "Channel", "Tune" and "Name" menu, the ▲/▼ buttons feature a "fast search" function. If you hold down a button, the display cycles continuously. The "fast search" function allows you to get fast and easily to your desired setting. With the transmitters, the new setting flashes on the display until it is stored.

Storing a setting

Stored

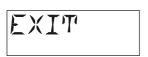


Press the SET button to store the setting. "Stored" appears on the display, indicating that the setting has been stored. The display then returns to the top menu level.

With most menus, new settings become effective immediately without having to be stored. An exception are the "BANK", "CHAN", "TUNE" and "RESET" menus of the transmitters and the "Reset" menu of the receiver. With these menus, new settings only become effective after they have been stored and "Stored" had appeared on the display.

Exiting the operating menu

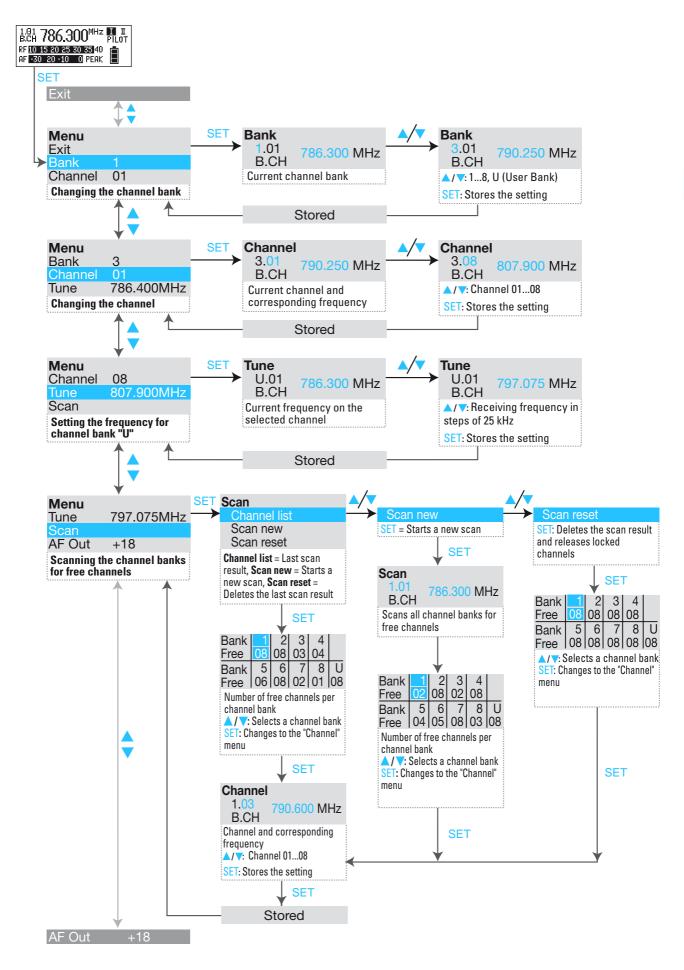


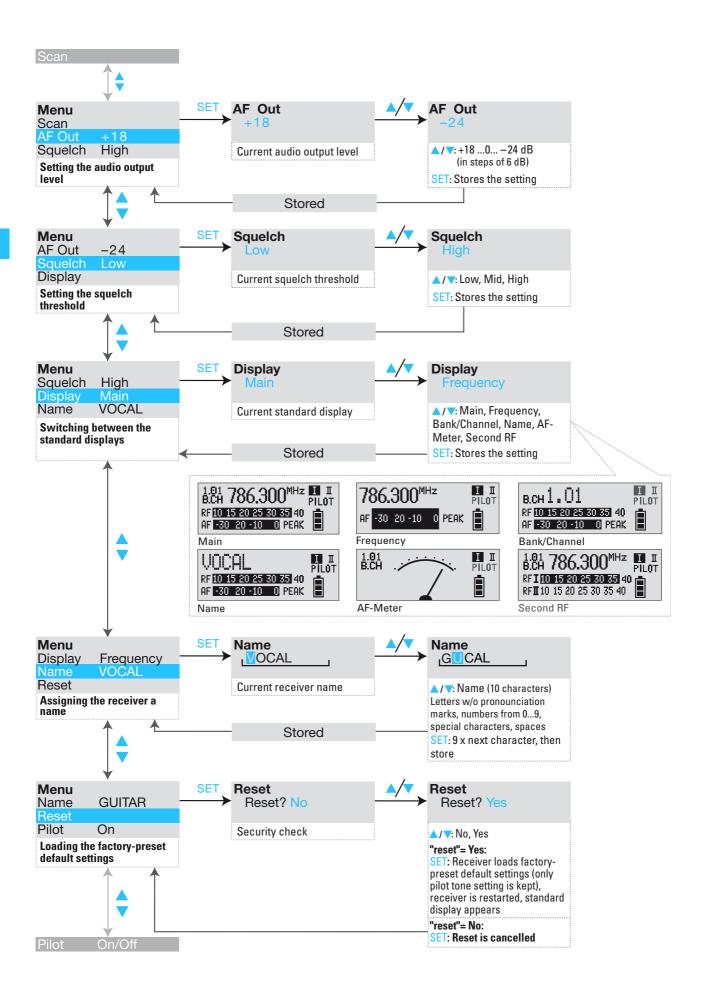


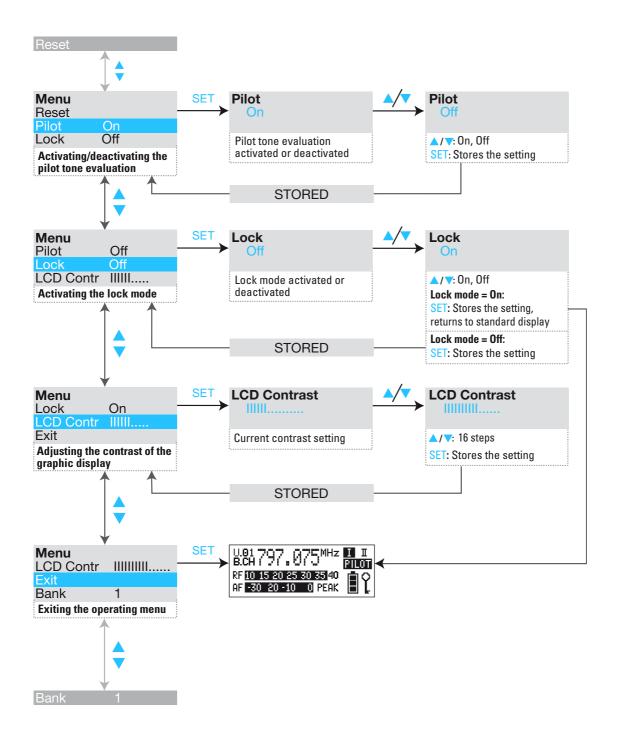
➤ Select the "Exit" menu to exit the operating menu and to return to the standard display.

When you have entered the operating menu, the ON/OFF button or the ON button (EM 300 G2 receiver only) serves as the ESC (cancel) key, i.e. by briefly pressing the ON/OFF or POWER button, you cancel your entry and return to the standard display.

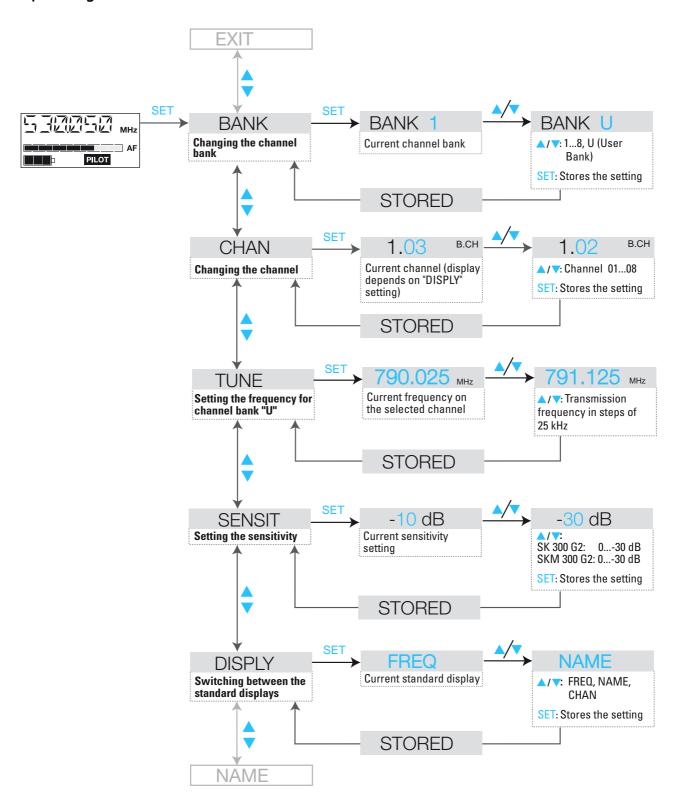
Operating menu of the receiver

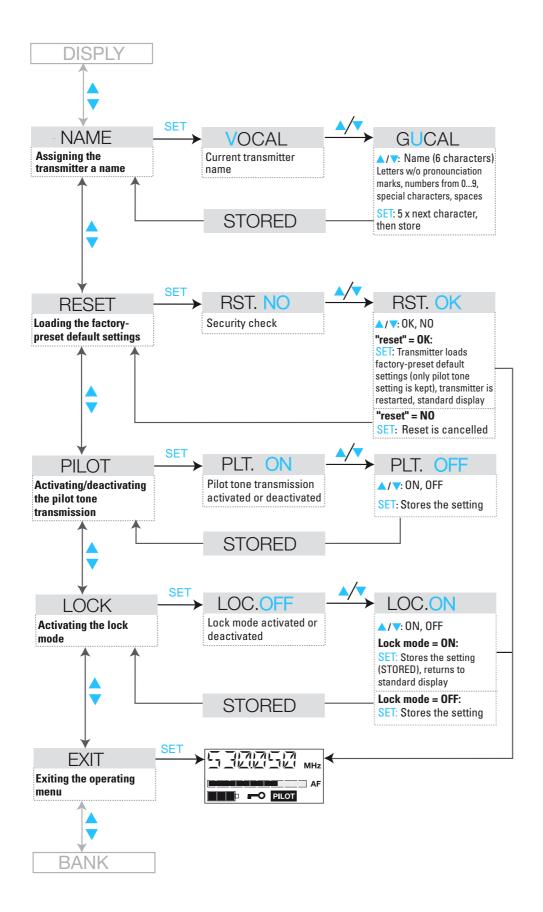






Operating menu of the transmitters





Adjustment tips for the operating menu

Switching between channel banks

BANK Bank Via the "Bank" menu, you can switch between the nine channel banks. The channel banks "1" to "8" have eight switchable channels that are factory-preset to a transmission/receiving frequency (see "The channel bank system" on page 4). The channel bank "U" (user bank) has eight switchable channels to store your selection out of 1440 transmission/receiving frequencies that are freely selectable within the preset frequency range.

When switching from one channel bank to another, the channel with the lowest channel number is automatically displayed. If, during the last scan of this channel bank, an interfering frequency was detected on the channel with the lowest channel number (see "Scanning the channel banks for free channels (EM 300 G2 only)" on page 29), the receiver display panel automatically displays the next free channel.

Switching between the channels in a channel bank

CHAN Channel Via the "Channel" menu, you can switch between the eight channels in a channel bank.

Always set the transmitter and the receiver of a transmission link to the same channel. After scanning the channel banks (see "Scanning the channel banks for free channels (EM 300 G2 only)" on page 29), only the free channels are displayed. Set the transmitter to one of the free channels.

Selecting the frequencies to be stored in the channel bank "U"

TUNE Tune

Via the "Tune" menu, you can select the frequencies to be stored in the channel bank "U" (user bank).



When you have selected one of the channel banks "1" to "8" and then select the "Tune" menu, the transmitter or receiver automatically switches to channel 01 of the channel bank "U". In this case, "U.01" briefly appears on the display.

Use the △/▼ buttons to select the desired transmission or receiving frequency. Transmission and receiving frequencies are tunable in 25-kHz steps within a switching bandwidth of 36 MHz max. For intermodulation-free frequencies, please refer to the enclosed frequency table.

Scanning the channel banks for free channels (EM 300 G2 only)

Scan

Before putting one or several transmission links into operation, you should scan the channel banks for free channels.

Displaying the last scan result

Scan
Channel list
Scan new
Scan reset

Select t	he " <mark>Scan</mark> "	menu.
----------	--------------------------	-------

Select "Channel list" to display the last scan result. The number of free channels is displayed for all channel banks.

Channel1.01 786.300 MHz
B.CH

► For further details, select a channel bank by using the △/▼ buttons and then press the SET button. This gets you into the "Channel" menu where you can select a channel of this channel bank or display the frequency of a channel.

Starting the scan

- ▶ Before starting the scan, switch all transmitters of your system off, since channels used by switched-on transmitters will not be displayed as "free channels".
- Select the "Scan" menu.
- Select "Scan new" and confirm your selection by pressing the SET button. After the scan is completed, the number of free channels is displayed for all channel banks. Channels that are used or subject to interference are locked and cannot be selected.
- For further details, select a channel bank by using the △/▼ buttons and then press the SET button. This gets you into the "Channel" menu where you can select a channel of this channel bank or display the frequency of a channel.

Scan Channel list Scan new Scan reset

Bank	1	2	3		
Free	80	08	03	04	
Bank	5	6	7	8	U
Free	06	08	02	01	80

Releasing locked channels

- Select the "Scan" menu.
- Select "Scan reset" and confirm your selection by pressing the SET button. The last scan result is deleted and all channels can now be selected again.

Scan Channel list Scan new Scan reset

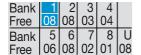
Bank Free	1 08	2 08	3	4 08	
Bank Free					

Multi-channel operation

For multi-channel operation, only use the free channels in a channel bank.

Before putting the transmission links into operation, we recommend performing an auto scan.

Scan a receiver for free channels.



> Select a channel bank with a sufficient number of free channels.

▶ Apply the scan result to all other transmitters and receivers.

Adjusting the sensitivity (transmitters only)

Via the "SENSIT" menu, you can adjust the transmitters' input sensitivity.

The input sensitivity is adjusted too high when close talking distances, speakers with loud voices or loud music passages cause overmodulation in the transmission link. In this case, the SK 300 G2's yellow LED (AF PEAK) will light up and the receiver's level display for audio signal "AF" will show full deflection (see "AF peak indication (SK 300 G2 only)" on page 11).

If, on the other hand, the sensitivity is adjusted too low, the transmission link will be undermodulated, which would result in a signal with high background noise.

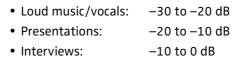
The sensitivity is correctly adjusted when the level display for audio signal "AF"

shows full deflection only during the loudest passages.

Note:

For monitoring the adjusted sensitivity, the transmitter's level display for audio signal "AF" always indicates the audio level – even if the transmitter is muted.

The following figures are a guide to the best settings:



• Musical instruments:

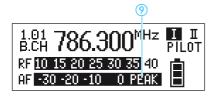
 electric guitars with single coil pickups: 	-10 to 0 dB
 electric guitars with humbucker pickups: 	−20 to −10 dB

- guitars with active electronics

(active pickups, active EQs, piezo pickups): -30 to -20 dB

SENSIT







Adjusting the audio output level (EM 300 G2 only)

AF Out

Via the "AF Out" menu, you can adjust the audio output level of the receivers. The level can be adjusted in eight steps. Adapt the level of the audio output (AF OUT) to the input of the connected unit. The following figures are a guide to the best settings:

Line level input: 0 to +18 dBMicrophone level input: -24 to -6 dB

Adjusting the squelch threshold (EM 300 G2 only)

Squelch

The receiver is equipped with a squelch that can be adjusted via the "Squelch" menu. The squelch eliminates annoying noise when the transmitter is switched off. It also suppresses sudden noise when there is no longer sufficient transmitter power received by the receiver.

Note:

Before adjusting the squelch threshold to a different setting, set the volume on a connected amplifier to the minimum.

There are three possible squelch settings:

• Low = low

• Mid = middle

• High = high

Selecting the setting (Low) reduces the squelch threshold, selecting the setting (High) increases the squelch threshold. Adjust the squelch threshold – with the transmitter switched off – to the lowest possible setting that suppresses hissing noise.

IMPORTANT!

Notes:

If the squelch threshold is adjusted too high, the transmission range will be reduced. Therefore, always adjust the squelch threshold to the lowest possible setting.

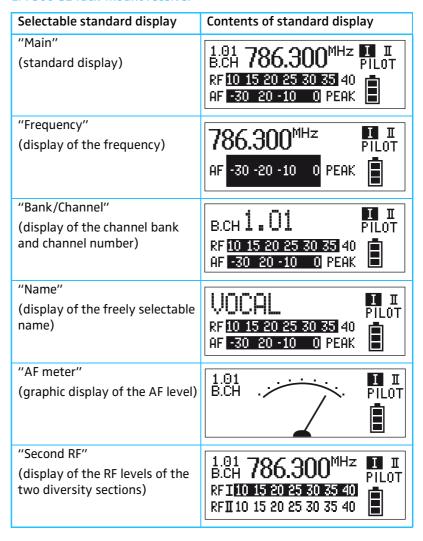
When in the setting mode of the "Squelch" menu, pressing the ▼ button (DOWN) for more than three seconds will switch the squelch off. "Off" appears on the display. If no RF signal is being received, hissing noise will occur. This setting is for test purposes only.

Selecting the standard display

DISPLY Display

Via the "Display" menu, you can select the standard display:

EM 300 G2 rack-mount receiver



SK 300 G2 body pack transmitter and SKM 300 G2 radiomicrophone

Selectable standard display	Contents of standard display
"FREQ"	1 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1
	PILOT
"NAME"	
	PILOT
"CHAN"	Л) Л В.СН ! <u>У</u> . (
	AF PILOT

Entering a name

NAME Name

Via the "Name" menu, you can enter a freely selectable name for each transmitter and receiver. You can, for example, enter the name of the performer for whom the adjustments have been made.

The name can be displayed on the standard display and can consist of up to six characters (transmitters) and up to ten characters (receiver) such as:

- letters (without pronounciation marks),
- numbers from 0 to 9,
- special characters e.g. () . _ and spaces.

To enter a name, proceed as follows:

- Press the SET button to get into the setting mode of the "Name" menu. The first segment starts flashing on the display.
- With the △/▼ buttons you can now select a character. By briefly pressing a button, the display jumps either forwards or backwards to the next character. If you hold down a button, the display starts cycling continuously.
- Press the SET button to change to the next segment and select the next character.
- ► Have you entered the name completely? Press the SET button to store your setting and to return to the previous menu level.

Loading the factory-preset default settings

RESET Reset

Via the "Reset" menu, you can load the factory-preset default settings. Only the selected setting for the pilot tone remains unchanged. After the reset, the unit is restarted and the standard display is shown on the display panel.

Activating/deactivating the pilot tone transmission or pilot tone evaluation

PILOT Pilot

Via the "Pilot" menu, you can activate or deactivate the pilot tone transmission of the transmitters and the pilot tone evaluation of the receiver.

The pilot tone supports the squelch function (Squelch) and protects against interference due to RF signals from other units. The transmitter adds an inaudible signal, known as the pilot tone, to the transmitted signal. The receiver detects and evaluates the pilot tone, and is thus able to identify the signal of the matching transmitter and mute all others.

Transmitters of the ew 300 series (first generation) do not transmit a pilot tone and the receiver of the ew 300 series (first generation) cannot evaluate the pilot tone. Nevertheless, you can combine units of the ew 300 series (first generation) with units of the ew 300 G2 series (second generation).

However, when combining units, please observe the following:

- With an ew 300 G2 transmitter and the ew 300 G2 receiver: Activate the pilot tone function with both transmitter and receiver.
- With an ew 300 transmitter and the ew 300 G2 receiver or vice versa:
 Deactivate the pilot tone function with the ew 300 G2 transmitter or receiver.

Activating/deactivating the lock mode

LOCK Lock Via the "Lock" menu, you can activate or deactiveate the lock mode.



EM 300 G2

The lock mode prevents that the transmitter or receiver is accidentally programmed or switched off during operation. The lock mode icon on the display indicates that the lock mode is activated.

To deactivate the lock mode, first press the SET button and then press the ▲/
▼ buttons to select "Lock Off". If you confirm your selection by pressing the SET button, the buttons can be operated as usual.



Adjusting the contrast of the graphic display (EM 300 G2 only)

LCD-Contr

Via the "LCD Contr" menu, you can adjust the contrast of the graphic display in 16 steps.

Exiting the operating menu

EXIT Exit Via the "Exit" menu, you can exit the operating menu and return to the standard display.

If problems occur...

Error checklist

Problem	Possible cause	Possible solution	
No operation indication	Batteries are flat or accupack is flat	Replace the batteries or recharge the accupack	
	No mains connection (EM 300 G2)	Check the connections of the mains unit	
No RF signal	Transmitter and receiver are not on the same channel	Set transmitter and receiver to the same channel	
	Transmitter is out of range	Check the squelch threshold setting (see "Adjusting the squelch threshold (EM 300 G2 only)" on page 31) or reduce the distance between transmitter and receiving antenna	
RF signal available, no audio	Transmitter is muted ("MUTE")	Deactivate the muting function	
signal, "MUTE" display appears on the display panel	Receiver's squelch threshold is adjusted too high	See "Adjusting the squelch threshold (EM 300 G2 only)" on page 31	
	Transmitter doesn't transmit a pilot tone	See "Activating/deactivating the pilot tone transmission or pilot tone evaluation" on page 33	
Audio signal has a high level of background noise	Transmitter sensitivity is adjusted too low	See "Adjusting the sensitivity (transmitters only)" on page 30	
	Receiver's AF output level is adjusted too low	See "Adjusting the audio output level (EM 300 G2 only)" on page 31	
Audio signal is distorted	Transmitter sensitivity is adjusted too high	See "Adjusting the sensitivity (transmitters only)" on page 30	
	Receiver's AF output level is adjusted too high	See "Adjusting the audio output level (EM 300 G2 only)" on page 31	
No access to a certain channel	During scanning, an RF signal has been detected on this channel and the channel has been locked	See "Scanning the channel banks for free channels (EM 300 G2 only)" on page 29	
	During scanning, a transmitter of your system operating on this channel has not been switched off	See "Multi-channel operation" on page 30	

If problems occur that are not listed in the above table or if the problems cannot be solved with the proposed solutions, please contact your local Sennheiser agent for assistance.

Recommendations and tips

... for the ME 2 and ME 4 clip-on microphones

- To reduce level variations to a minimum when the user turns his or her head away from the microphone, attach the microphone as centrally as possible.
- To protect the microphone against excessive sweat/moisture, avoid direct skin contact.
- Attach the microphone carefully and conduct the cable so that noise due to friction is avoided.
- Always use the ME 4 directional microphone with a windshield and direct the microphone towards the sound source (e.g. mouth).

... for the ME 3 headmic

- Always use the microphone with a popshield and position the microphone at the corner of the mouth.
- You can vary the bass reproduction by increasing/decreasing the talking distance.
- Make sure that the sound inlet is directed towards the mouth. The sound inlet is marked with a little dot.

... for the SK 300 G2 bodypack transmitter

- Make sure that the antenna and the microphone cable do not cross.
- The antenna should hang freely and be at least 1 cm away from the body. The antenna must not be in direct contact with the skin.
- For best results, make sure that the transmitter sensitivity is correctly adjusted.

... for the SKM 300 G2 radiomicrophone

- Hold the SKM 300 G2 in the middle of the microphone body. Holding it close
 to the sound inlet basket will influence the microphone's pick-up pattern,
 holding it at the lower part of the body will reduce the transmitter's range.
- You can vary the bass reproduction by increasing/decreasing the talking distance.
- For best results, make sure that the transmitter sensitivity is correctly adjusted.

... for optimum reception

- Transmission range depends to a large extent on location and can vary from about 10 m to about 150 m. There should be a "free line of sight" between transmitting and receiving antennas.
- If, with the EM 300 G2 receiver, reception conditions are unfavourable, you should use two remote antennas which are connected via antenna cable.
- To avoid overmodulating the receiver, observe a minimum distance of 5 m between transmitting and receiving antennas.
- Observe a minimum distance of 50 cm between receiving antennas and metal objects (such as cross members or reinforced-concrete walls).

... for multi-channel operation

- For multi-channel operation, you can only use the channels in a channel bank. Each of the channel banks "1" to "8" accommodates eight factory-preset frequencies which are intermodulation-free. For alternative frequency combinations, please refer to the enclosed frequency table. The freely selectable frequencies can be selected via the "TUNE" menu and can be stored in the channel bank "U".
- When using several transmitters simultaneously, interference can be avoided by maintaining a minimum distance of 20 cm between two transmitters.
- Use special accessories for multi-channel applications (see "Accessories" on page 43).

Care and maintenance

Use a slightly damp cloth to clean the units from time to time.

Note:

Do not use any cleansing agents or solvents.

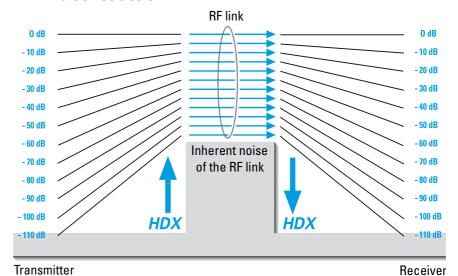
To clean the SKM 300 G2's sound inlet basket, proceed as follows:

- Unscrew the sound inlet basket (turn counterclockwise) and remove it.
- Remove the foam insert.
- Use a slightly damp cloth to clean the sound inlet basket from the inside and ouside.
- Reinsert the foam insert.
- Replace the sound inlet basket on the SKM 300 G2 and screw it tight (taking care not to loose the colored identification ring).



Additional information

HDX noise reduction



Progress you can hear:

The evolution wireless G2 series is equipped with HDX, the Sennheiser noise reduction system that reduces RF interference. It increases the signal-to-noise ratio in wireless audio transmission to more than 110 dB.

HDX is a wideband compander system which compresses the audio signal in the transmitter in a 2:1 ratio (related to dB) to lift it above the inherent noise floor of the RF link. A 110 dB dynamic range signal is thus transmitted with an effective dynamic range of only 55 dB, which is above the 60 dB noise floor of the RF link. In the receiver the signal is expanded in an identical and opposite way in a 1:2 ratio to restore the original signal, at the same time reducing the RF noise to below the noise floor of the receiver.

HDX has been specially developed for high quality radiomicrophone systems.

Note

Only transmitters and receivers that are equipped with HDX can work correctly with each other. If non HDX equipment was mixed with HDX, the dynamic range would be drastically reduced and the transmission would sound blunt and flat. HDX is permanently active and cannot be switched off.

Wireless transmission systems

With the ew 300 G2 series, Sennheiser puts an end to cable tangles and enables complete freedom of movement. The systems operate exclusively in the UHF band. UHF transmission is extremely reliable and is far less prone to interference than the overcrowded VHF band – harmonics from mains units, fluorescent tubes, refrigerators, computers, etc. are virtually eliminated. Also indoor propagation of UHF radio waves is better than VHF so that the RF power can be kept low – this is also an advantage when using multi-channel systems. Finally, UHF frequency ranges are being approved all over the world for radiomicrophone usage – in some countries licence-free.

There are two transmitter versions: The hand-held transmitter is a complete radiomicrophone in a single unit, the bodypack transmitter can accept a wide range of inputs including: omni-directional or cardioid clip-on microphones, head-worn microphone, guitar/instrument direct input and auxiliary units via the optional CL 2 line input cable.

Correct adjustment of transmitter sensitivity is vital. Too high and you get overmodulation and distortion, too low and you get undermodulation and a

noisy signal. Please set the sensitivity correctly for the microphone/usage and check it before every performance to ensure best operation.

Sennheiser miniature clip-on microphones can be attached in various ways: they can, for example, be attached to the hairline or to clothing (e.g. tie or lapel). However it is fixed, please make sure that the microphone is protected against sweat/moisture and make-up.

Squelch

Pilot tone squelch

The transmitter adds a pilot tone to the audio signal. The receiver checks incoming audio signals to see if the pilot tone is present. In the absence of the signal, the receiver's audio output will remain muted, even if a strong RF signal is present.

This prevents strong interfering signals from causing hissing noise in the receiver when the transmitter is switched off.

In order to benefit from this feature, the pilot tone function must be activated on both the transmitter and the receiver. The pilot tone function is factory-preset to "ON" (= activated).

Field strength-dependent squelch

Depending on the strength of the received RF signal, the receiver's audio output is opened or muted. Via the "Squelch" menu of the receiver, the squelch threshold can be adjusted in three steps (Low, Mid, High).

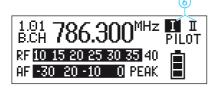
Diversity reception

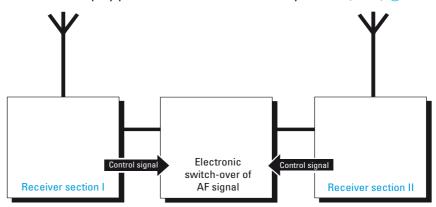
The EM 300 G2 receiver operates on the "true diversity" principle:

A receiving antenna receives not only the electromagnetic waves which reach it by a direct path, but also the reflections of these waves which are created in the room by walls, windows, ceilings and fittings. When these waves are superimposed, destructive interference occurs, which can also be called "field strength gaps". Repositioning the receiving antenna can bring a solution. With mobile transmitters, however (which all radiomicrophones are), the "field strength gap" will then occur with a different transmitter position. These "field strength gaps" can only be eliminated with true diversity receivers.

In true diversity, instead of one antenna and one receiver there are now two antennas and two receiver sections. The antennas are spatially separated. By means of a comparison circuit, the receiver section with the strongest RF signal is always switched to the common AF output. The risk of the occurrence of "field strength gaps" in both antennas at the same time is virtually nonexistant.

The receiver display panel shows the active diversity section (I or II) 6.





Specifications

System

RF characteristics

Modulation Frequency ranges

Transmission/receiving frequencies

Switching bandwidth Nominal/peak deviation Frequency stability

AF characteristics

Noise reduction system AF frequency response S/N ratio (at 1 mV and peak deviation) THD (at nominal deviation and 1 kHz)

General data

Temperature range Dimensions of carrying case [mm] Weight of carrying case

Receiver

RF characteristics

Receiver principle Sensitivity (with HDX, peak deviation)

Adjacent channel rejection Intermodulation attenuation Blocking

Squelch

Pilot tone squelch Antenna inputs

wideband FM

518-554, 626-662, 740-776, 786-822, 830-866 MHz 8 channel banks with 8 factory-preset channels each

1 channel bank with 8 freely selectable channels (1440 frequencies, tunable in steps of 25 kHz)

36 MHz ±24 kHz/±48 kHz

≤±15 ppm

Sennheiser HDX

40-18,000 Hz \geq 112 dB(A)

≤0.9 %

–10 °C to +55 °C

380 x 370 x 70

approx. 3100 g

EM 300 G2

true diversity

< 2.5 µV at 52 dBA_{rms} S/N ratio

≥ 68 dB ≥ 68 dB ≥ 72 dB

Off 4 steps:

> Low: 5 dBµV Mid: 15 dBµV High: 25 dBµV

can be switched off 2 BNC sockets

AF characteristics

AF output voltage (at peak deviation 1 kHz_{AF}) $\frac{1}{4}$ " (6.3 mm) jack socket (unbalanced): +12 dB,,

> XLR socket (balanced): +18 dB_{...}

Overall device

Power supply Power consumption Dimensions [mm]

Weight

10.5 – 16 V DC, nominal voltage 12 V DC

approx. 200 mA 212 x 145 x 38 approx. 1100 g

Transmitters

RF characteristics		SK 300 G2	SKM 300 G2		
RF output power at 50 Ω		typ. 30 mW			
AF characteristics					
Max. input voltage (at peak deviation)	Microphone	1.8 V _{rms} , unbalanced	_		
	Line	2.4 V _{rms}	_		
Input impedance	Microphone	10 kΩ unbalanced	_		
	Line	1 M Ω	_		
Overall device					
Power supply		2 AA size batteries, 1.5 V			
Nominal voltage		2.4 V			
Max. power consumption at nominal vol	tage	≤170 mA	≤170 mA		
Power consumption with		≤250 μA	≤250 µA		
switched-off transmitter					
Operating time (with batteries)		≥ 8 h	≥ 8 h		
Operating time (with BA 2015 accupack	()	≥ 8 h	≥ 8 h		
Dimensions [mm]		82 x 64 x 24	Ø 50 x 225		
Weight (incl. batteries)		approx. 158 g	approx. 450 g		

Microphones

	ME 2	ME 3	ME 4
Transducer principle	condenser	condenser	condenser
Sensitivity	20 mV/Pa	1.6 mV/Pa	40 mV/Pa
Pick-up pattern	omni-driectional	super-cardioid	cardioid
Max. SPL	130 dB SPL	150 dB SPL	120 dB SPL

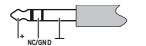
Microphone heads

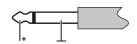
Transducer principle Sensitivity Pick-up pattern Max. SPL Color of identification ring

MD 835	MD 845	ME 865
dynamic	dynamic	condenser
1.5 mV/Pa	1 mV/Pa	3 mV/Pa
cardioid	super-cardioid	super-cardioid
150 dB SPL	154 dB SPL	144 dB SPL
green	blue	red

onnector assignment

EM 300 G2: EM 300 G2: EM 300 G2: LR-3F connector, balanced plug, unbalanced plug, unbalanced







M 300 G2: DC connector for power supply

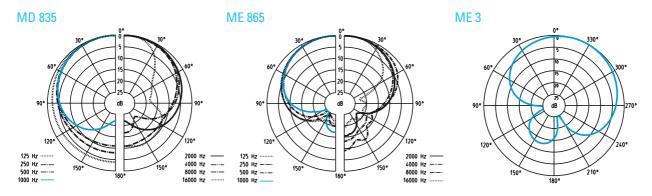


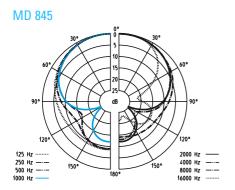
3.5 mm jack plug

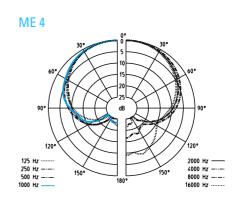
SK 300 G2:

Polar diagrams and frequency response curves of microphones/microphone heads

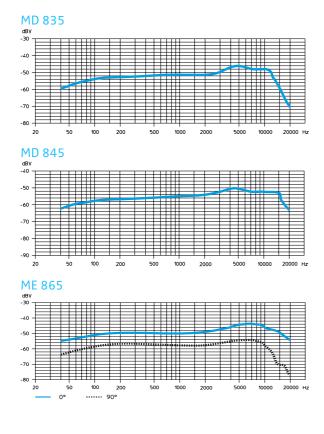
Polar diagrams of microphones/microphone heads

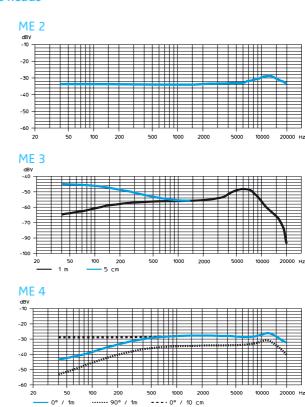






Frequency response curves of microphones/microphone heads





Accessories

MD 835	Microphone head for SKM 300 G2 (green identification ring), dynamic, cardioid		
MD 845	Microphone head for SKM 300 G2 (blue identification ring), dynamic, super-cardioid		
ME 865	Microphone head for SKM 300 G2 (red identification ring), condenser, super-cardioid		
MZW 1	Wind- and popshield for SKM 300 G2		
MZQ 1	Microphone clamp for SKM 300 G2		
ME 2	Clip-on microphone for SK 300 G2, condenser, omni-directional		
ME 4	Clip-on microphone for SK 300 G2, condenser, cardioid		
ME 3	Headmic for SK 300 G2, condenser, super-cardioid		
CI 1	Instrument cable for SK 300 G2, with $\frac{1}{4}$ " (6.3 mm) jack plug		
CL 2	Line input cable for SK 300 G2, with XLR-3F connector		
GA 2	19" rack adapter		
AM 2	Antenna mount for mounting antennas to the front of the GA 2		
A 1031-U	UHF antenna, passive, omni-directional, can be mounted onto a stand		
AB 2-A	UHF antenna booster, 10 dB gain powered via ASP 2/NT1 518-554 MHz		
AB 2-B	626–662 MHz		
AB 2-C	740–776 MHz		
AB 2-D	786–822 MHz		
AB 2-E	830-866 MHz		
GZL 1019-A1 / 5 / 10	Antenna cable with BNC connectors 1 m / 5 m / 10 m		
ASP 2	Antenna splitter, 2 x 1:4, passive, for connecting eight EM 300 G2 to two A 1031-U/AB 2		
NT 1	Mains unit for ASP 2		
DC 2	DC power adapter, for external 12 V DC powering of SK 300 G2 (instead of two AA size batteries)		
BA 2015	Accupack for SK 300 G2 and SKM 300 G2		
L 2015	Charger for BA 2015 accupack		
CC 2	Carrying case for ew 300 G2 system		
KEN	8 color-coded identification caps for SKM 300 G2		

Manufacturer declarations

Warranty regulations

The guarantee period for this Sennheiser product is 24 months from the date of purchase. Excluded are accessory items, rechargeable or disposable batteries that are delivered with the product; due to their characteristics these products have a shorter service life that is principally dependent on the individual frequency of use.

The guarantee period starts from the date of original purchase. For this reason, we recommend that the sales receipt be retained as proof of purchase. Without this proof (which is checked by the responsible Sennheiser service partner) you will not be reimbursed for any repairs that are carried out.

Depending on our choice, guarantee service comprises, free of charge, the removal of material and manufacturing defects through repair or replacement of either individual parts or the entire device. Inappropriate usage (e.g. operating faults, mechanical damages, incorrect operating voltage), wear and tear, force majeure and defects which were known at the time of purchase are excluded from guarantee claims. The guarantee is void if the product is manipulated by non-authorised persons or repair stations.

In the case of a claim under the terms of this guarantee, send the device, including acces-sories and sales receipt, to the responsible service partner. To minimise the risk of transport damage, we recommend that the original packaging is used. Your legal rights against the seller, resulting from the contract of sale, are not affected by this guarantee.

The guarantee can be claimed in all countries outside the U.S. provided that no national law limits our terms of guarantee.

CE Declaration of Conformity

< € 0682 ①

This equipment is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC, 89/336/EC or 73/23/EC. The declaration is available on the internet site at www.sennheiser.com.

Before putting the device into operation, please observe the respective country-specific regulations!

Batteries or rechargeable batteries



The supplied batteries or rechargeable batteries can be recycled. Please dispose of them as special waste or return them to your specialist dealer. In order to protect the environment, only dispose of exhausted batteries.

WEEE Declaration



Your Sennheiser product was developed and manufactured with highquality materials and components which can be recycled and/or reused. This symbol indicates that electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime. Please dis-

pose of this product by bringing it to your local collection point or recycling centre for such equipment. This will help to protect the environment in which we all live.

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