



GP SK 3202

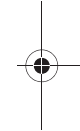
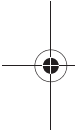
Bedienungsanleitung
Instructions for use
Notice d'emploi
Istruzioni per l'uso
Instrucciones para el uso





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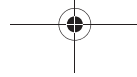
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Thank you for choosing Sennheiser!

We have designed this product to give you reliable operation over many years. Over 60 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.



Important safety instructions

These instructions contain important safety information.

- Please read these instructions carefully and completely before using the portable transmitter.
- Heed all warnings.
- Follow all instructions.
- Make these instructions easily accessible to all users at all times. Always include these instructions when passing the portable transmitter on to third parties.
- Never open the portable transmitter. If units are opened by customers in breach of this instruction, the warranty becomes null and void.
- Keep the portable transmitter away from any heat sources and never expose it to direct sunlight!
- Keep liquids and small parts which conduct electricity away from the portable transmitter.
- Only charge the rechargeable batteries at ambient temperatures between 10 °C and 40 °C. Only use the GP L 3202 charger to charge the batteries. Immediately stop the charging process of an obviously defective portable transmitter/rechargeable battery.
- After use, insert the portable transmitter into a charger or turn it off. When the portable transmitter is not used for an extended period, recharge the batteries about every three months.
- Only use a clean dry cloth to clean the portable transmitter.



- Only use attachments/accessories specified by Sennheiser.
- Refer all servicing to qualified service personnel. Servicing is required if the portable transmitter has been damaged in any way, such as liquid has been spilled, objects have fallen inside, the portable transmitter has been exposed to rain or moisture, does not operate properly or has been dropped.
- Dispose of units with exhausted rechargeable batteries which cannot be recharged as special waste or return them to your specialist dealer.



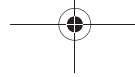
Intended use of the portable transmitter



“Intended use” means that the portable transmitter should be used within the operating conditions and limitations described in this instruction manual.



“Improper use” means modifying the portable transmitter, using the portable transmitter other than as described in these instructions, or under operating conditions which differ from those described herein.





Delivery includes

1 SK 3202 portable transmitter

1 neck strap

1 antenna

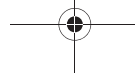
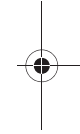
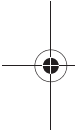
Quick Start Guide

(a detailed instruction manual can be found in PDF format on the **guidePORT** CD (see chapter 5) and in the **guidePORT** on-line help)



In order to be able to configure and use the portable transmitter, you also require the following equipment and software (not included in the delivery):

- 1 microphone (see "Suitable microphones" Page 6)
- EK 3202 receivers
- L 3202 chargers for configuration and for charging the rechargeable batteries in the portable transmitter and receivers
- "Visitor Profiler" software module (included with the **guidePORT** SYS software package) for configuring the portable transmitter and receivers
- 1 computer





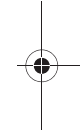
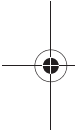
The SK 3202 portable transmitter

The SK 3202 is a portable stereo transmitter, allowing you to offer personal guided tours using your **guidePORT** system. The SK 3202 ensures excellent speech intelligibility even over longer distances. There will be no crowding around the guide; other visitors will not be disturbed by the guided tour (and vice versa). The visitors to the tour can enjoy complete freedom of movement.



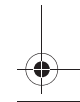
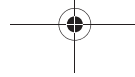
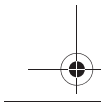
A few mouse clicks are all that is required to configure the portable transmitter and any number of receivers for a guided tour. The portable transmitter is easy to use.

During a guided tour, the portable transmitter does not interfere with the reception of Storage and Live Events. Using the portable transmitter, the receivers participating in the guided tour can be seamlessly switched between the guided tour and any Events.



Suitable receivers

The SK 3202 portable transmitter only works with the Sennheiser EK 3202 receivers.




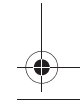
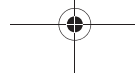
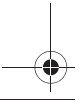
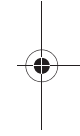
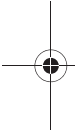


Suitable microphones

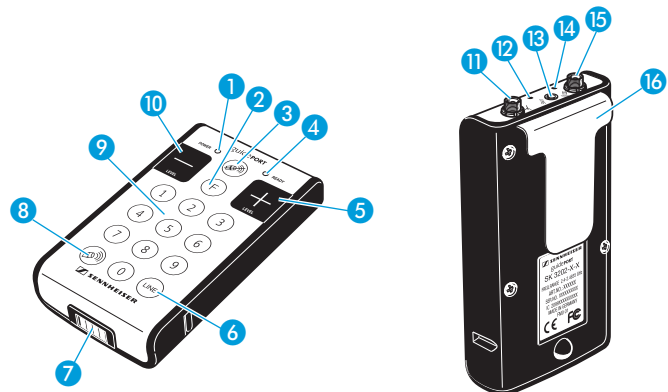
You can connect one of the following Sennheiser microphones (not included) to the portable transmitter:

- Clip-on microphones with 3-pin screw locking LEMO plug:
MKE 2-4 Gold C,
MKE plat-4-C,
ME 102 (only with Cable KA 100S-4),
ME 104 (only with Cable KA 100-4),
ME 105 (only with Cable KA 100-4)
- Headmic:
HS 2
- Hand-held microphone:
e935 (with XLR-3 to 3-pin screw locking LEMO adapter cable)

In addition, you can connect an audio source to the LINE socket (3.5 mm stereo)  of the transmitter.



Operating elements



- 1 POWER LED
- 2 FUNCTION key
- 3 MUTE key
- 4 READY LED
- 5 LEVEL+ key
- 6 LINE key
- 7 4-pin connector strip
- 8 MIC key
- 9 Numeric keys
- 10 LEVEL- key
- 11 ANT antenna socket
- 12 LINE LED
- 13 LINE socket (3.5 mm stereo)
- 14 MIC LED
- 15 MIC microphone socket
- 16 Belt clip

Meanings of the four LEDs

LED	Status	Meaning
POWER LED ① READY LED ④	both lit	Portable transmitter is switched on. Capacity of the built-in rechargeable battery is sufficient.
	both off	Portable transmitter is turned off.
POWER LED ①	flashes red slowly	Built-in rechargeable battery is almost flat. Portable transmitter does not react to key presses.
	off	Built-in rechargeable battery is flat. Portable transmitter is turned off.
READY LED ④	off	Portable transmitter is not communicating with the receivers.
	flashes slowly	Tour interruption is activated.
	flashes rapidly	Portable transmitter expects an entry.
LINE LED ⑫	lit green	Line input is switched on.
	lit yellow	Line input sensitivity is correctly adjusted.
	lit red	Line input is overmodulated (clipping). Thus, the audio signal in the receivers is distorted.
	flashes red	Line input is muted during sensitivity adjustment.
	off	Portable transmitter is not communicating with the receivers.

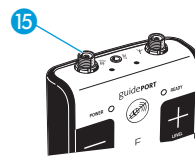
LED	Status	Meaning
MIC LED 14	lit green	Microphone input is switched on.
	lit yellow	Mic input sensitivity is correctly adjusted.
	lit red	Mic input is overmodulated (clipping). Thus, the audio signal in the receivers is distorted.
	flashes red rapidly	Mic input is muted or tour interruption is activated.
	off	Portable transmitter is not communicating with the receivers.



Putting the SK 3202 into operation

Connecting the microphone

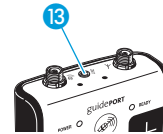
- ▶ Connect the plug from the microphone cable to the MIC socket 15.
- ▶ Lock the plug by screwing down the coupling ring.



Connecting a line source

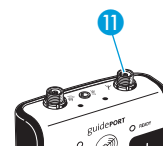
You can connect an external audio source such as a CD player (or other audio device) to the portable transmitter. For this, you require a cable with a 3.5 mm stereo jack plug.

- ▶ Connect the line output of the audio device to the LINE socket 13.



Connecting the antenna

- ▶ Connect the supplied antenna to the ANT antenna socket 11.
- ▶ Lock the antenna by screwing down the coupling ring.



Charging the rechargeable battery

- ▶ Insert the portable transmitter into any charging compartment of the L 3202 charger. All LEDs go off. The portable transmitter turns off automatically. The charge status of the rechargeable battery is indicated by the LEDs on the charger and in the "Receiver Display" area of the "Charger Manager" mod-

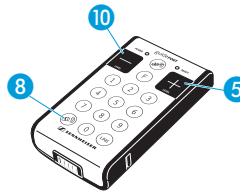
ule.

Note:

Charging takes approx. 4 hours. With a fully charged rechargeable battery, the portable transmitter's operating time is approx. 8 hours.

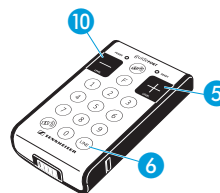
Adjusting the sensitivity of the microphone input

- ▶ Make sure that the microphone is connected and then speak in a normal voice.
- ▶ Keep the MIC key **8** pressed and simultaneously press the LEVEL+ key **5** or the LEVEL- key **10** several times so that the MIC LED **14** always lights up yellow. The MIC LED **14** should only briefly light up red during the loudest passages.



Adjusting the sensitivity of the line input

- ▶ Connect the external audio source, turn it on and start playback.
- ▶ Keep the LINE key **6** pressed and simultaneously press the LEVEL+ key **5** or the LEVEL- key **10** several times so that the LINE LED **12** always lights up yellow. The LINE LED **12** should only briefly light up red during the loudest passages.



Using the SK 3202 portable transmitter

Intended operation	What to do	LED indications/Result
Configuring the portable transmitter	See "Visitor Profiler" software module.	
Automatic turn-on	Remove the portable transmitter from the charger.	The POWER LED ① and the READY LED ④ light up.
Manual turn-on	Briefly press the FUNCTION key ②.	
Automatic turn-off	Insert the portable transmitter into the charger.	The POWER LED ① and the READY LED ④ go off.
Manual turn-off	Press the MUTE key ③ for 5 seconds.	
Muting the microphone	Briefly press the MUTE key ③.	The MIC LED ⑭ flashes red.
Doing a guided tour	The maximum distance between the receivers and the portable transmitter must not exceed 20 m.	The receivers do not react to identifiers or key presses and do not reproduce any Events.
Temporarily interrupting a tour, automatically triggering an Event	Press the FUNCTION key ② for 3 seconds while you are in the magnetic field of the identifier which triggers the desired Event.	The READY LED ④ flashes green slowly. The receivers start reproducing the corresponding Event.

Intended operation	What to do	LED indications/Result
Temporarily interrupting a tour, manually triggering an Event	Briefly press the FUNCTION key 2 , then enter the three-figure Event number via the numeric keys 9 .	The READY LED 4 flashes green. The receivers start reproducing the corresponding Event.
Deactivating the tour interruption	Before starting the tour, use the "Visitor Profiler" software module to set a max. interruption time.	If the maximum interruption time has expired, Event reproduction is automatically stopped.
	Set up a System Event with the ID number 97 and position the identifier(s).	Event reproduction is automatically stopped by an identifier.
	Press the MIC key 8 (only works if no Live Event is transmitted and if the receivers do not perform a download).	The READY LED 4 flashes green. All receivers stop reproducing the Event and receive the portable transmitter's signal again.
Finishing the guided tour	Simultaneously press the FUNCTION key 2 and the MUTE key 3 for 3 seconds.	The READY LED 4 , the LINE LED 12 and the MIC LED 14 go off.

Attaching the portable transmitter to clothing

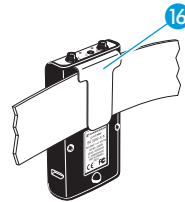
ATTENTION! Danger of short-circuit!



If you put the portable transmitter into a pocket with small parts which conduct electricity such as coins, etc., these can short out the 4-pin connector strip **7**.

- ▶ Keep small parts which conduct electricity away from the portable transmitter.

The portable transmitter is best attached to clothing (e.g. belt, waistband, pocket) with the belt clip **16**. In addition, you can attach a neck strap to the belt clip **16** and wear the portable transmitter around your neck.



Care and maintenance

ATTENTION! Water can damage the electronics of the portable transmitter!



Water or other liquid entering the housing of the portable transmitter can cause a short-circuit and damage the electronics.

- ▶ Only use a clean dry cloth to clean the portable transmitter. Do not use any cleansing agents or solvents.

If a problem occurs ...

Problem	Possible cause	Possible solution
No audio is heard by the receiver(s)	Portable transmitter's rechargeable battery is flat (POWER LED 1 is off)	Recharge the rechargeable battery (see page 10)
	Portable transmitter is muted (MIC LED 14 flashes red rapidly)	Deactivate the muting function (see page 12)
	Tour interruption is activated (READY LED 4 flashes green slowly), but the selected Event has finished playing.	Deactivate the tour interruption function (see page 13)
	Guided tour is finished (LINE LED 12 and MIC LED 14 are both off)	Reconfigure the portable transmitter and the receivers and restart the tour
	Volume on the receiver is adjusted too low	Increase the volume on the receiver
	Transmitter is out of range (approx. 20 m)	Reduce the distance between receiver and portable transmitter
	Portable transmitter and receiver are not on the same channel	Set the portable transmitter and the receivers to the same channel
	Receivers's rechargeable battery is flat	Recharge the rechargeable battery (see page 10)

If a problem occurs that is not listed in the above table or if the problem cannot be solved with the proposed solutions, please contact your local Sennheiser agent for assistance.

Specifications

General	
Temperature range	-10 °C to +50 °C
Dimensions	113 x 65 x 30 mm (incl. belt clip)
Weight (incl. rechargeable batteries)	approx. 180 g
Firmware update	via "Charger Manager" software module

Electrical characteristics	
Power supply	built-in NiMH rechargeable battery pack with two AA size cells, 1.2 V, 2100 mAh
Max. current consumption	220 mA
Typ. operating time	approx. 8 h
Charging time of rechargeable batteries	approx. 4 h

RF characteristics	
Transmission frequency range	2.401920 to 2.481408 GHz
Identifier receiving frequency	127 kHz
Frequency adjustment	one of 93 channels via the "Visitor Profiler" software module
Channel grid	864 kHz
Channel spacing	2.592 MHz (every third channel)
Modulation	FSK (Frequency Shift Keying)

RF characteristics

Frequency deviation	±350 kHz
Data rate	1024 kbit/s
Radiated RF power	USA: 1 mW, Europa 10 mW

Microphone connection

1 x 3-pin Lemo	
Frequency response	80–14,000 Hz, –3 dB cut-off frequency
Max. input level	7 mV _{rms} at max. input gain
	270 mV _{rms} at min. input gain
THD	<1 % at 7 mV _{rms} input level, max. input gain
	<1 % at 270 mV _{rms} input level, min. input gain
Signal-to-noise ratio	≥65 dB (A)

Line connection

1 x 3.5 mm stereo jack socket	
Frequency response	80–14,000 Hz, –3 dB cut-off frequency
Max. input level	0.55 V _{rms} at max. input gain
	1.4 V _{rms} at min. input gain
THD	<1 % at 0.55 V _{rms} input level, max. input gain
	<1 % at 1.4 V _{rms} input level, min. input gain
Signal-to-noise ratio	≥65 dB (A)

Charger connection	
4-pin connector strip	Charging the rechargeable batteries For communication with the "Charger Manager" and "Visitor Profiler" software modules via the charger

Antenna connection
1 x 1-pin coaxial Lemo

Type approvals

Area	Conformity
USA:	FCC-Part 15, 15.249
	FCC ID: DMOSK3202
Canada:	RSS-210
	IC: 2099A-SK3202
EU:	according to R&TTE
	EN 60065
	ETSI EN 300 440-1/-2
	ETSI EN 301 489-1/-3
CE 0682	

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-authorized persons or repair stations.

In the case of a claim under the terms of this guarantee, send the device, including accessories 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

This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EU. The declaration is available on the Internet 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.

Statements regarding FCC and Industry Canada

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

This class B digital apparatus complies with the Canadian ICES-003.

Warning: Changes or modifications made to this equipment not expressly approved by Sennheiser electronic Corp. may void the FCC authorization to operate this equipment.

