



DOCUMENTAZIONE

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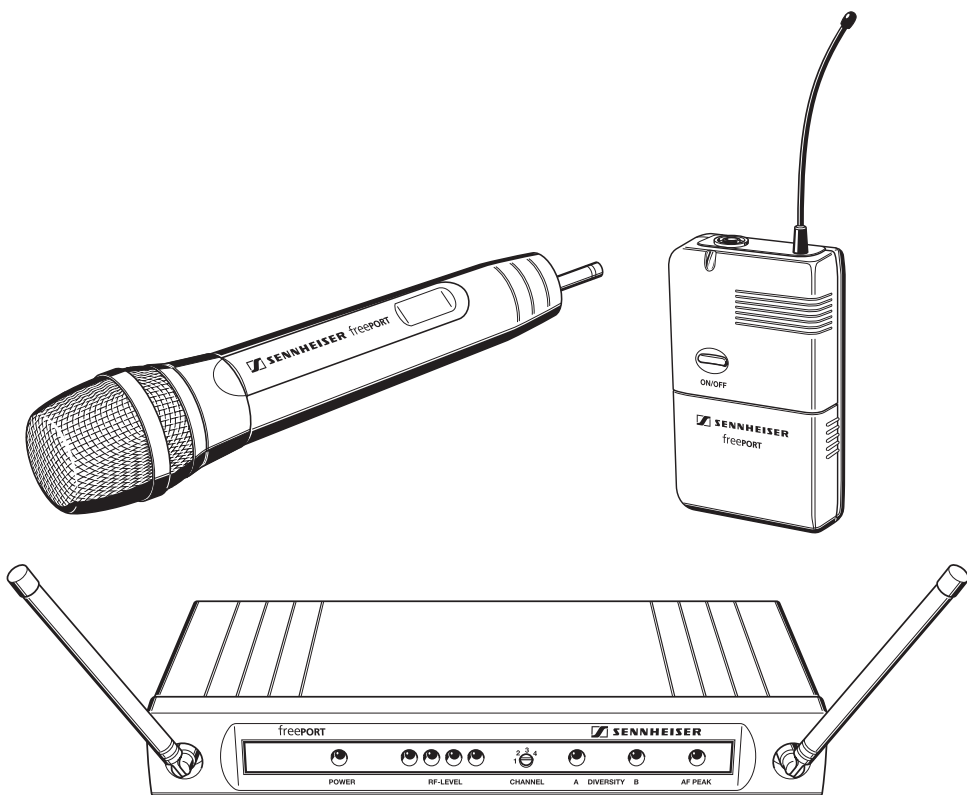
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www.noleggio-audio-luci.it | www.moonwalkgroup.com

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dei produttori per consultare le ultime edizioni disponibili.

freePORT™

Bedienungsanleitung
Instructions for use
Notice d'emploi
Instrucciones de uso



Bedienungsanleitung3

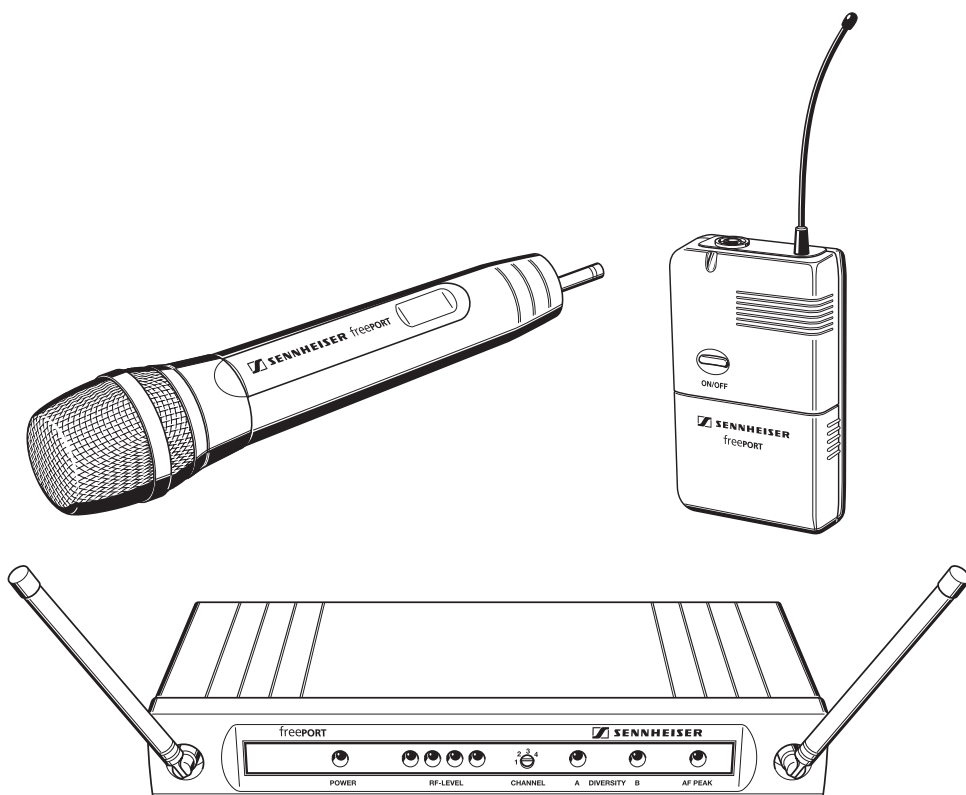
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freePORT™

Instructions for use



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Thank you for choosing Sennheiser!

We have designed this product to give you reliable operation over many years. Over half a century 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.

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.

The freePORT systems

Designed for different areas of application, the freePORT systems are available in three variants.

- **Presentation Set:**
This system is ideal for presentation applications. The unobtrusive ME 2 clip-on microphone is virtually invisible.
- **Instrument Set:**
This system is for connecting musical instruments (e.g. guitar) which have a 1/4" (6.3 mm) jack socket directly to the bodypack transmitter.
- **Vocal Set:**
This system is ideal for vocal and speech applications.

Transmitters and receivers of the freePORT systems have four factory-preset frequencies for direct channel selection – ready for immediate use after switch-on.

The freePORT systems are available in three UHF frequency ranges:

- Frequency range A: 719 to 721 MHz
- Frequency range C: 742.5 to 744.5 MHz
- Frequency range E: 863 to 865 MHz

Hinweise:

The Frequency ranges A and C can only be used in certain areas in the EU and must be licensed with the regulating authorities. Frequency E is license-free in most EU countries (i.e. ETSI signatory countries).

Please be legal and observe the country-specific regulations of the licensing authorities. Sennheiser are not responsible if you operate illegally.

To avoid interfering with other users, the transmitter should be switched off when not in use.

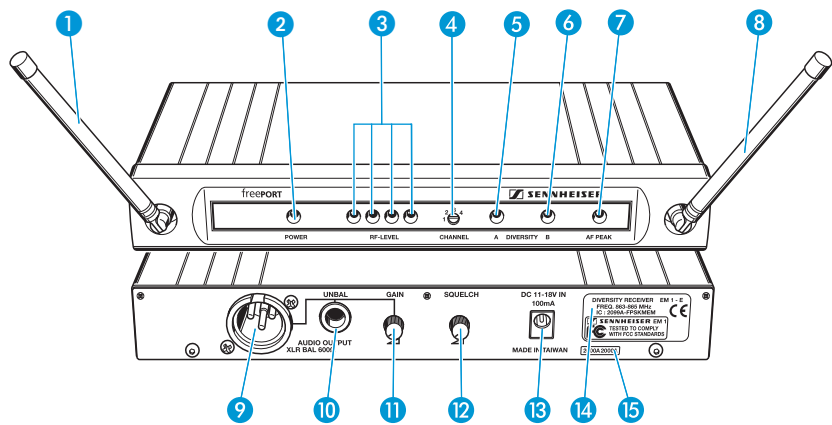
Features of the freePORT systems:

- Up to four transmission links per frequency range which can be operated simultaneously
- Reliable transmission technology
- Diversity technology for minimizing dropouts in the reception
- Adjustable squelch for eliminating RF interference
- Rugged housings
- Crystal-clear reception due to dynamic processor

Delivery includes

FreePORT systems	EM 1 receiver	SK 2 bodypack transmitter	SKM 3 radio microphone	Mains unit	ME 2 clip-on microphone	1/4" (6.3 mm) jack cable	Stand mount	Instructions for use
Presentation Set (Model No. 21101)	X	X		X	X			X
Instrument Set (Model No. 21104)	X	X		X		X		X
Vocal Set (Model No. 21105)	X		X	X			X	X

EM 1 receiver



Operating controls

- 1 Antenna A

2 Operation indication, green LED (POWER)

3 RF level indication, four green LEDs (RF LEVEL)

4 Channel selector switch CHANNEL (1 to 4)

5 Diversity indication, yellow LED A (lights up if antenna 1 is active)

6 Diversity indication, yellow LED B (lights up if antenna 9 is active)

7 AF PEAK, red LED (lights up if the audio level is too high)
- 8 Antenna B

9 Audio output, XLR-3M socket, balanced (AUDIO OUTPUT XLR BAL)

10 Audio output, 1/4" (6.3 mm) jack socket, unbalanced (AUDIO OUTPUT UNBAL)

11 Audio output level control (GAIN)

12 Squelch threshold control (SQUELCH)

13 DC socket for connection of mains unit (DC 11–18 V IN, 100 mA)

14 Type plate

15 Serial number

Connecting the receiver

- ▶ Insert the DC connector on the mains cable into the DC socket 13 and connect it to the mains. The green LED for operation indication (POWER) 2 lights up and the receiver is ready for operation.
- ▶ To deactivate the receiver, remove the mains plug from the mains outlet.

Aligning the antennas

- ▶ Set up the antennas and align them upwards in a V-shape. The LEDs A and B indicate which diversity section (i.e. which antenna) is active.

Connecting the amplifier/mixing console

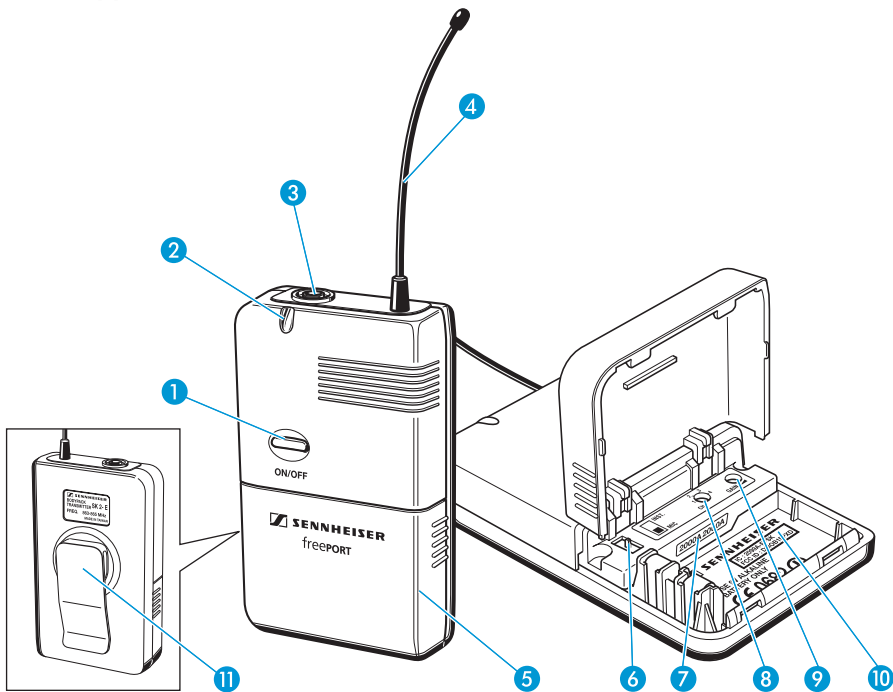
- ▶ Connect the amplifier/mixing console to the XLR-3M socket 9 or the 1/4" (6.3 mm) jack socket 10.
- ▶ Use the GAIN control 11 to adapt the level of the audio output to the input of the amplifier or mixing console. The adjusted audio output level is common for both sockets. If the level is adjusted too high, the audio signal will be distorted. If, on the other hand, the level is adjusted too low, this will result in an audio signal with high background noise.

Selecting and changing a channel

You can change the channel on the receiver during running operation. The receiver then immediately receives on the new channel.

- ▶ Use a small screwdriver to set the channel selector switch 4 to the desired channel. You can switch between four different channels (see "Selecting a channel" on page 24).

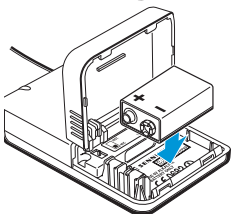
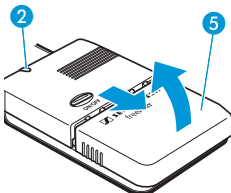
SK 2 bodypack transmitter



Operating controls

- 1 ON/OFF button
- 2 Operation and battery status indication, red LED
- 3 Microphone/instrument input, 3.5 mm jack socket (lockable)
- 4 Antenna (can be screwed off)
- 5 Battery compartment cover
- 6 MIC/INST slide switch
- 7 Serial number
- 8 Channel selector switch CH (1 to 4)
- 9 Sensitivity control GAIN
- 10 Type plate
- 11 Belt clip

Inserting/replacing the battery



We recommend powering the bodypack transmitter by a 9 V PP3 alkaline battery (IEC 6 LR 61). If powered by a rechargeable 9 V battery, the operating time will be drastically reduced.

- ▶ Open the battery compartment by first sliding the battery compartment cover in the direction of the arrow. Then flip the battery compartment cover open.
- ▶ Insert the battery as shown. Please observe correct polarity when inserting the battery.
- ▶ Close the battery compartment.

Note:

When the red LED 2 goes off during operation, you must replace the battery as soon as possible.

Connecting the microphone/instrument cable

The audio input is designed for the connection of both the ME 2 clip-on microphone and instruments (e.g. guitars).

- ▶ Connect the 3.5 mm jack plug from the microphone/instrument cable to the 3.5 mm jack socket ③.
- ▶ Check the setting of the MIC/INST slide switch ⑥ which allows you to switch between microphone and instrument operation. If necessary, readjust the setting.
- ▶ Use the GAIN control ⑨ to adjust the transmitter sensitivity so that the receiver receives a good audio signal (no distortion and no background noise).

Attaching and positioning the microphone



Use the microphone clip to attach the ME 2 clip-on microphone to clothing (e.g. tie, lapel). Conduct the microphone cable so that noise due to friction is avoided and make sure that the antenna and the cable do not cross. The omni-directional microphone picks up sound equally from all directions. However, it should be attached as close as possible to the sound source.

Attaching the bodypack transmitter to clothing

- ▶ Use the supplied belt clip ⑪ to attach the bodypack transmitter to clothing. Make sure that the antenna is at least 1 cm away from the body and is not kinked.

Switching the bodypack transmitter on/off

- ▶ Press the ON/OFF button ① to switch the bodypack transmitter on or off. If the bodypack transmitter is switched on, the red LED ② lights up.

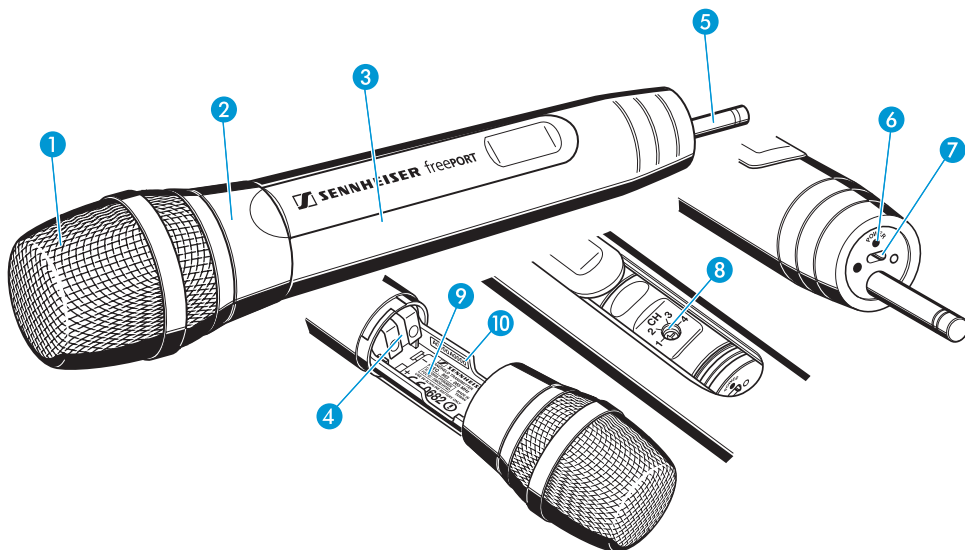
Note:

Remove the battery when the transmitter will not be used for extended periods of time.

Selecting and changing a channel

- ▶ Switch off the transmitter before you change the channel.
- ▶ Use a small screwdriver to set the channel selector switch ⑧ to the desired channel. You can switch between four different channels. When you switch on the bodypack transmitter again, it will transmit on the new channel (see “Selecting a channel” on page 24).

SKM 3 radio microphone



Operating control

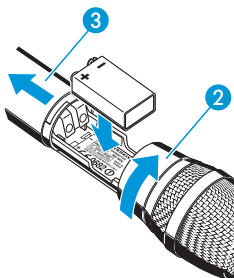
- ① Sound inlet basket
- ② Locking ring of battery compartment
- ③ Body of radio microphone
- ④ Battery compartment (not visible from outside)
- ⑤ Antenna (can be screwed off)
- ⑥ Operation and battery status indication, red LED (POWER)
- ⑦ ON/OFF switch
- ⑧ Channel selector switch CH (1 to 4)
- ⑨ Type plate
- ⑩ Serial number

Note:

The microphone head of the radio microphone cannot be changed.

Inserting/replacing the battery

We recommend powering the radio microphone by a 9 V PP3 alkaline battery (IEC 6 LR 61). If powered by a rechargeable 9 V battery, the operating time will be drastically reduced.



- ▶ Turn the locking ring of the battery compartment ② in the direction of the arrow.
- ▶ Pull the body of the radio microphone ③ in the direction of the arrow as far as it will go.
- ▶ Insert the battery as shown. Please observe correct polarity when inserting the battery.
- ▶ Close and lock the radio microphone.

Note:

When the red LED ⑥ goes off during operation, you must replace the battery as soon as possible.

Switching the radio microphone on/off

- ▶ Use the **ON/OFF** switch ⑦ to switch the radio microphone on or off. If the radio microphone is switched on, the red LED ⑥ lights up.

Note:

Remove the battery when the transmitter will not be used for extended periods of time.

Selecting and changing a channel

- ▶ Switch off the radio microphone.
- ▶ Open the radio microphone (see “Inserting/replacing the battery” on page 22).
- ▶ Use a small screwdriver to set the channel selector switch ⑧ to the desired channel. You can switch between four different channels (see “Selecting a channel” on page 24).
- ▶ Close and lock the radio microphone.
- ▶ Switch on the radio microphone again.

Sensitivity of the radio microphone

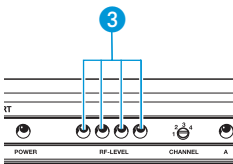
You can vary the bass reproduction by increasing/decreasing the talking distance.

Setting up the system

Before starting transmission, do a soundcheck and set up the system as follows:

Setting up the reception

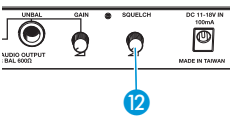
The receiver's four LEDs (RF LEVEL) ③ indicate the level of the received RF signal. With the transmitter, walk up and down the transmission area and check if the received RF signal is sufficient everywhere. Reception is good if all four LEDs light up. Please observe the following:



- Transmission range depends to a large extent on location and can be up to 100 m. Observe a minimum distance of 3 m between transmitter and receiver. There should be a “free line of sight” between transmitting and receiving antennas.
- Do not operate the system close to metal objects such as cross members or reinforced-concrete walls. Computers or mobile phones in direct proximity to the antenna will interfere with the reception.
- Each transmitter requires a receiver. When using several transmission links simultaneously, make sure that all transmission links operate on different channels.

Adjusting the squelch threshold

Interference due to other transmission links can be eliminated as follows:



- ▶ Switch off the transmitter. The receiver should no longer receive a signal.
- ▶ If the receiver still receives a signal, use the **SQUELCH** control 12 to increase the squelch threshold so that the signal will no longer be received. If the signal cannot be eliminated in this way, set the transmitter and the receiver to a different channel.
- ▶ Switch on the transmitter again and check if the receiver receives the transmitter signal.

Note:

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.

Selecting a channel

Transmitters and receivers have four channels respectively with intermodulation-free frequencies.

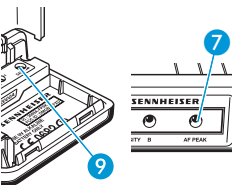
Note:

These frequencies are different to those in evolution systems and freePORT systems should not be used together with evolution systems without great care.

- ▶ Always set the transmitter and the receiver to the same channel.

Adjusting the transmitter sensitivity

- ▶ Use the **GAIN** control 9 on the SK 2 bodypack transmitter to adjust the sensitivity so that even during the loudest passages the **AF PEAK** LED 7 on the EM 1 receiver does not light up.



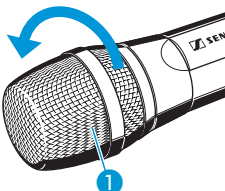
Care and maintenance

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 3's sound inlet basket:



- ▶ Unscrew the sound inlet basket 1 (turn counterclockwise) and remove it.
- ▶ Remove the foam insert and use a slightly damp cloth to clean the sound inlet basket.
- ▶ Reinsert the dry foam insert, replace the sound inlet basket on the SKM 3 and screw it tight.

If problems occur...

Problem	Possible cause	Possible solution
No operation indication	Battery is flat	Replace the battery
	No mains connection (receiver)	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	Reduce the distance between transmitter and receiver
RF signal available, no audio signal	Receiver's squelch threshold is adjusted too high	See "Adjusting the squelch threshold" on page 24
Audio signal has a high level of background noise or is distorted	Transmitter sensitivity is adjusted too low or too high	See "Connecting the microphone/instrument cable" on page 21
	The MIC/INST slide switch on the SK 2 transmitter is not set correctly	
	Receiver's audio output level is adjusted too low or too high	See "Connecting the amplifier/mixing console" on page 19

Accessories and variants

04839	MZW 1	Wind- and popshield for SKM 3
76670	MZQ 1	Microphone clamp for SKM 3
05018	ME 2	Clip-on microphone for SK 2, pre-polarized condenser microphone, omnidirectional
05019	ME 3	Headmic for SK 2, pre-polarized condenser microphone, super-cardioid
05020	ME 4	Clip-on microphone for SK 2, pre-polarized condenser microphone, cardioid
512889	CI1-fp	Guitar cable

Frequency range	Presentation Set	Instrument Set	Vocal Set
719–721 MHz: with US mains unit	freePort fp 12-A-US	freePort fp 72-A-US	freePort fp 35-A-US
742.5–744.5 MHz: with EU mains unit with US mains unit	freePort fp 12-C-EU freePort fp 12-C-US	freePort fp 72-C-EU freePort fp 72-C-US	freePort fp 35-C-EU freePort fp 35-C-US
863–865 MHz: with EU mains unit with UK mains unit	freePort fp 12-E-EU freePort fp 12-E-UK	freePort fp 72-E-EU freePort fp 72-E-UK	freePort fp 35-E-EU freePort fp 35-E-UK

Specifications of the freePORT systems

System characteristics

Transmission/receiving frequencies	4 UHF transmission/receiving frequencies Range A: 719 to 721 MHz (719.15 – 719.75 – 720.15 – 720.85 MHz) Range C: 742.5 to 744.5 MHz (742.65 – 743.35 – 743.85 – 744.45 MHz) Range E: 863 to 865 MHz (863.1 – 863.7 – 864.1 – 864.9 MHz)
Switching bandwidth	2 MHz
Signal-to-noise ratio	> 95 dB(A)
THD (1 kHz)	< 1 %
Temperature range	–10 bis +45 °C / 95 % relative humidity

Individual components

	EM 1 receiver	SK 2 bodypack transmitter	SKM 3 radio microphone
Power supply	12V DC _{NOM} /100 mA	9 V PP3 battery	9 V PP3 battery
Operating time (with alkaline battery)	–	approx. 10 hrs	approx. 10 hrs
Frequency response	–	60...16,000 Hz ± 3 dB	80...16,000 Hz ± 3 dB
RF output power (-3 dB)	–	10 mW	10 mW
AF output voltage	–	–	–
¼" (6.3 mm) jack socket (unbal.):	max. +10 dB _u		
XLR socket (balanced):	max. +16 dB _u		
Dimensions in mm	approx. 35 x 213 x 98	approx. 60 x 100 x 30 (with belt clip)	approx. 285; Ø approx. 35 x 50
Weight	approx. 570 g	approx. 90 g	approx. 210 g
Transducer principle	–	–	dynamic
Pick-up pattern	–	–	cardioid

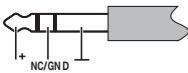
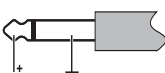
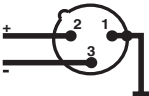
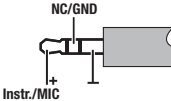
ME 2 clip-on microphone

Transducer principle	pre-polarized condenser
Pick-up pattern	omni-directional

Type approval

EU	see page 51
USA	FCC - Part 74.861 grant of equipment authorization DMOH1FPXD und DMOB1FPXD
Canada	RSS - 123 with authorization IC: 2099A-FPSKMEM und IC: 2099A-FPSK

Connector assignment

EM 1: ¼" (6.3 mm) stereo jack plug,unbalanced	EM 1: ¼" (6.3 mm) mono jack plug,unbalanced	EM 1: XLR-3F connector, balanced	EM 1: DC connector for power supply	SK 2: 3.5 mm jack plug
				

EG-Konformitätserklärung

Diese Geräte entsprechen den grundlegenden Anforderungen und den weiteren Vorgaben der Richtlinien 1999/5/EU, 89/336/EU und 73/23/EU. Die Erklärung steht im Internet unter www.sennheiser.com zur Verfügung.

Vor Inbetriebnahme sind die jeweiligen länderspezifischen Vorschriften zu beachten!

EC Declaration of Conformity

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!

Déclaration de conformité pour la CEE

Ces appareils sont conformes aux exigences essentielles et aux autres dispositions pertinentes de les Directives 1999/5/EC, 89/336/EC et 73/23/EC. Vous trouvez cette déclaration dans la internet sous www.sennheiser.com.

Avant d'utiliser l'appareil, veuillez observer les dispositions légales en vigueur dans votre pays.

Declaración de Conformidad

Este equipo cumple tanto los requisitos esenciales como otras disposiciones de las Directivas 1999/5/CE, 89/336/CE y 73/23/CE. Si desea leer el declaración, visite la página www.sennheiser.com.

!Anterior a la puesta en funcionamiento deberán observarse las correspondientes ordenanzas nacionales!

C € 0682 ⓘ

863 - 865 MHz **CE**

Frequenzbereich, zugelassen in:

Frequency range, approved in:

Bande de fréquence, agréée en:

Banda di frequenza, ammessa in:

Gama de frecuencias, autorizado en:

Frequentiebereik, toegelaten in:

Taajuusalue, hyväksytty:

Gama de frequências, autoriz. em:

Πεδίο συχνοτήτων, με άδεια για:

**A, B, CH, CY, CZ, D, DK, E, EST, F, FIN,
FL, GB, GR, H, I, IRL, IS, L, LT, LV, M,
N, NL, P, PL, S, SK, SLO**

Garantiebestimmungen

Wir übernehmen für das von Ihnen gekaufte Produkt eine Garantie von 24 Monaten. Ausgenommen hiervon sind dem Produkt beigelegte Zubehörartikel, Akkus und Batterien; denn diese Produkte haben wegen ihrer Beschaffenheit eine kürzere Lebensdauer, die zudem im Einzelfall konkret von Ihrer Nutzungsintensität abhängt.

Die Garantiezeit beginnt ab Kaufdatum. Zum Nachweis heben Sie bitte unbedingt den Kaufbeleg auf. Ohne diese Nachweise, die der zuständige Sennheiser-Service-Partner prüft, werden Reparaturen grundsätzlich kostenpflichtig ausgeführt.

Die Garantieleistungen bestehen nach unserer Wahl in der unentgeltlichen Beseitigung von Material- oder Herstellungsfehlern durch Reparatur, Tausch von Teilen oder des kompletten Geräts. Von der Garantie ausgenommen sind Mängel durch unsachgemäßen Gebrauch (z.B. Bedienungsfehler, mechanische Beschädigungen, falsche Betriebsspannung), Verschleiß, aufgrund höherer Gewalt und solche Mängel, die Ihnen beim Kauf bereits bekannt sind. Der Garantieanspruch erlischt bei Eingriffen in das Produkt durch nicht autorisierte Personen oder Werkstätten.

Im Garantiefall senden Sie das Gerät inklusive Zubehör und Kaufbeleg an den für Sie zuständigen Service-Partner. Zur Vermeidung von Transportschäden sollte möglichst die Original-Verpackung verwendet werden.

Ihre gesetzlichen Mängelansprüche aus dem Kaufvertrag gegen den Verkäufer werden durch diese Garantie nicht eingeschränkt. Die Garantie kann weltweit in allen Ländern – außer in den USA – in Anspruch genommen werden, in denen das jeweils nationale Recht unseren Garantiebestimmungen nicht entgegensteht

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 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.

Conditions de garantie

La période de garantie pour ce produit Sennheiser est de 24 mois à compter de la date d'achat. Sont exclues, les batteries rechargeables ou jetables livrées avec le produit. En raison de leurs caractéristiques ces produits ont une durée de vie plus courte liée principalement à la fréquence d'utilisation.

La période de garantie commence à la date de l'achat. Pour cette raison, nous vous recommandons de conserver votre facture comme preuve d'achat. Sans cette preuve -qui est vérifiée par Sennheiser -aucune prise en compte de la garantie ne pourra être retenue.

La garantie comprend, gratuitement, la remise en état de fonctionnement du matériel par la réparation ou le remplacement des pièces défectueuses ou dans le cas où la réparation n'est pas possible, par échange du matériel. L'utilisation inadéquate (mauvaise utilisation, dégâts mécaniques, tension électrique incorrecte), sont exclus de la garantie. La garantie est invalidée en cas d'intervention par des personnes non-autorisées ou des stations de réparation non agréées.

Pour faire jouer la garantie, retournez l'appareil et ses accessoires, accompagnés de la facture d'achat, à votre distributeur agréé. Pour éviter des dégâts durant le transport il est recommandé d'utiliser l'emballage d'origine.

Votre droit légal de recours contre le vendeur n'est pas limité par cette garantie. La garantie peut être revendiquée dans tous les pays à l'extérieur des Etats-Unis à condition qu'aucune loi nationale n'en invalide les termes.

Declaración de garantía

El periodo de garantía para este producto es de 24 meses desde la fecha de compra. Quedan excluidos los accesorios adjuntos al producto, acumuladores y baterías dado que, debido a sus características, la vida útil de dichos productos es mucho más corta y, en determinados casos, depende concretamente de la intensidad de utilización. El periodo de garantía comienza a partir de la fecha de compra. Por eso le recomendamos que guarde el recibo como prueba de compra. Sin dicha prueba, que será verificada por el respectivo concesionario Sennheiser, cualquier reparación que sea necesaria será efectuada contra factura.

Según determine el fabricante, las prestaciones de garantía consistirán en la eliminación gratuita de defectos de materiales o fabricación, por medio de reparación, sustitución de piezas, o bien en la sustitución del aparato completo. La garantía no tendrá validez en caso de defectos ocasionados por un uso inadecuado (tales como manejo incorrecto daños mecánicos, tensión de servicio equivocada), desgaste, o bien efectos de fuerza mayor, y desperfectos ya detectados en el momento de adquirir el producto. La garantía carecerá de validez si el defecto se debe a modificaciones y reparaciones hechas en el producto por personas o talleres no autorizados.

En caso de reclamación sirvase remitir el aparato incluyendo los accesorios y la factura al concesionario Sennheiser encargado de su zona. A fin de evitar daños durante el transporte se aconseja emplear el envase original. Las pretensiones legales por defectos y emanadas del contrato de compraventa frente al vendedor, no quedan limitadas por esta garantía.

La garantía esta disponible en todos los países a excepción de EE.UU., siempre que la legislación nacional aplicable no sea contraria a nuestras determinaciones de garantía.



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