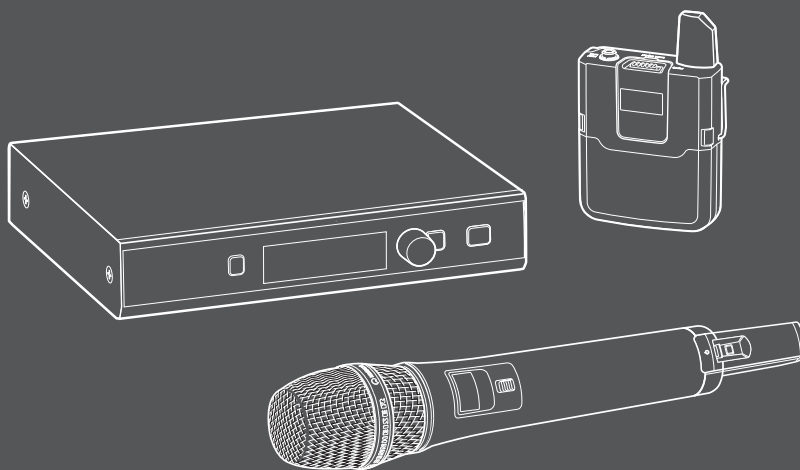


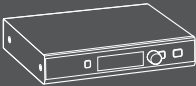




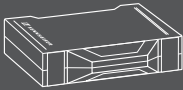



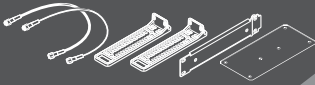


SpeechLine DW



Technische Daten
Specifications
Caractéristiques techniques
Dati tecnici
Especificaciones técnicas
Datos técnicos

Technische specificaties
Технические характеристики
技術参数
技術データ
기술 데이터

 **SENNHEISER**

	SL Lavalier Set C	SL Headmic Set C	SL Handheld Set C	SL Rack Receiver	SL Lavalier Set R	SL Headmic Set R	SL Handheld Set R
	•	•	•	•	•	•	•
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SpeechLine Digital Wireless

Technische Daten

System

NF-Übertragungsbereich	20 bis 20.000 Hz	
Dynamikbereich	> 120 dB (A)	
THD (1 kHz)	typ. 0,1 %	
Audio Sampling	24 bit/48 kHz	
Signal/Rauschabstand	> 90 dB (A)	
Encryption	AES 256	
HF-Frequenzbereiche	EU:	1.880 bis 1.900 MHz
	USA:	1.920 bis 1.930 MHz
	Brasilien:	1.910 bis 1.920 MHz
	Taiwan:	1.880 bis 1.895 MHz
	Japan:	1.893 bis 1.906 MHz
Modulation	GFSK mit Datenrückkanal	
Übertragungssystem	TDMA, Space diversity	
Latenz	19 ms	
relative Luftfeuchte	max. 95 %	
Temperaturbereich*	im Betrieb:	-10 °C bis +55 °C
	Lagerung:	-20 °C bis +70 °C

* Die Batterie-Eigenschaften beeinflussen diesen Temperaturbereich

SL Rack Receiver



HF-Empfindlichkeit	< -90 dBm	
Sendeleistung Rückkanal	adaptiv bis zu 250 mW (länderspezifisch)	
Digital Gain	Mic/Line level switch:	-24 dB/0 dB
einstellbar in 6-dB-Schritten	XLR, symmetrisch:	max. +18 dBu
	Cinch, unsymmetrisch:	max. +6 dBu
Audio-Effekte	Low Cut:	-3 dB bei 120 Hz
	Equalizer:	7-Band-Graphic-Equalizer mit Sound-Presets
	Automatic Gain Control AGC:	
	Kompression/Expansion mit automatischer Make-Up-Gain-Funktion	
Display	OLED	
Netzwerkprotokoll	Media Control Protocol, TCP/IP IPv4 (DHCP, Manual)/IPv6	
Spannungsversorgung	12 V DC	
Stromaufnahme	350 mA	
NF-Anschlussbuchsen	XLR/2 x Cinch	
Antennenbuchsen	2 x Rev-SMA	
Netzwerkbuchse	RJ45	
Stromanschluss	Hohlklinke	
Gewicht	ca. 828 g	

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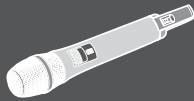
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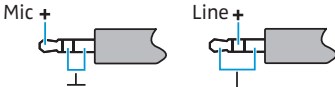
SL Handheld



Sendeleistung	adaptiv bis zu 250 mW (länderspezifisch)
NF-Übertragungsbereich	50 bis 20.000 Hz
Eingangsempfindlichkeit	Automatic Sensitivity Adjustment
Spannungsversorgung	Akkupack: BA 10 (Li-Ion, 3,7 V) Batterien*: 2 x Mignon AA (1,5 V)
Batterielaufzeit	Akkupack: typ. 15 h Batterien*: typ. 10 h
Display	LCD
Mute-Schalter	vorhanden
Gewicht (ohne Akkupack)	ca. 262 g inkl. Kapsel
* optionales Zubehör	

SL Bodypack




Sendeleistung	adaptiv bis zu 250 mW (länderspezifisch)
NF-Übertragungsbereich	Mic: 50 bis 20.000 Hz Line: 20 bis 20.000 Hz
Max. Eingangspegel	Mic: 2,2 V RMS Line: 3,3 V RMS
Eingangsimpedanz Line	1 M Ω
Eingangsempfindlichkeit	Automatic Sensitivity Adjustment
Spannungsversorgung	Akkupack: BA 30 (Li-Ion, 3,7 V) Batterien*: 2 x Mignon AA (1,5 V)
Batterielaufzeit	Akkupack: typ. 15 h Batterien*: typ. 11 h
NF-Anschlussbuchse	3,5 mm-Klinkenbuchse, verschraubbar
	
Gewicht (ohne Akkupack)	ca. 88 g
* optionales Zubehör	

Mikrofone







	MME 865-1	MKE 1	SL Headmic 1
Mikrofontyp	dauerpolarisiertes Kondensatormikrofon		
Empfindlichkeit	1,6 mV/Pa	5 mV/Pa	5 mV/Pa
Richtcharakteristik	Superniere	Kugel	Kugel
Max. Schalldruckpegel	152 dB SPL	142 dB SPL	142 dB SPL

Anforderungen werden erfüllt für:

Europa		Funk	EN 301406
		EMV	EN 301489-1/-6
		Sicherheit	EN 60950-1, EN 62311 (SAR)
		RoHS	EN 50581
USA		FCC 47 CFR 15	
Kanada		Industry Canada RSS 210, CAN ICES-3(B)/NMB-3(B)	

Zugelassen für:

USA	SL Rack Receiver	FCC ID: DMOEM1G9WE
	SL Handheld	FCC ID: DMOSKM1G9WE
	SL Bodypack	FCC ID: DMOSK1G9WE
Kanada	SL Rack Receiver	IC: 2099A-EM1G9WE
	SL Handheld	IC: 2099A-SKM1G9WE
	SL Bodypack	IC: 2099A-SK1G9WE
Australien/Neuseeland		
Japan	SL Rack Receiver	 202-SMC048
	SL Handheld	 202-SMC049
	SL Bodypack	 202-SMC050

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Netzteile

	NT 12-4C	NT 2-3
Nenneingangsspannung	100 bis 240 V~	
Netzfrequenz	50 oder 60 Hz	
Eingangsstrom	max. 120 mA	
Nennausgangsspannung	12 V 	
Stand-by-Leistungsaufnahme	≤ 0,3 W	
Energie-Effizienz-Klasse	V	IV
Betriebstemperatur	-10 °C bis +55 °C	
Lagertemperatur	-20 °C bis +70 °C	
Relative Luftfeuchte	max. 95 %	
Gewicht	ca. 100 g	ca. 105 g

Anforderungen werden erfüllt für:

Europa		EMV	EN 55022, EN 55024
		Sicherheit	EN 60065
		RoHs	EN 50581
		Energie Effizienz Verordnung Nr.	1275/2008
USA/Kanada	EMV	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B)	
	Sicherheit	UL 60065 CAN/CSA-C22.2 No. 60065	
	China	EMV Sicherheit RoHs	GB13837, GB17625 GB8898 
Australien/Neuseeland	EMV	AS/NZS CISPR 22	
	Sicherheit	AS/NZS 60065	

Zertifiziert nach:


Europa	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
USA/Kanada	
Australien/Neuseeland	
Japan	 <small>ゼンハイザージャパン(株)</small>
China	 (nur NT 2-3)
Korea	 KTL SU 10524-13002 (nur NT 2-3)
Russland	 ME95

Akkupacks



	BA 10	BA 30
Ladekapazität	2200 mAh	2030 mAh
Ausgangsspannung	3,6 V	3,7 V

Anforderungen werden erfüllt für:

Europa		EMV Sicherheit	EN 301489-1/-6/-17 IEC/EN 62133
USA/Kanada		Akkuzellen Akkupack	UL 1642 UL 2054
Japan		DENAN Ordinance Article 1; Appendix 9 Lithium Ion	
Korea		Sicherheit	K 62133
UN Transporttest		gemäß UN-Prüfhandbuch Teil III, Abschnitt 38.3 Lithiumbatterien	

Zertifiziert nach:

USA/Kanada



Japan



ゼンハイザージャパン(株)

Korea




Herstellererklärungen

Garantie

- Sennheiser electronic GmbH & Co. KG übernimmt für dieses Produkt eine Garantie von 24 Monaten.
- Die aktuell geltenden Garantiebedingungen können Sie über das Internet www.sennheiser.com oder Ihren Sennheiser-Partner beziehen.

In Übereinstimmung mit folgenden Anforderungen

- WEEE-Richtlinie (2012/19/EU)
 Bitte entsorgen Sie die Produkte am Ende ihrer Nutzungsdauer bei Ihrer örtlichen kommunalen Sammelstelle oder im Recycling Center.
- Batterierichtlinie (2006/66/EG)
Die mitgelieferten Akkus oder Batterien sind recyclingpflichtig. Bitte entsorgen Sie Akkus bzw. Batterien über offizielle Sammelstellen oder den Fachhandel. Entsorgen Sie nur leere Batterien oder Akkus, um den Umweltschutz zu gewährleisten.

CE-Konformität

- **CE 0682**
- R&TTE-Richtlinie (1999/5/EG)
- RoHS-Richtlinie (2011/65/EU)
- EMV-Richtlinie (2004/108/EU)
- Niederspannungs-Richtlinie (2006/95/EU)

Die Erklärungen stehen im Internet unter www.sennheiser.com zur Verfügung. Vor Inbetriebnahme sind die jeweiligen länderspezifischen Vorschriften zu beachten.

SpeechLine Digital Wireless Specifications

System

AF frequency response	20 to 20,000 Hz	
Dynamic range	> 120 dB (A)	
THD (1 kHz)	typ. 0.1 %	
Audio sampling	24 bit/48 kHz	
Signal-to-noise ratio	> 90 dB (A)	
Encryption	AES 256	
RF frequency ranges	EU:	1,880 to 1,900 MHz
	USA:	1,920 to 1,930 MHz
	Brazil:	1,910 to 1,920 MHz
	Taiwan:	1,880 to 1,895 MHz
	Japan:	1,893 to 1,906 MHz
Modulation	GFSK with back channel	
Transmission method	TDMA, space diversity	
Latency	19 ms	
relative air humidity	max. 95 %	
Temperature range*	Operation:	-10 °C to +55 °C
	Storage:	-20 °C to +70 °C

* The temperature range is influenced by the battery characteristics

SL Rack Receiver



RF sensitivity	< -90 dBm	
RF output power back channel	adaptive, up to 250 mW (country-specific)	
Digital gain adjustable in 6-dB steps	Mic/line level switch:	-24 dB/0 dB
	XLR, balanced:	max. +18 dBu
	RCA, unbalanced:	max. +6 dBu
Audio effects	Low cut:	-3 dB at 120 Hz
	Equalizer:	7-band graphic equalizer with sound presets
	Automatic gain control AGC:	compression/expansion with automatic make-up gain function
Display	OLED	
Network protocol	Media Control Protocol, TCP/IP IPv4 (DHCP, Manual)/IPv6	
Power supply	12 V DC	
Current consumption	350 mA	
AF connection sockets	XLR/2 x RCA	
Antenna sockets	2 x Rev-SMA	
Network socket	RJ45	
DC socket for power supply	hollow jack	
Weight	approx. 828 g	

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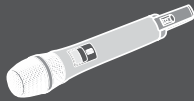
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SL Handheld



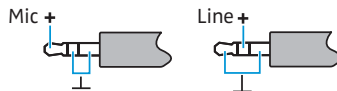
RF output power	adaptive, up to 250 mW (country-specific)
AF frequency response	50 to 20,000 Hz
Input sensitivity	automatic sensitivity adjustment
Power supply	Accupack: BA 10 (Li-Ion, 3.7 V) Batteries*: 2 x AA size battery (1.5 V)
Operating time	Accupack: typ. 15 h Batteries*: typ. 10 h
Display	LCD
Mute switch	available
Weight (w/o accupack)	approx. 262 g incl. microphone head

* optional accessory

SL Bodypack



RF output power	adaptive, up to 250 mW (country-specific)
AF frequency response	Mic: 50 to 20,000 Hz Line: 20 to 20,000 Hz
Max. input level	Mic: 2.2 V RMS Line: 3.3 V RMS
Line input impedance	1 M Ω
Input sensitivity	automatic sensitivity adjustment
Power supply	Accupack: BA 30 (Li-Ion, 3.7 V) Batteries*: 2 x AA size battery(1.5 V)
Operating time	Accupack: typ. 15 h Batteries*: typ. 11 h
AF connection socket	3.5 mm jack socket, lockable



Weight (w/o accupack)	approx. 88 g
-----------------------	--------------

* optional accessory

Microphones



	MME 865-1	MKE 1	SL Headmic 1
Microphone type	pre-polarized condenser microphone		
Sensitivity	1.6 mV/Pa	5 mV/Pa	5 mV/Pa
Pick-up pattern	super-cardioid	omni-directional	omni-directional
Max. SPL	152 dB SPL	142 dB SPL	142 dB SPL

In compliance with

Europe		Radio	EN 301406
		EMC	EN 301489-1/-6
		Safety	EN 60950-1
			EN 62311 (SAR)
		RoHS	EN 50581
USA	FCC 47 CFR 15		
Canada	Industry Canada RSS 210 CAN ICES-3(B)/NMB-3(B)		

Approved by

USA	SL Rack Receiver	FCC ID: DMOEM1G9WE
	SL Handheld	FCC ID: DMOSKM1G9WE
	SL Bodypack	FCC ID: DMOSK1G9WE
Canada	SL Rack Receiver	IC: 2099A-EM1G9WE
	SL Handheld	IC: 2099A-SKM1G9WE
	SL Bodypack	IC: 2099A-SK1G9WE

Australia/New Zealand



Japan



SL Rack Receiver		202-SMC048
SL Handheld		202-SMC049
SL Bodypack		202-SMC050

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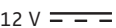
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Power supply units

	NT 12-4C	NT 2-3
Nominal input voltage	100 to 240 V~	
Power frequency	50 or 60 Hz	
Input current	max. 120 mA	
Nominal output voltage	12 V 	
Standby power consumption	≤ 0.3 W	
Energy efficiency level	V	IV
Operating temperature	-10 °C to +55 °C	
Storage temperature	-20 °C to +70 °C	
Relative air humidity	max. 95 %	
Weight	approx. 100 g	approx. 105 g

In compliance with

Europe		EMC	EN 55022 EN 55024
		Safety	EN 60065
		RoHs	EN 50581
		Commision Regulation (EC) No.	1275/2008
		USA/Canada	EMC
	Safety	UL 60065 CAN/CSA-C22.2 No. 60065	
China	EMC	GB13837, GB17625	
	Safety	GB8898	
	RoHs		
Australia/New Zealand	EMC	AS/NZS CISPR 22	
	Safety	AS/NZS 60065	

Certified by


Europe	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
USA/Canada	
Australia/ New Zealand	
Japan	 <small>ゼンマイチャージパック(株)</small>
China	 (NT 2-3 only)
Korea	 KTL SU 10524-13002 (NT 2-3 only)
Russia	

Accupacks



	BA 10	BA 30
Charging capacity	2200 mAh	2030 mAh
Output voltage	3.6 V	3.7 V

In compliance with

Europe		EMC Safety	EN 301489-1/-6/-17 IEC/EN 62133
USA/Canada		Rechargeable battery cells Accupack	UL 1642 UL 2054
Japan		DENAN Ordinance Article 1; Appendix 9 Lithium Ion	
Korea		Safety	K 62133
UN transportation test		according to UN Manual of Tests and Criteria, Part III, section 38.3 Lithium-ion batteries	

Certified by

USA/Canada



Japan



ゼンハイザージャパン(株)

Korea



Manufacturer Declarations

Warranty

Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on this product.

For the current warranty conditions, please visit our website at www.sennheiser.com or contact your Sennheiser partner.

FOR AUSTRALIA ONLY

Sennheiser goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.


This warranty is in addition to other rights or remedies under law. Nothing in this warranty excludes, limits or modifies any liability of Sennheiser which is imposed by law, or limits or modifies any remedy available to the consumer which is granted by law.

To make a claim under this warranty, contact Sennheiser Australia Pty Ltd, Unit 3, 31 Gibbes Street Chatswood NSW 2067, AUSTRALIA. Phone: (02) 9910 6700, email: service@sennheiser.com.au.

All expenses of claiming the warranty will be borne by the person making the claim.

The Sennheiser International Warranty is provided by Sennheiser Australia Pty Ltd (ABN 68 165 388 312), Unit 3, 31 Gibbes Street Chatswood NSW 2067 Australia.

In compliance with the following requirements

- WEEE Directive (2012/19/EU)
 Please dispose of the products at the end of their operational lifetime by taking them to your local collection point or recycling center for such equipment.
- Battery Directive (2006/66/EC)
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 or rechargeable batteries.

CE Conformity

- **CE 0682**
- R&TTE Directive (1999/5/EC)
- RoHS Directive (2011/65/EU)
- EMC Directive (2004/108/EC)
- Low Voltage Directive (2006/95/EC)

The declarations are available at www.sennheiser.com. Before putting the products into operation, please observe the respective country-specific regulations.

FCC

Radiofrequency radiation exposure Information:

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. The SL Rack Receiver should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

These devices must not be co-located or operated in conjunction with any other antenna or transmitter.

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These devices comply with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s).

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.

NOTICE:

Changes or modifications made to this equipment not expressly approved by Sennheiser Electronic Corporation may void the FCC authorization to operate this equipment.

NOTE: 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:

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

These class B digital devices comply with the Canadian ICES-003.

Japanese Radio Law and Japanese Telecommunications Business Law Compliance.

This device is granted pursuant to the Japanese Radio Law (電波法)

This device should not be modified (otherwise the granted designation number will become invalid)

SpeechLine Digital Wireless

Caractéristiques techniques

Système

Réponse en fréquence BF	20 à 20.000 Hz	
Plage dynamique	> 120 dB (A)	
THD (1 kHz)	typ. 0,1 %	
Échantillonnage audio	24 bit/48 kHz	
Rapport signal/bruit	> 90 dB (A)	
Cryptage	AES 256	
Plages de fréquence HF	UE :	1.880 à 1.900 MHz
	États-Unis :	1.920 à 1.930 MHz
	Brésil :	1.910 à 1.920 MHz
	Taiwan :	1.880 à 1.895 MHz
	Japon :	1.893 à 1.906 MHz
Modulation	GFSK avec canal de retour	
Méthode de transmission	TDMA, diversité d'espace	
Latence	19 ms	
humidité relative de l'air	max. 95 %	
Plage de température*	Fonctionnement:	-10 °C à +55 °C
	Stockage:	-20 °C à +70 °C

* Les caractéristiques des piles/packs accus ont une influence sur la plage de température

SL Rack Receiver



Sensibilité HF	< -90 dBm	
Puissance de sortie HF canal de retour	auto-réglage adaptatif, jusqu'à 250 mW (spécifique au pays)	
Digital Gain	Commutateur niveau micro/	
réglable par pas de 6 dB	ligne :	-24 dB/0 dB
	XLR, symétrique :	max. +18 dBu
	RCA, asymétrique :	max. +6 dBu
Effets audio	Low Cut:	-3 dB à 120 Hz
	Equalizer:	égaliseur graphique à 7 bandes avec presets sonores
	Automatic Gain Control (AGC) : compression/expansion avec fonction gain automatique	
Écran	OLED	
Protocole réseau	Media Control Protocol, TCP/IP IPv4 (DHCP, Manual)/IPv6	
Alimentation	12 V CC	
Consommation	350 mA	
Prises de connexion BF	XLR/2 x RCA	
Prises d'antenne	2 x Rev-SMA	
Prise réseau	RJ45	
Raccordement électrique	prise pour fiche creuse	
Poids	env. 828 g	

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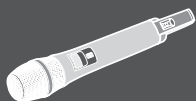
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SL Handheld

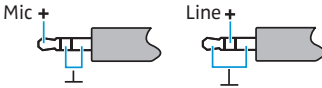


Puissance de sortie HF	auto-réglage adaptatif, jusqu'à 250 mW (spécifique au pays)
Réponse en fréquence BF	50 à 20.000 Hz
Sensibilité d'entrée	réglage automatique de la sensibilité
Alimentation	Pack accu : BA 10 (Li-Ion, 3,7 V) Piles* : 2 x pile de type AA (1,5 V)
Autonomie	Pack accu : typ. 15 h Piles* : typ. 10 h
Écran	LCD
Commutateur Mute	disponible
Poids (sans pack accu)	env. 262 g avec tête de micro

* Accessoire optionnel

SL Bodypack



Puissance de sortie HF	auto-réglage adaptatif, jusqu'à 250 mW (spécifique au pays)
Réponse en fréquence BF	Microphone : 50 à 20.000 Hz Ligne : 20 à 20.000 Hz
Niveau d'entrée max.	Microphone : 2,2 V RMS Ligne : 3,3 V RMS
Impédance d'entrée ligne	1 M Ω
Sensibilité d'entrée	réglage automatique de la sensibilité
Alimentation	Pack accu : BA 30 (Li-Ion, 3,7 V) Piles* : 2 x pile de type AA (1,5 V)
Autonomie	Pack accu : typ. 15 h Piles* : typ. 11 h
Prise de connexion BF	prise jack 3,5 mm, verrouillable 
Poids (sans pack accu)	env. 88 g

* Accessoire optionnel

Microphones



	MME 865-1	MKE 1	SL Headmic 1
Type de micro	micro statique à polarisation permanente		
Sensibilité	1,6 mV/Pa	5 mV/Pa	5 mV/Pa
Directivité	super-cardioïde	omni	omni
Max. SPL	152 dB SPL	142 dB SPL	142 dB SPL

Conformes aux normes

Europe		Radio	EN 301406
		CEM	EN 301489-1/-6
		Sécurité	EN 60950-1
			EN 62311 (SAR)
		RoHS	EN 50581

États-Unis	FCC 47 CFR 15
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Canada	Industrie Canada CNR 210 CAN ICES-3(B)/NMB-3(B)
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Homologation pour

États-Unis	SL Rack Receiver	FCC ID : DMOEM1G9WE
	SL Handheld	FCC ID : DMOSKM1G9WE
	SL Bodypack	FCC ID : DMOSK1G9WE

Canada	SL Rack Receiver	IC : 2099A-EM1G9WE
	SL Handheld	IC : 2099A-SKM1G9WE
	SL Bodypack	IC : 2099A-SK1G9WE

Australie/Nouvelle Zélande	
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Japon	SL Rack Receiver		202-SMC048
	SL Handheld		202-SMC049
	SL Bodypack		202-SMC050

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Blocs secteurs

	NT 12-4C	NT 2-3
Tension d'entrée nominale	100 à 240 V~	
Fréquence secteur	50 ou 60 Hz	
Courant d'entrée	max. 120 mA	
Tension de sortie nominale	12 V 	
Consommation en mode veille	≤ 0,3 W	
Catégorie de rendement énergétique	V	IV
Température de fonctionnement	-10 °C à +55 °C	
Température de stockage	-20 °C à +70 °C	
Humidité relative de l'air	max. 95 %	
Poids	env. 100 g	env. 105 g

Conformes aux normes

Europe 	CEM	EN 55022 EN 55024
	Sécurité	EN 60065
	RoHs	EN 50581
	Règlement CE no	1275/2008
États-Unis/Canada	CEM	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B)
	Sécurité	UL 60065 CAN/CSA-C22.2 No. 60065
China	CEM	GB13837, GB17625
	Sécurité	GB8898
	RoHs	
Australie/Nouvelle Zélande	CEM	AS/NZS CISPR 22
	Sécurité	AS/NZS 60065

Certifications


Europe	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
États-Unis/Canada	
Australie/Nouvelle Zélande	
Japon	 <small>センセイザーション(株)</small>
Chine	 (NT 2-3 uniquement)
Corée	 KTL SU 10524-13002 (NT 2-3 uniquement)
Russie	 ME95

Packs accus



	BA 10	BA 30
Capacité de chargement	2200 mAh	2030 mAh
Tension de sortie	3,6 V	3,7 V

Conformes aux normes

Europe		CEM Sécurité	EN 301489-1/-6/-17 IEC/EN 62133
États-Unis/Canada		Cellules accus Pack accu	UL 1642 UL 2054
Japon		DENAN Ordinance Article 1; Appendix 9 Lithium Ion	
Corée		Sécurité	K 62133
Homologation ONU Transport de Matières Dangereuses		selon le Manuel d'épreuves et de critères, 3e partie, section 38.3, piles ou batteries Lithium	

Certifications

États-Unis/Canada



Japon



センハイサーシャパン(株)

Corée




Déclarations du fabricant

Garantie

- Sennheiser electronic GmbH & Co. KG offre une garantie de 24 mois sur ce produit.
- Pour avoir les conditions de garantie actuelles, veuillez consulter notre site web sur www.sennheiser.com ou contacter votre partenaire Sennheiser.

En conformité avec les exigences suivantes

- Directive WEEE (2012/19/EU)
 En fin de vie veuillez rapporter ces produits à la déchetterie communale ou à un centre de recyclage.
- Directive Piles et Accumulateurs (2006/66/CE)
Les accus ou piles fournis peuvent être recyclés. Jetez les accus ou piles usagés dans un conteneur de recyclage ou ramenez-les à votre revendeur. Afin de protéger l'environnement, déposez uniquement des accus ou piles complètement déchargés.

Déclaration de conformité pour la CE

- **CE 0682**
- Directive R&TTE (1999/5/CE)
- Directive RoHS (2011/65/UE)
- Directive CEM (2004/108/UE)
- Directive Basse Tension (2006/95/UE)

Vous trouverez ces déclarations sur www.sennheiser.com. Avant d'utiliser les produits, veuillez observer les dispositions légales en vigueur dans votre pays.

FCC

Information sur l'exposition aux radiofréquences :

Cet équipement est conforme aux limites d'exposition aux rayonnements de la FCC et d'Industrie Canada établies pour un environnement non contrôlé. Le SL Rack Receiver doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Ces appareils ne doivent pas être positionnés à proximité d'une autre antenne ou d'un autre émetteur, ni utilisés avec une autre antenne ou un autre émetteur.

Ces appareils sont conformes à la Partie 15 des réglementations de la FCC [et aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence].

L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

AVIS :

Toute modification non expressément approuvée par Sennheiser electronic Corporation peut annuler le droit de l'utilisateur à l'emploi de l'équipement en question.

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NOTE : Cet équipement a été testé et trouvé conforme aux limites définies pour un dispositif numérique de classe B, dans le cadre de la Partie 15 des réglementations de la FCC. Ces limites sont conçues pour offrir une protection raisonnable contre les interférences nocives pour une installation résidentielle. Cet équipement produit, utilise et peut émettre une énergie haute fréquence et, s'il n'est pas installé et utilisé conformément aux instructions, provoquer des interférences gênantes pour les communications radio. Des risques d'interférences ne peuvent toutefois pas être totalement exclus dans certaines installations. Dans le cas d'interférences gênantes pour la réception des émissions de radio ou télédiffusées (il suffit, pour le constater, d'allumer et d'éteindre l'équipement), l'utilisateur est invité à prendre l'une des mesures suivantes pour les éliminer :

- Réorienter ou déplacer l'antenne réceptrice.
- Éloigner l'équipement du récepteur.
- Brancher l'équipement sur une prise ou un circuit différent de celui du récepteur.
- Consulter un revendeur ou un technicien de radio ou télévision expérimenté.

Ces appareils numériques de la classe B sont conformes à la norme NMB-003 du Canada.

SpeechLine wireless digitale

Dati tecnici

Sistema

Campo di trasmissione a bassa frequenza	da 20 fino a 20.000 Hz
Range dinamico	> 120 dB (A)
THD (1 kHz)	tipic. 0,1%
Campionamento audio	24 bit / 48 kHz
Rapporto segnale/rumore	> 90 dB (A)
Crittografia	AES 256
Campi di frequenza AF	EU: da 1880 a 1900 MHz USA: da 1920 a 1930 MHz Brasile: da 1910 fino a 1920 MHz Taiwan: da 1880 fino a 1895 MHz Giappone: da 1893 fino a 1906 MHz
Modulazione	GFSK con canale di ritorno dati
Sistema di trasmissione	TDMA, diversità spaziale
Latenza	19 ms
umidità relativa dell'aria	max 95%
Campo di temperatura	Funzionamento: da -10 °C a +55 °C Stoccaggio: da -20 °C a +70 °C

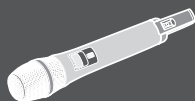
* Le caratteristiche della batteria influiscono sul campo di temperatura

Ricevitore rack SL



Sensibilità HF	< -90 dBm
Canale di ritorno di potenza di trasmissione	adattivo fino a 250 mW (specifico per Paese)
Guadagno digitale regolabile in passi da 6 dB	Interruttore di livello Mic/Line: -24 dB/0 dB XLR, simmetrico: max. +18 dBu Cinch, asimmetrico: max. +6 dBu
Effetti audio	Low Cut: -3 dB a 120 Hz Equalizzatore: equalizzatore grafico a 7 bande con impostazioni suono predefinite
Display	Controllo automatico del guadagno CAG: compressione/espansione con funzione Make-Up Gain automatica OLED
Protocollo di rete	Media Control Protocol, TCP/IP IPv4 (DHCP, manuale)/IPv6
Alimentazione	12 V CC
Corrente assorbita	350 mA
Prese di collegamento BF	XLR/2 Cinch
Prese per antenne	2 Rev-SMA
Presa di rete	RJ45
Presa di corrente	spinotto
Peso	circa 828 g

SL portatile



Potenza di trasmissione	adattivo fino a 250 mW (specifico per Paese)
Campo di trasmissione a bassa frequenza	da 50 fino a 20.000 Hz
Sensibilità d'ingresso	regolazione automatica della sensibilità
Alimentazione	Pacco batterie: BA 10 (ioni di Litio, 3,7 V) Batterie*: 2 Mignon AA (1,5 V)
Durata batteria	Pacco batterie: tipic. 15 h Batterie*: tipic. 10 h
Display	LCD
Interruttore Mute	disponibile
Peso (senza pacco batterie)	ca. 262 g, inclusa capsula

* accessorio opzionale

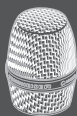
SL tascabile



Potenza di trasmissione	adattivo fino a 250 mW (specifico per Paese)
Campo di trasmissione a bassa frequenza	Mic: da 50 fino a 20.000 Hz Line: da 20 fino a 20.000 Hz
Livello d'ingresso massimo	Mic: 2,2 V RMS Line: 3,3 V RMS
Impedenza d'entrata linea	1 M Ω
Sensibilità d'ingresso	regolazione automatica della sensibilità
Alimentazione	Pacco batterie: BA 30 (ioni di Litio, 3,7 V) Batterie*: 2 Mignon AA (1,5 V)
Durata batteria	Pacco batterie: tipic. 15 h Batterie*: tipic. 11 h
Prese di collegamento BF	Jack 3,5 mm, avvitabile Mic + Line +
Peso (senza pacco batterie)	circa 88 g

* accessorio opzionale

Microfoni



	MME 865-1	MKE 1	Microfono da testa SL 1
Tipo di microfono	microfono a condensatore prepolarizzato		
Sensibilità	1,6 mV/Pa	5 mV/Pa	5 mV/Pa
Caratteristiche direzionali	supercardiode	omnidirezionale	omnidirezionale
Livello max. di pressione acustica	152 dB SPL	142 dB SPL	142 dB SPL

Requisiti conformi a:

Europa		Radio	EN 301406
		EMC	EN 301489-1/-6
		Sicurezza	EN 60950-1
			EN 62311 (SAR)
		ROHS	EN 50581
USA		FCC 47 CFR 15	
Canada		Industry Canada RSS 210 CAN ICES-3 (B)/NMB-3(B)	

Omologato per:

USA	Ricevitore rack SL	FCC ID: DMOEM1G9WE
	SL portatile	FCC ID: DMOSKM1G9WE
	SL tascabile	FCC ID: DMOSK1G9WE
Canada	Ricevitore rack SL	IC: 2099A-EM1G9WE
	SL portatile	IC: 2099A-SKM1G9WE
	SL tascabile	IC: 2099A-SK1G9WE
Australia/Nuova Zelanda		
Giappone	SL Rack Receiver	202-SMC048
	SL Handheld	202-SMC049
	SL Bodypack	202-SMC050

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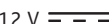
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Alimentatori

	NT 12-4C	NT 2-3
Tensione d'ingresso nominale	da 100 a 240 V~	
Frequenza di rete	50 o 60 Hz	
Corrente di ingresso	max. 120 mA	
Tensione nominale d'uscita	12 V 	
Potenza assorbita in stand-by	≤ 0,3 W	
Classe di efficienza energetica	V	IV
Temperatura di esercizio	da -10 °C a +55 °C	
Temperatura di immagazzinamento	da -20 °C a +70 °C	
Umidità relativa dell'aria	max. 95%	
Peso	circa 100 g	circa 105 g

Requisiti conformi a:

Europa 	EMC	EN 55022 EN 55024
	Sicurezza	EN 60065
	RoHS	EN 50581
	Regolamento sull'efficienza energetica n.	1275/2008
USA/Canada	EMC	FCC 47 CFR 15 B CAN ICES-3 (B)/NMB-3(B)
	Sicurezza	UL 60065 CAN/CSA-C22.2 n. 60065
Cina	EMC	GB13837, GB17625
	Sicurezza	GB8898
	RoHS	
Australia/Nuova Zelanda	EMC	AS/NZS CISPR 22
	Sicurezza	AS/NZS 60065

Certificato conformemente a:


Europa	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
USA/Canada	
Australia/Nuova Zelanda	
Giappone	 <small>センセイザーション(株)</small>
Cina	 (solo NT 2-3)
Corea	 KTL SU 10524-13002 (solo NT 2-3)
Russia	

Pacchi batterie





	BA 10	BA 30
Capacità di carica	2200 mAh	2030 mAh
Tensione di uscita	3,6 V	3,7 V

Requisiti conformi a:

Europa		EMC Sicurezza	EN 301489-1/-6/-17 IEC/EN 62133
USA/Canada		Celle batteria Pacco batterie	UL 1642 UL 2054
Giappone		Legge DENAN articolo 1; Appendice 9 Ioni di litio	
Corea		Sicurezza	K 62133
Test di trasporto UN		Secondo il manuale delle Nazioni Unite, Parte III, Sottosezione 38.3 Batterie al litio	

Certificato conformemente a:


USA/Canada	
Giappone	 <small>ゼンハイザージャパン(株)</small>
Corea	

Dichiarazioni del costruttore

Garanzia

- Per questo prodotto Sennheiser electronic GmbH & Co. KG offre una garanzia di 24 mesi.
- Le condizioni di garanzia attualmente valide possono essere consultate sul sito Internet www.sennheiser.com oppure presso un centro servizi Sennheiser.

In conformità alle seguenti prescrizioni

- Direttiva RAEE (2012/19/UE)
 Smaltire i prodotti al termine della vita utile presso i centri di raccolta del proprio comune oppure in un centro per il riciclaggio.
- Direttiva sulle batterie (2006/66/EG)
Gli accumulatori o batterie utilizzati sono soggetti a riciclaggio obbligatorio. Smaltire accumulatori e batterie nei punti di raccolta specializzati o presso il rivenditore. Ai fini della tutela ambientale, smaltire unicamente batterie o accumulatori vuoti.

Conformità CE

- **CE 0682**
- Direttiva R&TTE (1999/5/CE)
- Direttiva ROHS (2011/65/UE)
- Direttiva CEM (2004/108/UE)
- Direttiva sulla bassa tensione (2006/95/UE)

La dichiarazione è disponibile in Internet sul sito www.sennheiser.com. Prima della messa in funzione, osservare le disposizioni specifiche del Paese di competenza.

SpeechLine Digital Wireless

Especificaciones técnicas

Sistema

Respuesta de frecuencia BF	20 a 20.000 Hz	
Rango dinámico	> 120 dB (A)	
THD (1 kHz)	típ. 0,1 %	
Muestreo de audio	24 bit / 48 kHz	
Separación señal/ruido	> 90 dB (A)	
Encriptación	AES 256	
Rangos de frecuencia de RF	UE:	1.880 a 1.900 MHz
	EE. UU.:	1.920 a 1.930 MHz
	Brasil:	1.910 a 1.920 MHz
	Taiwán:	1.880 a 1.895 MHz
	Japón:	1.893 a 1.906 MHz
Modulación	GFSK con canal de retorno de datos	
Sistema de transmisión	TDMA, Diversidad de espacio	
Latencia	19 ms	
Humedad relativa del aire	máx. 95 %	
Rango de temperatura*	en funcionamiento:	-10 °C a +55 °C
	almacenamiento:	-20 °C a +70 °C

* Las propiedades de la pila recargable influyen en este rango de temperatura

Receptor para montaje en rack SL



Sensibilidad de RF	< -90 dBm	
Potencia de transmisión canal de retorno	Adaptable hasta 250 mW (específica para cada país)	
Ganancia digital	Interruptor de nivel Mic/Line:	-24 dB/0 dB
Ajustable en pasos de 6 dB	XLR, simétrica:	máx. +18 dBu
	RCA, asimétrica:	máx. +6 dBu
Efectos de audio	Low Cut:	-3 dB a 120 Hz
	Ecuador:	Ecuador gráfico a 7 bandas con preajustes de sonido
	Control automático de ganancia AGC: Compresión/expansión con función automática de ganancia de compensación	
Pantalla	OLED	
Protocolo de red	Media Control Protocol, TCP/IP IPv4 (DHCP, manual)/IPv6	
Alimentación de tensión	12 V DC	
Consumo de corriente	350 mA	
Hembrillas de conexión BF	XLR/2 RCA	
Hembrillas de antena	2 Rev SMA	
Hembrilla de red	RJ45	
Conexión eléctrica	Jack hueco	
Peso	Aprox. 828 g	

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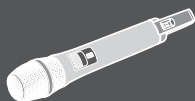
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Transmisor de mano SL




Potencia de transmisión	Adaptable hasta 250 mW (específica para cada país)
Respuesta de frecuencia BF	50 a 20.000 Hz
Sensibilidad de entrada	Ajuste automático de sensibilidad
Alimentación de tensión	Paquete de baterías: BA 10 (Li-Ion, 3,7 V) Pilas recargables*: 2 tipo Mignon AA (1,5 V)
Autonomía de las pilas recargables	Paquete de baterías: típ. 15 h Pilas recargables*: típ. 10 h
Pantalla	LCD
Interruptor silenciador	Incluido
Peso (sin paquete de baterías)	Aprox. 262 g incl. cápsula

* accesorio opcional

Transmisor de petaca SL



Potencia de transmisión	Adaptable hasta 250 mW (específica para cada país)
Respuesta de frecuencia BF	Mic: 50 a 20.000 Hz Line: 20 a 20.000 Hz
Nivel de entrada máx.	Mic: 2,2 V RMS Line: 3,3 V RMS
Impedancia de entrada Line	1 M Ω
Sensibilidad de entrada	Ajuste automático de sensibilidad
Alimentación de tensión	Paquete de baterías: BA 30 (Li-Ion, 3,7 V) Pilas recargables*: 2 tipo Mignon AA (1,5 V)
Autonomía de las pilas recargables	Paquete de baterías: típ. 15 h Pilas recargables*: típ. 11 h
Hembrilla de conexión BF	Enchufe con conector hembra de 3,5 mm, de rosca 
Peso (sin paquete de baterías)	Aprox. 88 g

* accesorio opcional

Micrófonos



	MME 865-1	MKE 1	Micrófono de diadema SL 1
Tipo de micrófono	Micrófono de condensador con polarización permanente		
Sensibilidad	1,6 mV/Pa	5 mV/Pa	5 mV/Pa
Patrón de captación	Supercardioides	Omnidireccional	Omnidireccional
Nivel de presión de sonido máx.	152 dB SPL	142 dB SPL	142 dB SPL

Se cumplen los requisitos para:

Europa		Radiofrecuencia	EN 301406
		CEM	EN 301489-1/-6
		Seguridad	EN 60950-1
			EN 62311 (SAR)
		RoHS	EN 50581
EE. UU.		FCC 47 CFR 15	
Canadá		Industry Canada RSS 210	
		CAN ICES-3(B)/NMB-3(B)	

Homologado para:

EE. UU.	Receptor para montaje en rack SL	FCC ID: DMOEM1G9WE
	Transmisor de mano SL	FCC ID: DMOSKM1G9WE
	Transmisor de petaca SL	FCC ID: DMOSK1G9WE
Canadá	Receptor para montaje en rack SL	IC: 2099A-EM1G9WE
	Transmisor de mano SL	IC: 2099A-SKM1G9WE
	Transmisor de petaca SL	IC: 2099A-SK1G9WE

Australia/Nueva Zelanda



Japón



SL Rack Receiver	R	202-SMC048
SL Handheld	R	202-SMC049
SL Bodypack	R	202-SMC050

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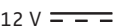
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Fuentes de alimentación

	NT 12-4C	NT 2-3
Tensión de entrada nominal	100 a 240 V~	
Frecuencia de red	50 o 60 Hz	
Corriente de entrada	máx. 120 mA	
Tensión nominal de salida	12 V 	
Consumo de potencia en standby	≤ 0,3 W	
Clase de eficiencia energética	V	IV
Temperatura de funcionamiento	-10 °C a +55 °C	
Temperatura de almacenamiento	-20 °C a +70 °C	
Humedad relativa del aire	máx. 95 %	
Peso	aprox. 100 g	aprox. 105 g

Se cumplen los requisitos para:

Europa		CEM	EN 55022 EN 55024
		Seguridad	EN 60065
		RoHS	EN 50581
		Ordenanza de eficiencia energética nº.	1275/2008
EE. UU./Canadá		CEM	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B)
		Seguridad	UL 60065 CAN/CSA-C22.2 No. 60065
China		CEM	GB13837, GB17625
		Seguridad	GB8898
		RoHS	
Australia/Nueva Zelanda		CEM	AS/NZS CISPR 22
		Seguridad	AS/NZS 60065

Certificado conforme a:

Europa	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)	
EE. UU./Canadá		
Australia/Nueva Zelanda		
Japón	 <small>ゼンハイザーシャヤパン(株)</small>	
China		(solo NT 2-3)
Corea		KTL SU 10524-13002 (solo NT 2-3)
Rusia	 ME95	

Paquetes de baterías



	BA 10	BA 30
Capacidad de carga	2200 mAh	2030 mAh
Tensión de salida	3,6 V	3,7 V

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Se cumplen los requisitos para:

Europa		CEM Seguridad	EN 301489-1/-6/-17 IEC/EN 62133
EE. UU./Canadá		Baterías Paquete de baterías	UL 1642 UL 2054
Japón		Ordenanza DENAN, artículo 1; apéndice 9 Lithium Ion	
Corea		Seguridad	K 62133
Test de transporte UN		Según el manual de pruebas UN parte III, sección 38.3 Baterías de litio	

Certificado conforme a:


EE. UU./Canadá	
Japón	 <small>ゼンハイザージャパン(株)</small>
Corea	

Declaraciones del fabricante

Garantía

- Sennheiser electronic GmbH & Co. KG concede una garantía de 24 meses por este producto.
- Puede consultar las condiciones de garantía actuales en la página de Internet www.sennheiser.com u obtenerlas de su distribuidor Sennheiser.

Conformidad con las siguientes directivas

- Directiva WEEE (2012/19/EU)
 Le rogamos que, al término de su vida útil, deseche los productos a través del centro de recogida y/o reciclaje de su municipio.
- Directiva sobre baterías (2006/66/CE)
Las baterías o pilas recargables suministradas son de reciclaje obligatorio. Deseche las pilas recargables o baterías en un centro oficial de recogida o en su comercio especializado. Deseche sólo baterías o pilas recargables gastadas para proteger el medio ambiente.

Conformidad CE

- **CE 0682**
- Directiva R&TTE (1999/5/CE)
- Directiva RoHS (2011/65/UE)
- Directiva CEM (2004/108/UE)
- Directiva de baja tensión (2006/95/UE)

Las declaraciones se pueden consultar en Internet, en www.sennheiser.com. Antes de la puesta en servicio, se deben observar las disposiciones específicas del país de uso.

SpeechLine Digital Wireless

Dados técnicos

Sistema

Intervalo de transmissão BF	20 a 20.000 Hz
Gama dinâmica	> 120 dB (A)
THD (1 kHz)	tip. 0,1 %
Audio Sampling	24 bit / 48 kHz
Relação sinal/ruído	> 90 dB (A)
Encryption	AES 256
Gamas de frequências de AF	UE: 1880 a 1.900 MHz E.U.A.: 1920 a 1.930 MHz Brasil: 1.910 a 1.920 MHz Taiwan: 1880 a 1.895 MHz Japão: 1.893 a 1.906 MHz
Modulação	GFSK com canal de retorno de dados
Sistema de transmissão	TDMA, Space diversity
Latência	19 ms
humidade relativa do ar	máx. 95 %
Gama de temperaturas*	em funcionamento: -10 °C a +55 °C Armazenamento: -20 °C a +70 °C

* As características da pilha influenciam esta gama de temperaturas

SL Rack Receiver



Sensibilidade de AF	< -90 dBm
Potência emissora do canal de retorno	adaptativa até a 250 mW (específica do país)
Digital Gain	Mic/Line level switch: -24 dB/0 dB
ajustável em intervalos de 6 dB	XLR, simétrico: máx. +18 dBu Cinch, assimétrico: máx. +6 dBu
Efeitos áudio	Low Cut: -3 dB a 120 Hz Equalizer: Equalizador gráfico de 7 bandas com predefinições de som Automatic Gain Control AGC: Compressão/Expansão com função Make-Up-Gain automática
Display	OLED
Protocolo de rede	Media Control Protocol, TCP/IP IPv4 (DHCP, Manual)/IPv6
Alimentação de tensão	12 V CC
Consumo de corrente	350 mA
Entradas de ligação de BF	XLR/2 x Cinch
Tomadas de antena	2 x Rev-SMA
Tomada de rede	RJ45
Ligação de corrente	Conector jack macho com orifício
Peso	aprox. 828 g

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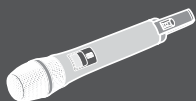
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SL Handheld

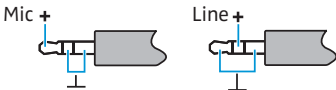


Potência emissora	adaptativa até a 250 mW (específica do país)
Intervalo de transmissão BF	50 a 20.000 Hz
Sensibilidade de entrada	Automatic Sensitivity Adjustment
Alimentação de tensão	Bateria: BA 10 (Li-Ion, 3,7 V) Pilhas*: 2 pilhas AA, de 1,5 V
Tempo de duração da pilha	Bateria: tip. 15 h Pilhas*: tip. 10 h
Display	LCD
Interruptor Mute	disponível
Peso (sem bateria)	aprox. 262 g, incl. a cápsula

* acessório opcional

SL Bodypack



Potência emissora	adaptativa até a 250 mW (específica do país)
Intervalo de transmissão BF	Mic: 50 a 20.000 Hz Linha: 20 a 20.000 Hz
Nível de entrada máx.	Mic: 2,2 V RMS Linha: 3,3 V RMS
Impedância de entrada "Line"	1 M Ω
Sensibilidade de entrada	Automatic Sensitivity Adjustment
Alimentação de tensão	Bateria: BA 30 (Li-Ion, 3,7 V) Pilhas*: 2 pilhas AA, de 1,5 V
Tempo de duração da pilha	Bateria: tip. 15 h Pilhas*: tip. 11 h
Entrada de ligação de BF	conector jack fêmea de 3,5 mm, com rosca 
Peso (sem bateria)	aprox. 88 g


* acessório opcional

Microfones



	MME 865-1	MKE 1	SL Headmic 1
Tipo de microfone	microfone de condensador permanentemente polarizado		
Sensibilidade	1,6 mV/Pa	5 mV/Pa	5 mV/Pa
Característica direcional	Super cardioide	Esfera	Esfera
Nível máx. de pressão sonora	152 dB SPL	142 dB SPL	142 dB SPL

Requisitos preenchidos para:

Europa 	Radiofrequência	EN 301406
	CEM	EN 301489-1/-6
	Segurança	EN 60950-1 EN 62311 (SAR)
	RoHS	EN 50581
EUA	FCC 47 CFR 15	
Canadá	Industry Canada RSS 210 CAN ICES-3(B)/NMB-3(B)	

Autorizado para:

EUA	SL Rack Receiver	FCC ID: DMOEM1G9WE
	SL Handheld	FCC ID: DMOSKM1G9WE
	SL Bodypack	FCC ID: DMOSK1G9WE
Canadá	SL Rack Receiver	IC: 2099A-EM1G9WE
	SL Handheld	IC: 2099A-SKM1G9WE
	SL Bodypack	IC: 2099A-SK1G9WE

Austrália/Nova Zelândia



Japão



SL Rack Receiver	R	202-SMC048
SL Handheld	R	202-SMC049
SL Bodypack	R	202-SMC050

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Alimentadores

	NT 12-4C	NT 2-3
Tensão de entrada nominal	100 a 240 V~	
Frequência de rede	50 ou 60 Hz	
Corrente de entrada	máx. 120 mA	
Tensão de saída nominal	12 V 	
Consumo de potência em standby	≤ 0,3 W	
Classe de eficiência energética	V	IV
Temperatura de funcionamento	-10 °C a +55 °C	
Temperatura de armazenamento	-20 °C a +70 °C	
Humidade relativa do ar	máx. 95 %	
Peso	aprox. 100 g	aprox. 105 g

Requisitos preenchidos para:

Europa		CEM EN 55022 EN 55024 Segurança EN 60065 RoHs EN 50581 Eficiência energética, regulamento n.º 1275/2008
E.U.A / Canadá		CEM FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B) Segurança UL 60065 CAN/CSA-C22.2 No. 60065
China		CEM GB13837, GB17625 Segurança GB8898 RoHs 
Austrália/Nova Zelândia		CEM AS/NZS CISPR 22 Segurança AS/NZS 60065

Certificado em conformidade com:


Europa	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
E.U.A / Canadá	
Austrália/Nova Zelândia	
Japão	 <small>ゼンハイザージャパン(株)</small>
China	 (apenas NT 2-3)
Coreia	 KTL SU 10524-13002 (apenas NT 2-3)
Rússia	

Baterias



	BA 10	BA 30
Capacidade de carga	2200 mAh	2030 mAh
Tensão de saída	3,6 V	3,7 V

Requisitos preenchidos para:

Europa		CEM Segurança	EN 301489-1/-6/-17 IEC/EN 62133
E.U.A / Canadá		Células acumuladoras bateria	UL 1642 UL 2054
Japão		DENAN Ordinance Article 1; Appendix 9 Lithium Ion	
Coreia		Segurança	K 62133
Teste de transporte das Nações Unidas		de acordo com o manual de verificações das Nações Unidas, parte III, parágrafo 38.3 pilhas de lítio	

Certificado em conformidade com:

E.U.A / Canadá



Japão



ゼンハイザージャパン(株)

Coreia




Declarações do fabricante

Garantia

- A Sennheiser electronic GmbH & Co. KG assume uma garantia de 24 meses para este produto.
- As condições de garantia atuais encontram-se disponíveis no nosso site de Internet www.sennheiser.com ou junto do seu distribuidor Sennheiser.

Em conformidade com as seguintes diretivas

- Diretiva REEE (2012/19/UE)
 Elimine estes produtos no seu ponto de recolha local ou num ecoponto aquando do fim da sua vida útil.
- Diretiva relativa às pilhas (2006/66/CE)
As baterias ou pilhas fornecidas são de reciclagem obrigatória. Para eliminar as pilhas acumuladoras ou convencionais, coloque-as num no ponto de recolha local oficial ou entregue-as em lojas da especialidade. Elimine apenas as pilhas convencionais ou acumuladoras gastas e garanta a proteção do meio ambiente.

Conformidade CE

- **CE 0682**
- Diretiva R&TTE (1999/5/CE)
- Diretiva RoHS (2011/65/UE)
- Diretiva CEM (2004/108/UE)
- Diretiva Baixa Tensão (2006/95/UE)

As declarações encontram-se disponíveis na Internet em www.sennheiser.com. Antes da colocação em funcionamento, observe as prescrições específicas do país.

SpeechLine Digital Wireless

Technische specificaties

Systeem

NF-frequentiebereik	20 tot 20.000 Hz	
Dynamische bereik	> 120 dB(A)	
THD (1 kHz)	typ. 0,1%	
Audio sampling	24 bit/48 kHz	
Signaal-ruisverhouding	> 90 dB (A)	
Encryption	AES 256	
NF-frequentiebereik	EU:	1.880 tot 1.900 MHz
	USA:	1.920 tot 1.930 MHz
	Brazilië:	1.910 tot 1.920 MHz
	Taiwan:	1.880 tot 1.895 MHz
	Japan:	1.893 tot 1.906 MHz
Modulatie	GFSK met dataretourkanaal	
Overdrachtssysteem	TDMA, Space diversity	
Latentie	19 ms	
relatieve luchtvochtigheid	max. 95%	
Temperatuurbereik*	in bedrijf:	-10°C tot +55°C
	Opslag:	- 20°C tot +70°C

* De eigenschappen van de batterij beïnvloeden dit temperatuurbereik

SL Rack Receiver



HF-gevoeligheid	≥ -90 dBm	
Zendvermogen retourkanaal	adaptief tot max. 250 mW (landspecifiek)	
Digital Gain	Mic/Line level switch:	-24 dB/0 dB
instelbaar in stappen van 6 dB	XLR, symmetrisch:	max. +18 dBu
	Cinch, niet-symmetrisch:	max. +6 dBu
Audio-effecten	Low Cut:	-3 dB bij 120 Hz
	Equalizer:	7-bands grafische equalizer met sound-presets
	Automatic Gain Control AGC:	Compressie/expansie met automatische make-up-gain-functie
Display	OLED	
Netwerkprotocol	Media Control Protocol, TCP/IP IPv4 (DHCP, Manual)/IPv6	
Voedingsspanning	12 V DC	
Stroomverbruik	350 mA	
Laagspanningsbussen	XLR/2x cinch	
Antennebussen	2 x Rev-SMA	
Netwerkbuss	RJ45	
Stroomaansluiting	Holle jackplug	
Gewicht	ca. 828 g	

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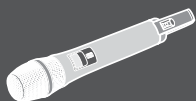
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SL Handheld



Zendvermogen	adaptief tot max. 250 mW (landspecifiek)
NF-frequentiebereik	50 tot 20.000 Hz
Ingangsgoedigheid	Automatic Sensitivity Adjustment
Voedingsspanning	Accupack: BA 10 (Li-Ion, 3,7 V) Batterijen*: 2 x penlite AA (1,5 V)
Levensduur van de batterij	Accupack: typ. 15 uur Batterijen*: typ. 10 uur
Display	LCD
Mute-schakelaar	aanwezig
Gewicht (zonder accupack)	ca. 262 g incl. kapsel

* als optie verkrijgbare toebehoren

SL Bodypack



Zendvermogen	adaptief tot max. 250 mW (landspecifiek)
NF-frequentiebereik	Mic: 50 tot 20.000 Hz Line: 20 tot 20.000 Hz
Max. ingangssignaal	Mic: 2,2 V rms Line: 3,3 V rms
Ingangsimpedantie line	1 M Ω
Ingangsgoedigheid	Automatic Sensitivity Adjustment
Voedingsspanning	Accupack: BA 30 (Li-Ion, 3,7 V) Batterijen*: 2 x penlite AA (1,5 V)
Levensduur van de batterij	Accupack: typ. 15 uur Batterijen*: typ. 11 uur
Laagspanningsbus	3,5 mm jackplug, schroefbaar
Gewicht (zonder accupack)	ca. 88 g


* als optie verkrijgbare toebehoren

Microfoons








	MME 865-1	MKE 1	SL Headmic 1
Microfoontype	permanent gepolariseerde condensatormicrofoon		
Gevoeligheid	1,6 mV/Pa	5 mV/Pa	5 mV/Pa
Richtkarakteristiek	Supernier	Kogel	Kogel
Max. geluidsdruk	152 dB/SPL	142 dB/SPL	142 dB/SPL

Aan de eisen is voldaan voor:

Europa		Radio	EN 301406
		EMC	EN 301489-1/-6
		Veiligheid	EN 60950-1 EN 62311 (SAR)
		RoHS	EN 50581
USA		FCC 47 CFR 15	
Canada		Industry Canada RSS 210 CAN ICES-3(B)/NMB-3(B)	

Goedgekeurd voor:

USA	SL Rack Receiver	FCC-ID: DMOEM1G9WE
	SL Handheld	FCC-ID: DMOSKM1G9WE
	SL Bodypack	FCC-ID: DMOSK1G9WE
Canada	SL Rack Receiver	IC: 2099A-EM1G9WE
	SL Handheld	IC: 2099A-SKM1G9WE
	SL Bodypack	IC: 2099A-SK1G9WE
Australië/Nieuw-Zeeland		
Japan		SL Rack Receiver  202-SMC048
		SL Handheld  202-SMC049
		SL Bodypack  202-SMC050

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Voedingsadapters

	NT 12-4C	NT 2-3
Nominale ingangsspanning	100 tot 240 V~	
Netfrequentie	50 of 60 Hz	
Ingangsstroomsterkte	max. 120 mA	
Nominale uitgangsspanning	12 V 	
Stand-by stroomverbruik	≤ 0,3 W	
Energie-efficiëncyklasse	V	IV
Bedrijfstemperatuur	-10°C tot +55°C	
Opslagtemperatuur	-20°C tot +70°C	
Relatieve luchtvochtigheid	max. 95%	
Gewicht	ca. 100 g	ca. 105 g

Aan de eisen is voldaan voor:

Europa		EMC	EN 55022 EN 55024
		Veiligheid	EN 60065
		RoHS	EN 50581
		Energie-efficiëncybepaling nr. 1275/2008	
USA/Canada		EMC	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B)
		Veiligheid	UL 60065 CAN/CSA-C22.2 No. 60065
China		EMC	GB13837, GB17625
		Veiligheid	GB8898
		RoHS	
Australië/Nieuw-Zeeland		EMC	AS/NZS CISPR 22
		Veiligheid	AS/NZS 60065

Gecertificeerd overeenkomstig:

Europa	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
USA/Canada	 C [®] US
Australië/Nieuw-Zeeland	
Japan	 センライサーージャパン(株)
China	 (alleen NT 2-3)
Korea	 KTL SU 10524-13002 (alleen NT 2-3)
Rusland	 ME95

Accupacks



	BA 10	BA 30
Laadcapaciteit	2.200 mAh	2.030 mAh
Uitgangsspanning	3,6 V	3,7 V

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Aan de eisen is voldaan voor:

Europa		EMC Veiligheid	EN 301489-1/-6/-17 IEC/EN 62133
USA/Canada		Accucellen Accupack	UL 1642 UL 2054
Japan		DENAN Ordinance Article 1; Appendix 9 Lithium Ion	
Korea		Veiligheid	K 62133
UN Transporttest		overeenkomstig UN-keuringshandboek deel III, paragraaf 38.3 lithiumbatterijen	

Gecertificeerd overeenkomstig:


USA/Canada	
Japan	 <small>ゼンハイザージャパン(株)</small>
Korea	

Verklaringen van de fabrikant

Garantie

- Sennheiser electronic GmbH & Co. KG verleent op dit product een garantie van 24 maanden.
- De op dit moment geldende garantiebepalingen kunt u downloaden van het internet onder www.sennheiser.com of bij uw Sennheiser-leverancier opvragen.

In overeenstemming met onderstaande eisen

- WEEE-richtlijn (2012/19/EU)
 Breng deze producten aan het einde van de levenscyclus a.u.b. naar één van de plaatselijke inzamelpunten of naar een recyclingbedrijf.
- Batterijrichtlijn (2006/66/EG)
De gebruikte accu's of batterijen moeten worden gerecycled. Lever oude accu's c.a. batterijen a.u.b. in bij de officiële inzamelplaatsen of de vakhandel. Zorg ervoor, om het milieu te beschermen, dat lege batterijen of accu's op de juiste wijze als afval worden behandeld.

CE-overeenstemming

- **CE 0682**
- R&TTE-richtlijn (1999/5/EG)
- RoHS-richtlijn (2011/65/EU)
- EMC-richtlijn (2204/108/EG)
- Laagspanningsrichtlijn (2006/95/EU)

De verklaringen zijn op internet onder www.sennheiser.com beschikbaar. Lees voor de inbedrijfstelling de specifieke voorschriften door, die voor uw land van toepassing zijn.

SpeechLine Digital Wireless

Технические характеристики

Система

Диапазон НЧ-частот	от 20 до 20 000 Гц	
Динамический диапазон	> 120 дБ (А)	
THD (1 кГц)	тип. 0,1%	
Дискретизация аудиосигнала	24 бит/48 кГц	
Отношение сигнал/шум	> 90 дБ (А)	
Шифрование	AES 256	
РЧ-диапазоны	ЕС:	от 1880 до 1900 МГц
	США:	от 1920 до 1930 МГц
	Бразилия:	от 1910 до 1920 МГц
	Тайвань:	от 1880 до 1895 МГц
	Япония:	от 1893 до 1906 МГц
Модуляция	частотная модуляция с гауссовой фильтрацией и обратным каналом данных	
Система передачи	TDMA, пространственное разнесение	
Задержка	19 мс	
относительная влажность воздуха	макс. 95%	
Диапазон температур:	Работа:	от -10 до +55 °С
	Хранение:	от -20 до +70 °С

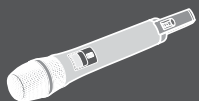
* На указанный диапазон температур влияют характеристики батареек

SL Rack Receiver



РЧ-чувствительность	< -90 дБм	
Мощность передачи обратного канала	адаптивная до 250 мВт (в зависимости от страны)	
Цифровое усиление	Переключатель уровня микрофон/линия: -24 дБ/0 дБ	
настройка с шагом 6 дБ	XLR, симметричный:	макс. +18 дБи
	RCA, асимметричный:	макс. +6 дБи
Аудиоэффекты	Фильтр низких частот (Low Cut): -3 дБ при 120 Гц	
	Эквалайзер: 7-полосный графический эквалайзер со звуковыми пресетами	
	Автоматическая регулировка чувствительности AGC: сжатие/расширение с помощью автоматической функции Make Up Gain	
Дисплей	OLED	
Сетевой протокол	протокол управления мультимедиа, TCP/IP IPv4 (DHCP, ручной)/IPv6	
Электропитание	12 В=	
Потребляемый ток	350 мА	
Соединительные гнезда НЧ	XLR/2 x RCA	
Антенные гнезда	2 x Rev-SMA	
Интерфейсный разъем	RJ45	
Сетевое подключение	полый штекер	
Вес	ок. 828 г	

SL Handheld

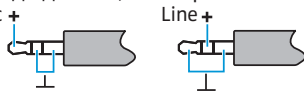


Мощность передачи	адаптивная до 250 мВт (в зависимости от страны)
Диапазон НЧ-частот	от 50 до 20 000 Гц
Чувствительность входа	автоматическая настройка чувствительности
Электропитание	Аккумуляторный блок: ВА 10 (литий-ионные, 3,7 В) Батарейки*: 2 x типа Mignon AA (1,5 В)
Время работы батареек	Аккумуляторный блок: тип. 15 ч Батарейки*: тип. 10 ч
Дисплей	LCD
Выключатель звука	имеется
Вес (без аккумуляторного блока)	ок. 262 г с капсулем

* дополнительные аксессуары

SL Bodypack



Мощность передачи	адаптивная до 250 мВт (в зависимости от страны)
Диапазон НЧ-частот	Микрофон: от 50 до 20 000 Гц Линейный: от 20 до 20 000 Гц
Макс. входной уровень	Микрофон: 2,2 В RMS Линейный: 3,3 В RMS
Полное входное сопротивление, линейный	1 МВт
Чувствительность входа	автоматическая настройка чувствительности
Электропитание	Аккумуляторный блок: ВА 30 (литий-ионные, 3,7 В) Батарейки*: 2 x типа Mignon AA (1,5 В)
Время работы батареек	Аккумуляторный блок: тип. 15 ч Батарейки*: тип. 11 ч
Соединительное гнездо НЧ	гнездо диам. 3,5 мм с резьбой Mic + Line + 
Вес (без аккумуляторного блока)	ок. 88 г

* дополнительные аксессуары

Микрофоны



	MME 865-1	MKE 1	SL Headmic 1
Тип микрофона	Поляризованный конденсаторный микрофон		
Чувствительность	1,6 мВ/Па	5 мВ/Па	5 мВ/Па
Характеристика направленности	суперкардиоидная	круговая	круговая
Макс. уровень звукового давления	152 дБ SPL	142 дБ SPL	142 дБ SPL

Выполняются требования:

Европа		Радио ЭМС Безопасность RoHS	EN 301406 EN 301489-1/-6 EN 60950-1 EN 62311 (SAR) EN 50581
США		FCC 47 CFR 15	
Канада		Industry Canada RSS 210 CAN ICES-3(B)/NMB-3(B)	

Имеет допуски по стандартам:

США	SL Rack Receiver SL Handheld SL Bodypack	FCC ID: DMOEM1G9WE FCC ID: DMOSKM1G9WE FCC ID: DMOSK1G9WE
Канада	SL Rack Receiver SL Handheld SL Bodypack	IC: 2099A-EM1G9WE IC: 2099A-SKM1G9WE IC: 2099A-SK1G9WE
Австралия/Новая Зеландия		
Япония	SL Rack Receiver SL Handheld SL Bodypack	R 202-SMC048 R 202-SMC049 R 202-SMC050

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Блоки питания

	NT 12-4C	NT 2-3
Номинальное входное напряжение	100—240 В ~	
Частота сети	50 или 60 Гц	
Входной ток	макс. 120 мА	
Номинальное выходное напряжение	12 В $\overline{\text{---}}$	
Потребляемая мощность в режиме ожидания	$\leq 0,3$ Вт	
Класс энергоэффективности	V	IV
Диапазон рабочих температур	от -10 до +55 °С	
Температура хранения	от -20 до +70 °С	
Относительная влажность воздуха	макс. 95%	
Вес	ок. 100 г	ок. 105 г

Выполняются требования:

Европа		ЭМС	EN 55022 EN 55024
		Безопасность	EN 60065
		RoHs	EN 50581
		Положение об энергоэффективности № 1275/2008	
США/Канада	ЭМС	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B)	
	Безопасность	UL 60065 CAN/CSA-C22.2 No. 60065	
Китай	ЭМС	GB13837, GB17625	
	Безопасность	GB8898	
	RoHs		
Австралия/Новая Зеландия	ЭМС	AS/NZS CISPR 22	
	Безопасность	AS/NZS 60065	

Имеются следующие сертификаты:

Европа	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
США/Канада	 C US
Австралия/Новая Зеландия	
Япония	 セモノイザーシャパン(株)
Китай	 (только NT 2-3)
Корея	 KTL SU 10524-13002 (только NT 2-3)
Россия	 ME95

Аккумуляторные блоки



	BA 10	BA 30
Зарядная емкость	2200 мАч	2030 мАч
Выходное напряжение	3,6 В	3,7 В

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Выполняются требования:

Европа		ЭМС Безопасность	EN 301489-1/-6/-17 IEC/EN 62133
США/Канада		Аккумуляторные элементы Аккумуляторный блок	UL 1642 UL 2054
Япония		DENAN Ordinance Article 1; Appendix 9 Lithium Ion	
Корея		Безопасность	K 62133
Условия перевозки ООН		в соответствии с инструкцией по контролю согласно требованиям ООН, часть III, раздел 38.3 «Литиевые батареи»	

Имеются следующие сертификаты:


США/Канада	
Япония	 <small>センハイザージャパン(株)</small>
Корея	

Заявления изготовителя

Гарантия

- Компания Sennheiser electronic GmbH & Co. KG предоставляет гарантию на данный продукт сроком 24 месяца.
- Действующие условия предоставления гарантии можно узнать на сайте www.sennheiser.com или у дистрибьютора компании Sennheiser.

В соответствии со следующими требованиями

- Директива WEEE (2012/19/EC)
 Пожалуйста, после окончания срока службы утилизируйте изделия: сдайте их в местный пункт приема вторсырья или в центр утилизации.
- Директива по элементам питания (2006/66/EC)
Прилагаемые аккумуляторы и батарейки подлежат обязательной утилизации. Утилизируйте аккумуляторы и батарейки через специальные приемные пункты или через специализированные торговые организации. В целях обеспечения защиты окружающей среды утилизируйте только разряженные аккумуляторы или батарейки.

Соответствие стандартам CE

- **CE 0682**
- Директива R&TTE (1999/5/EG)
- Директива RoHS (2011/65/EU)
- Директива по ЭМС (2004/108/EU)
- Директива по низковольтному оборудованию (2006/95/EU)

Полный текст заявлений приведен на сайте www.sennheiser.com. Перед вводом в эксплуатацию изучите применимые предписания законодательства своей страны и соблюдайте их.

SpeechLine无线数字话筒

技术参数

系统

低频传输范围	20至20,000 Hz
动态范围	>120dB (A)
THD (1 kHz)	型, 0.1%
音频取样	24 bit / 48 kHz
信号/噪声间距	> 90 dB (A)
加密	AES 256
HF频率范围	欧盟: 1,880至1,900 MHz 美国: 1,920至1,930 MHz 巴西: 1,910至1,920 MHz 台湾: 1,880至1,895 MHz 日本: 1,893至1,906 MHz
调制	数据反馈信道的GFSK
传输系统	TDMA, 空间分集
时延	19 ms
相对空气湿度最高	95%
温度范围*	运行中: -10 °C 至 +55 °C 存放: -20 °C 至 +70 °C

* 电池特性影响温度范围。

SL支架接收器



HF灵敏度	< -90 dBm
反馈信道的发射功率	可达到250 mW (根据不同国家情况而定)
数字增益	Mic/Line电平转换器: -24 dB/0 dB
每步可调整6dB	XLR, 对称: 最大+18 dBu RCA, 不对称: 最大+6 dBu
音频效应	Low Cut: 120 Hz时, -3 dB 均衡器: 带声音预置的七段图示均衡器 自动增益控制AGC: 使用自动增益补偿功能来压缩/伸张
显示屏	OLED
网络协议	多媒体控制协议 TCP/IP IPv4 (DHCP, 说明书)/IPv6
电源供应	12 V DC
电流消耗	350 mA
低频连接插孔	XLR/2 x RCA
天线接口	2 x Rev-SMA
网络接口	RJ45
电源线	同轴插头
重量	约 828 g

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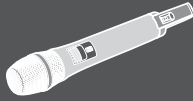
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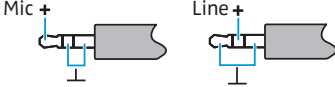
SL手持式



发射功率	可达到250 mW (根据不同国家情况而定)
低频传输范围	50至20,000 Hz
输入信号灵敏度	灵敏度自动调节
电源供应	充电电池组: BA 10 (Li-Ion, 3.7 V) 电池*: 2节AA型(1.5 V)
电池寿命	充电电池组: 典型值15小时 电池*: 典型值10小时
显示屏	LCD
静音开关	存在
重量(不带充电电池组)	大约262 g, 包括话筒头
* 备选附件	

SL 腰挂式



发射功率	可达到250 mW (根据不同国家情况而定)
低频传输范围	Mic: 50至20,000 Hz 线路: 20至20,000 Hz
最大输入电平	Mic: 2.2 V RMS 线路: 3.3 V RMS
线路的输入阻抗	1 MW
输入信号灵敏度	灵敏度自动调节
电源供应	充电电池组: BA 30 (Li-Ion, 3.7 V) 电池*: 2节AA型(1.5 V)
电池寿命	充电电池组: 典型值15小时 电池*: 典型值11小时
低频连接插孔	3.5 mm 插孔, 带螺纹  Mic + Line +
重量(不带充电电池组)	约 88 g
* 备选附件	

麦克风



	MME 865-1	MKE 1	SL 头戴式 1
麦克风类型		驻极体电容式麦克风	
灵敏度	1.6 mV/Pa	5 mV/Pa	5 mV/Pa
拾音特征	超心形	全方向	全方向
最大声压级	152 dB SPL	142 dB SPL	142 dB SPL

符合法规如下：

欧洲		无线电 电磁兼容性 安全	EN 301406 EN 301489-1/-6 EN 60950-1 EN 62311 (SAR) EN 50581
美国		FCC 47 CFR 15	
加拿大		加拿大工业标准RSS 210 CAN ICES-3(B)/NMB-3(B)	

获得许可：

美国	SL 支架接收器 SL 手持式 SL 腰挂式	FCC ID:DMOEM1G9WE FCC ID:DMOSKM1G9WE FCC ID:DMOSK1G9WE
加拿大	SL 支架接收器 SL 手持式 SL 腰挂式	IC:2099A-EM1G9WE IC:2099A-SKM1G9WE IC:2099A-SK1G9WE
澳大利亚/新西兰		
日本		SL Rack Receiver 202-SMC048 SL Handheld 202-SMC049 SL Bodypack 202-SMC050

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
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电源适配器

	NT 12-4C	NT 2-3
额定输入电压	100至240 V-	
电源频率	50或60 Hz	
输入电流	最大 120 mA	
标称输出电压	12 V 	
待机功耗	0.3 W	
节能等级	V	IV
工作温度范围	-10 °C 至 +55 °C	
存放温度	-20 °C至+70 °C	
相对空气湿度	最高95%	
重量	约 100 g	约 105 g

符合法规如下：

欧洲		电磁兼容性	EN 55022 EN 55024
		安全	EN 60065
		RoHS	EN 50581
		节能法规号	1275/2008
美国/加拿大	电磁兼容性	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B)	
	安全	UL 60065 CAN/CSA-C22.2 No.60065	
	中国	GB13837, GB17625 GB8898	
澳大利亚/新西兰		电磁兼容性	AS/NZ CISPR 22
		安全	AS/NZS 60065

通过认证：


欧洲	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
美国/加拿大	
澳大利亚/新西兰	
日本	 センハイザージャパン(株)
中国	 (只用NT 2-3)
韩国	 KTL SU 10524-13002 (只用NT 2-3)
俄罗斯	 ME95

充电电池组






	BA 10	BA 30
充电容量	2200 mAh	2030 mAh
输出电压	3.6 V	3.7 V

符合法规如下：

欧洲		电磁兼容性 安全	EN 301489-1/-6/-17 IEC/EN 62133
美国/加拿大		电池 充电电池组	UL 1642 UL 2054
日本		DENAN Ordinance Article 1; Appendix 9 Lithium Ion	
韩国		安全	K 62133
联合国(UN)携带测试		根据联合国(UN)运输试验手册第三部分，第38.3章节锂电池	

通过认证：


美国/加拿大	
日本	 センハイザージャパン(株)
韩国	

制造商声明

质保

- Sennheiser electronic GmbH & Co. KG 公司为本产品承担 24 个月的保修。
- 您可以从公司网站 www.sennheiser.com 或 Sennheiser 专业经销商处了解当前有效的质保条件。

本产品满足以下标准要求

- WEEE标准(2012/19/EC)
 本产品报废后，请将它送交公共收集站或废旧回收中心。
- 电池标准（2006/66/EC）出厂提供的充电电池或普通电池均应循环再利用。请将废旧充电电池或普通电池送交公共回收点或专业经销商进行妥善处理。请在电池或充电电池用尽后再进行报废处理，以保护环境。

CE 符合性声明

- **CE 0682**
- 无线电及通讯终端指令（1999/5/EC）
- RoHS 标准（2011/65/EU）
- EMC 标准（2004/108/EU）
- 低压标准（2006/95/EU）

您可以在本公司网站 www.sennheiser.com 上下载此声明。开机调试前，请注意所在国家/地区的有关规定。

China RoHS

部件名称 (Parts)	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr ⁶⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
金属部件 (Metal Parts)	x	0	0	0	0	0
电路模块 (Circuit Modules)	x	0	0	0	0	0
电缆及电缆组件 (Cables & Cable Assemblies)	x	0	0	0	0	0
电路开关 (Circuit Breakers - if available)	x	0	0	0	0	0
外部电力适配器 (Ext. Power Supply - if available)	x	0	0	0	0	0
电池 (Battery - if available)	x	0	0	0	0	0

- 0：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。
x：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。

SpeechLine デジタル ワイヤレス 技術データ

システム

AF 周波数応答	20 ~ 20,000 Hz
ダイナミックレンジ	> 120 dB (A)
THD (1 kHz)	通常 0.1%
オーディオ サンプリング	24 ビット / 48 kHz
信号対雑音比	> 90 dB (A)
暗号化	AES 256
HF周波数帯	EU: 1,880 ~ 1,900 MHz 米国: 1,920 ~ 1,930 MHz ブラジル: 1,910 ~ 1,920 MHz 台湾: 1,880 ~ 1,895 MHz 日本: 1,893 ~ 1,906 MHz
変調	データ逆方向通信路付きGFSK
伝送システム	TDMA, 空間ダイバーシティ
待ち時間	19 ms
相対湿度最大	95%
温度範囲*	作動中: 10 °C ~ +55 °C 保管湿度: 20 °C ~ +70 °C

* この温度範囲はバッテリー特性に左右されます。

SL ラック受信機



HF 感度	< 90 dBm
逆方向通信路の送信出力	250 mW まで適応 (国によって異なります)
デジタルゲイン	Mic/Line レベルスイッチ: 24 dB/0 dB
6 つの dB 段階で調整可能	XLR, 対称: 最大 +18 dBu RCA, 非対称: 最大 +6 dBu
オーディオ効果	ローカット: 3 dB (120 Hz) イコライザー: 7 バンドグラフィック イコライザー (サウンドプリセット付き) オートマッチック ゲイン コントロールAGC: 自動メイクアップ ゲイン機能による圧縮 / 膨張
ディスプレイ	OLED
ネットワークプロトコル	メディア コントロール プロトコル, TCP/IP IPv4 (DHCP, 手動)/IPv6
電源	12 V DC
消費電力	350 mA
NF 接続ソケット	XLR/2 x RCA
アンテナソケット	2 x Rev-SMA
ネットワークソケット	RJ45
電源接続	中空プラグ
重量	約 828 g

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SL ハンドヘルド

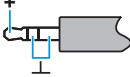
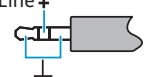


送信出力	250 mW まで適応 (国によって異なります)
AF 周波数応答	50 ~ 20,000 Hz
入力感度	自動感度調整
電源	バッテリーパック: BA 10 (リチウム イオン、3.7 V) バッテリー*: 2 x Mignon AA (1.5 V)
バッテリー作動時間	バッテリーパック: 通常 15 時間 バッテリー*: 通常 10 時間
ディスプレイ	LCD
ミュート スイッチ	あり
質量 (バッテリーパックを除く)	約 262 g (カプセルを含む)

* オプションのアクセサリ

SL ボディパック



送信出力	250 mW まで適応 (国によって異なります)
AF 周波数応答	マイク: 50 ~ 20,000 Hz ライン: 20 ~ 20,000 Hz
最大入力レベル	マイク: 2.2 V RMS ライン: 3.3 V RMS
入力インピーダンス ライン	1 MW
入力感度	自動感度調整
電源	バッテリーパック: BA 30 (リチウム イオン、3.7 V) バッテリー*: 2 x Mignon AA (1.5 V)
バッテリー作動時間	バッテリーパック: 通常 15 時間 バッテリー*: 通常 11 時間
NF 接続ソケット	3.5 mm ジャックソケット、vネジ止め可能 Mic +  Line + 
質量 (バッテリーパックを除く)	約 88 g

* オプションのアクセサリ

マイク



	MME 865-1	MKE 1	SL Headmic 1
マイクの型	常時極性化されているコンデンサーマイク		
感度	1.6 mV/Pa	5 mV/Pa	5 mV/Pa
指向性	スーパーカーディオイド	ボール	ボール
最大音圧レベル	152 dB SPL	142 dB SPL	142 dB SPL

次の規制に準拠します:

欧州		無線 EMC 安全性	EN 301406 EN 301489-1/-6 EN 60950-1 EN 62311 (SAR) EN 50581
米国		RoHS	FCC 47 CFR 15
カナダ			Industry Canada RSS 210 CAN ICES-3(B)/NMB-3(B)

認可:

米国	SL ラック受信機 SL ハンドヘルド SL ボディパック	FCC ID:DMOEM1G9WE FCC ID:DMOSKM1G9WE FCC ID:DMOSK1G9WE
カナダ	SL ラック受信機 SL ハンドヘルド SL ボディパック	IC:2099A-EM1G9WE IC:2099A-SKM1G9WE IC:2099A-SK1G9WE

オーストラリア/ニュージーランド



日本



SL Rack Receiver	R	202-SMC048
SL Handheld	R	202-SMC049
SL Bodypack	R	202-SMC050

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電源

	NT 12-4C	NT 2-3
定格入力電圧	100 ~ 240 V~	
電源周波数	50 または 60 Hz	
入力電流	最大120 mA	
定格出力電圧	12 V = = =	
消費電力(スタンバイモード)	≤ 0.3 W	
エネルギー効率等級	V	IV
作動温度	-10 ℃ ~ +55 ℃	
保管温度	-20 ℃ ~ +70 ℃	
相対湿度	最大 95%	
重量	約 100 g	約 105 g

次の規制に準拠します:

欧州		EMC 安全性 RoHS エネルギー効率規定 番号	EN 55022 EN 55024 EN 60065 EN 50581 1275/2008
米国 / カナダ		EMC 安全性	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B) UL 60065 CAN/CSA-C22.2 No.60065
中国		EMC 安全性 RoHS	GB13837, GB17625 GB8898 
オーストラリア/ニュージーランド		EMC 安全性	AS/NZS CISPR 22 AS/NZS 60065

認証:

欧州	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
米国 / カナダ	
オーストラリア/ニュージーランド	
日本	 <small>センハイザージャパン(株)</small>
中国	 (NT 2-3 のみ)
韓国	 KTL SU 10524-13002 (NT 2-3 のみ)
ロシア	

バッテリーパック



	BA 10	BA 30
充電容量	2200 mAh	2030 mAh
定格出力	3.6 V	3.7 V

次の規制に準拠します:

欧州		EMC 安全性	EN 301489-1/-6/-17 IEC/EN 62133
米国 / カナダ		バッテリーセル バッテリーパック	UL 1642 UL 2054
日本		電気用品安全法第 1 条: 別表第 9 リチウム イオン	
韓国		安全性	K 62133
UN 輸送試験		UN テストハンドブック第III部、38.3項 リチウムバッテリーに準拠	

認証:

米国 / カナダ



日本



ゼンハイザージャパン(株)


韓国



保証

- ・ Sennheiser electronic GmbH & Co. KG は本製品を 2 年間保証いたします。
- ・ 実際の保証条件については、弊社ウェブサイト www.sennheiser.com をご覧になるか、または、最寄りの Sennheiser 取扱店までお問い合わせください。

次の要件に準拠しています

- ・ WEEE 指令(2012/19/EU)
 使用済みの製品は、お住まいの地域の収集場所またはリサイクルセンターで廃棄処理してください。
- ・ バッテリー指令(2006/66/EG)
同梱の蓄電池またはバッテリーはリサイクルが義務付けられています。蓄電池または電池は電池回収ボックスに廃棄するか、または、専門業者までお持ちください。環境を保護するために、空の電池または蓄電池だけを廃棄してください。

CE 適合宣言

- ・ **CE 0682**
- ・ R&TTE 指令(無線および電気通信端末機器指令) 1999/5/EC)
- ・ RoHS 指令(特定有害物質使用制限指令) 2011/65/EU)
- ・ EMC 指令(電磁両立性指令) 2004/108/EU)
- ・ 低電圧指令(2006/95/EU)

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Japanese Radio Law and Japanese Telecommunications Business Law Compliance.

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SpeechLine Digital Wireless 기술 데이터

시스템

NF 전송 범위	20 ~ 20,000 Hz
동적 범위	> 120 dB (A)
THD (1 kHz)	일반적으로 0,1%
오디오 샘플링	24 bit/48 kHz
신호/잡음비	> 90 dB (A)
Encryption	AES 256
HF 주파수 범위	EU: 1,880 ~ 1,900 MHz 미국: 1,920 ~ 1,930 MHz 브라질: 1,910 ~ 1,920 MHz 대만: 1,880 ~ 1,895 MHz 일본: 1,893 ~ 1,906 MHz
변조	데이터 백 채널이 포함된 GFSK
전송 시스템	TDMA, Space diversity
대기 시간	19 ms
상대 습도 최대	95%
온도 범위*	작동중: -10°C ~ +55°C 보관중: -20°C ~ +70°C

* 배터리 특성이 이 온도 범위에 영향을 미칩니다.

SL Rack Receiver



HF 감도	< -90 dBm
백 채널 송신 출력	최대 250 mW까지 어댑티브 (국가고유)
Digital Gain	Mic/Line level switch: -24 dB/0 dB
6 dB 단위로 설정 가능	XLR, 대칭: 최대 +18 dBu Cinch, 비대칭: 최대 +6 dBu
오디오 효과	Low Cut: 120 Hz에서 -3 dB Equalizer: 사운드 프리셋이 있는 7밴드 그래픽 이퀄라이저 Automatic Gain Control AGC: 자동 Make Up Gain 기능으로 압축/확장
디스플레이	OLED
네트워크 프로토콜	Media Control Protocol, TCP/IP IPv4 (DHCP, 수동)/IPv6
공급 전압	12 V DC
소비 전류	350 mA
NF 연결 소켓	XLR/2 x Cinch
안테나 소켓	2 x Rev-SMA
네트워크 잭	RJ45
전기 연결 장치	어댑터잭
중량	약 828 g

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SL 핸드헬드

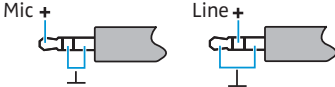


전송 출력	최대 250 mW까지 어댑티브 (국가고유)
NF 전송 범위	50 ~ 20,000 Hz
입력 감도	Automatic Sensitivity Adjustment
공급 전압	배터리팩: BA 10 (리튬 이온, 3.7 V) 배터리*: 2 x Mignon AA(1.5 V)
배터리 작동 시간	배터리팩: 일반적으로 15시간 배터리*: 일반적으로 10시간
디스플레이	LCD
무음 스위치	있음
무게(배터리 제외한 무게)	캡슐 포함 약 262 g

* 옵션 액세서리

SL 바디팩



전송 출력	최대 250mW까지 어댑티브(국가고유)
NF 전송 범위	Mic: 50 ~ 20,000 Hz 라인 : 20 ~ 20,000 Hz
최대 입력 레벨	Mic: 2.2 V RMS 라인 : 3.3 V RMS
라인 입력 임피던스	1 MW
입력 감도	Automatic Sensitivity Adjustment
공급 전압	배터리팩: BA 30 (리튬 이온, 3.7 V) 배터리*: 2 x Mignon AA (1.5 V)
배터리 작동 시간	배터리팩: 일반적으로 15시간 배터리*: 일반적으로 11시간
NF 연결 소켓	3.5 mm 잭 소켓, 나사체결 가능 
무게(배터리 제외한 무게)	약 88 g

* 옵션 액세서리

마이크



	MME 865-1	MKE 1	SL 헤드 마이크 1
마이크 타입		영구 편광 콘덴서 마이크	
감도	1.6 mV/Pa	5 mV/Pa	5 mV/Pa
방향 특성	수퍼 결정	불	불
최대 음압 레벨	152 dB SPL	142 dB SPL	142 dB SPL

다음 지침의 요구조건을 충족합니다.

유럽		무선 EMC 보안 RoHS	EN 301406 EN 301489-1/-6 EN 60950-1 EN 62311 (SAR) EN 50581
미국		FCC 47 CFR 15	
캐나다		Industry Canada RSS 210 CAN ICES-3(B)/NMB-3(B)	

허가 번호

미국	SL Rack Receiver SL 핸드헬드 SL 바디팩	FCC ID: DMOEM1G9WE FCC ID: DMOSKM1G9WE FCC ID: DMOSK1G9WE
캐나다	SL Rack Receiver SL 핸드헬드 SL 바디팩	IC: 2099A-EM1G9WE IC: 2099A-SKM1G9WE IC: 2099A-SK1G9WE

오스트리아/뉴질랜드		
일본		SL Rack Receiver R 202-SMC048 SL Handheld R 202-SMC049 SL Bodypack R 202-SMC050

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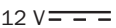
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전원 부품

	NT 12-4C	NT 2-3
공칭 입력 전압	100 ~ 240 V-	
전원 주파수	50 또는 60 Hz	
입력 전류	최대 120 mA	
정격 출력 전압	12 V 	
대기 전력 소비	≤ 0,3 W	
에너지 효율 등급	V	IV
사용 온도	-10°C ~ +55°C	
보관 온도	-20°C ~ +70°C	
상대 습도	최대 95%	
중량	약 100 g	약 105 g

다음 지침의 요구조건을 충족합니다.

유럽		EMC	EN 55022 EN 55024
		보안	EN 60065
		RoHs	EN 50581
		에너지 효율 규정 제	12752008
USA/캐나다	EMC	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B)	
	보안	UL 60065 CAN/CSA-C22.2 No. 60065	
	중국	GB13837, GB17625 GB8898	
오스트리아/뉴질랜드	EMC	AS/NZS CISPR 22	
	보안	AS/NZS 60065	

인증:


유럽	VDF_GS (NT2-3) ENEC 22 SIQ (NZ12-4)
USA/캐나다	 C [®] US
오스트리아/뉴질랜드	
일본	 センハイサーシャパン(株)
중국	 (NT 2-3만 해당)
한국어	 KTL SU 10524-13002 (NT 2-3만 해당)
러시아	 ME95

배터리팩






	BA 10	BA 30
충전 용량	2200 mAh	2030 mAh
출력 전압	3.6 V	3.7 V

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유럽		EMC 보안	EN 301489-1/-6/-17 IEC/EN 62133
USA/캐나다		배터리셀 배터리팩	UL 1642 UL 2054
일본		DENAN Ordinance Article 1; Appendix 9 리튬 이온	
한국어		보안	K 62133
UN 운송 테스트		UN 검사 핸드북 3부, 38.3 리튬 배터리 항목에 의거	

인증:


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日本	 セコハイザージャパン(株)
韩国	

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- RoHS 지침(2011/65/EU)
- 전자파 적합성 지침(2004/108/EU)
- 저전압 지침(2006/95/EU)

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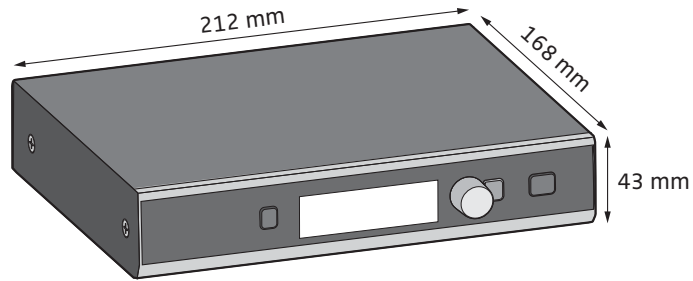
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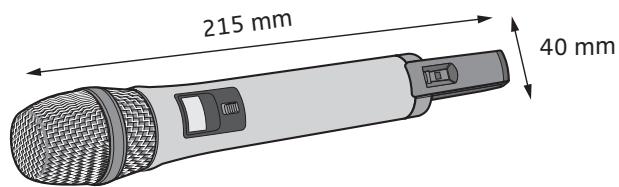
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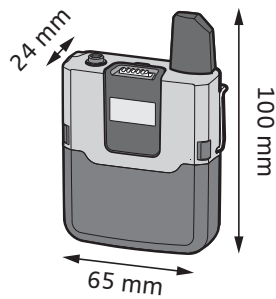
SL Rack Receiver



SL Handheld



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