SL Lavalier Set

Product specification

FEATURES

- · Automatic frequency and interference management
- Excellent speech intelligibility
- · Full, natural sound with low ambient noise
- Lockable 3.5 mm jack socket
- Secure 256 bit AES encryption



The SL Lavalier Set includes the bodypack transmitter, stationary receiver and everything to use or install.

It comes with the MKE 1 condensor lavalier microphone – so not just A lavalier mic, but the best and most unobstrusive one for great presentations with best speech clarity.

All sets also come with rechargeable accupacks with up to 15 hrs of operating time. The accupack is also USB rechargeable, the cable is in the box, the USB socket is presumably just a step away from you.

The two types of sets are either Rackmount Sets (-R version), which come with everything needed for rack mounting, or Case Sets (-C version), in a transport case — without rackmounts, if you do not want to install the receiver.

DELIVERY INCLUDES

- MKE 1 condensor lavalier microphone
- SL Bodypack DW
- BA 30 accupack
- SL Rack Receiver DW (incl. power supply)
- Case (-C version) or GA 4 rackmount kit (-R version)
- Pouch

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: USA: Brazil: Taiwan: Japan:	1,880 to 1,900 MHz 1,920 to 1,930 MHz 1,910 to 1,920 MHz 1,880 to 1,895 MHz 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 Storage:	: -10 °C to 55 °C (14 °F to 131 °F) -20 °C to 70 °C (-4 °F to 158 °F)	
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^{*} The temperature range is influenced by the battery characteristics

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SL Rack Receiver DW

RF sensitivity

Display

Network protocol

Current consumption

AF connection sockets Antenna sockets

DC socket for power supply

Power supply

RF output power back channe
XLR output level, balanced
RCA output level, unbalanced
Audio effects

< -90 dBm			
adaptive, up to a (country-specific			
max. +18 dBu			
max. +6 dBu			
Low cut:	-3 dB at 120 Hz		
Equalizer:	7-band graphic equalizer with sound presets		
Sound profiles:	female voicemale voiceinstrument/ media		
OLED			
Media Control Pr TCP/IP IPv4 (DH IPv6	•		
12 V DC			
350 mA			
XLR/2 x RCA			
2 x reverse SMA			
RJ-45			

Power supply units

Network sockets

Weight

Nominal input voltage
Power frequency
Input current
Nominal output voltage
Standby power consumption
Energy efficiency level
Operating temperature
Storage temperature
Relative air humidity
Weight

NT 12-4C	NT 2-3			
100 to	100 to 240 V-			
50 or 60 Hz				
max. 120 mA				
12 V = = =				
≤ 0.3 W				
V IV -10 °C to 55 °C (14 °F to 131 °F)				
			-20 °C to +70 °C (-4 °F to 158 °F)	
max. 95 %				
approx. 100 g	approx. 105 g			

hollow jack

approx. 828 g

Accupack

Charging capacity		
Output voltage		

BA 30
2030 mAh
3.7 V

SL Bodypack DW

RF output	power
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AF frequency response

Max. input level

Line input impedance Input sensitivity

Power supply

Operating time

AF connection socket

Weight (w/o accupack)

* optional accessory

itput power	adaptive, up to 250 mW	
	(country-specific)	

Mic: 50 to 20,000 Hz Line: 20 to 20,000 Hz Mic: 2.2 V RMS

Line: $1~\text{M}\Omega$

automatic sensitivity adjustment

Accupack: BA 30

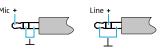
(Li-lon, 3.7 V) 2 x AA size

3.3 V RMS

Batteries*: battery (1.5 V)

typ. 15 h Accupack Batteries*: typ. 11 h

3.5 mm jack socket, lockable



approx. 88 g

Microphone

Microphone type

Sensitivity Pick-up pattern Max. SPL

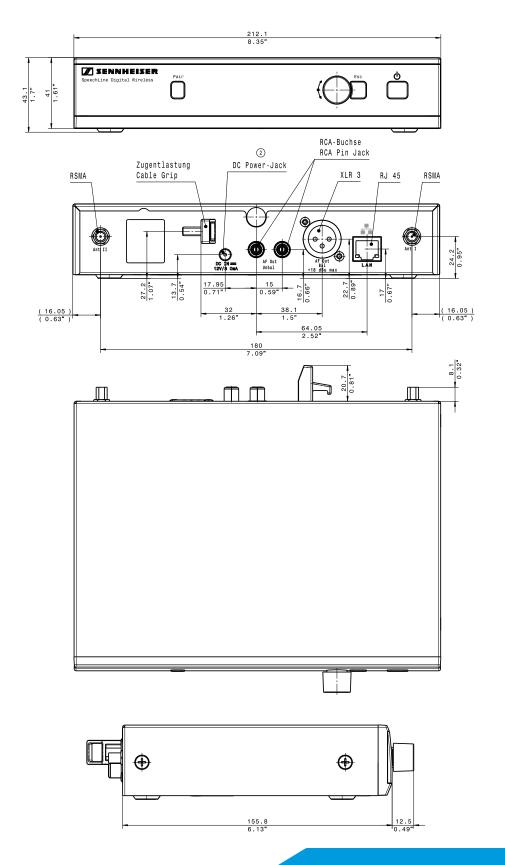
MKE 1

pre-polarized condenser microphone

5 mV/Pa omni-directional 142 dB SPL

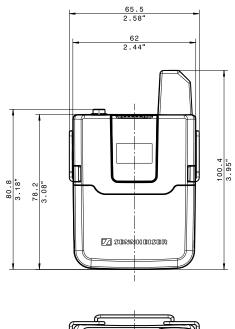
DIMENSIONS

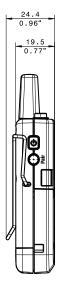
SL Rack Receiver DW

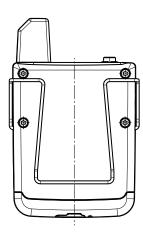


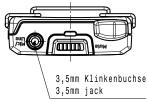
DIMENSIONS

SL Bodypack DW









ARCHITECT'S SPECIFICATIONS

A wireless RF transmission system designed for presentation use and other applications where maximum speech intelligibility is required.

The system shall consist of a stationary receiver, a bodypack transmitter and a condenser clip-on microphone.

Operating in the license-free 1.9 GHz band (frequency ranges are between 1,880 and 1,930 MHz, depending on country-specific regulations), the system shall use automatic frequency management to determine the best free available frequency and to automatically start the transmission. Additionally, the system shall incorporate automatic interference management, allowing the transmitter and receiver to move to an undisturbed, compatible frequency with no audio signal interruption, should interference occur. Furthermore, advanced 256-bit AES encryption shall be used for secure wireless transmission.

The system's AF frequency response shall range from 20-20,000 Hz. The dynamic range shall be > 120 dB(A). Total harmonic distortion (THD) at 1 kHz shall be typical 0.1 %. Signal-to-noise ratio shall be > 90 dB(A). Latency shall be 19 ms. Operating temperature shall range from -10 °C to +55 °C (+14 °F to +131 °F).

The user interface of the receiver shall be operated by jog dial and OLED display. The receiver shall have dedicated pairing, escape and power buttons.

The receiver shall feature a low-cut filter as well as speech-optimized sound profiles or custom settings with a 7-band graphic equalizer. The receiver's RF sensitivity shall be -90 dBm. RF output power of the receiver's back channel shall be adaptive and up to 250 mW (country-specific).



The receiver's audio output shall utilize a balanced XLR-3M socket with a maximum output of +18 dBu along with two unbalanced RCA sockets with a maximum output of +6 dBu. The receiver shall feature automatic gain optimization. Two reverse SMA sockets shall be provided for connecting the antennas.

The receiver shall feature RJ-45 network connectivity compatible with IPv4 and IPv6 networks. For remote control the receiver shall have media control protocol integration.

The receiver shall operate on 12 V DC power supplied from the NT 12-4C power supply unit (100-240 V AC, 50/60 Hz, for use in the USA, the UK, and Europe) or the NT 2-3 power supply unit (100-240 V AC, 50/60 Hz, for use in countries other than the USA, the UK, and Europe). Power consumption shall be 350 mA. The dimensions shall be approximately 168 x 212 x 43 mm (6.61" x 8.35" x 1.69"). Weight shall be approximately 828 grams (1.83 lbs). The receiver shall be the Sennheiser SL Rack Receiver DW.

The transmitter shall be powered by either one Sennheiser Lithium-Ion rechargeable accupack with a typical operating time of 15 hours or with an optional battery case for two 1.5V AA size batteries. The accupack can be quickly charged through a wide variety of charging options, including micro USB. The accupack shall have charging contacts on the outside for charging in the dedicated CHG 2 charger.

The bodypack transmitter's microphone/line input shall utilize a lockable 3.5 mm jack socket. The AF frequency response shall range from 50-20,000 Hz (mic) and from 20-20,000 Hz (line). RF output power shall be adaptive and up to 250 mW (country-specific). The maximum input level shall be 2.2 Vrms (mic) or 3.3 Vrms (line). Input impedance shall be 1 M Ω (line). The bodypack transmitter shall have automatic sensitivity adjustment. Dimensions shall be approximately $100 \times 65 \times 24$ mm (3.94" x 2.56" x 0.94"). Weight (without accupack) shall be approximately 88 grams (3.10 oz). The bodypack transmitter shall feature an LC display showing wireless link name, battery status, and reception quality. The bodypack transmitter shall be the Sennheiser SL Bodypack DW.

The microphone suitable for use with the bodypack transmitter shall be a condenser type with an omni-directional pick-up pattern and a sensitivity of 5 mV/Pa. Maximum sound pressure level shall be 142 dB SPL. The clip-on microphone shall be the Sennheiser MKE 1.

The wireless RF transmission system shall be the Sennheiser SpeechLine Digital Wireless SL Lavalier Set.

PRODUCT VARIANTS

Set	Art. No.	Power supply / Set version	Frequency range	Countries
SL LAVALIER SET DW-3-EU C	505879	EU power supply / Case	1,880 – 1,900 MHz	Europe, India Indonesia
SL LAVALIER SET DW-3-UK C	505889	UK power supply / Case	1,880 – 1,900 MHz	UK, Hong Kong, Singapore, Malaysia
SL LAVALIER SET DW-3-AU C	506161	AU power supply / Case	1,880 – 1,900 MHz	Australia
SL LAVALIER SET DW-4-US C	505896	US power supply / Case	1,920 – 1,930 MHz	USA, Canada
SL LAVALIER SET DW-4-EU C	506168	EU power supply / Case	1,920 – 1,930 MHz	Latin America
SL LAVALIER SET DW-5-US C	505916	US power supply / Case	1,893 – 1,906 MHz	Japan
SL LAVALIER SET DW-6-US C	505906	US power supply / Case	1,880 – 1,895 MHz	Taiwan
SL LAVALIER SET DW-7-BR C	506700	BR power supply / Case	1,910 – 1,920 MHz	Brazil
SL LAVALIER SET DW-3-EU R	505886	EU power supply / Rackmount	1,880 – 1,900 MHz	Europe, India Indonesia
SL LAVALIER SET DW-3-UK R	505893	UK power supply / Rackmount	1,880 – 1,900 MHz	UK, Hong Kong, Singapore, Malaysia
SL LAVALIER SET DW-3-AU R	506165	AU power supply / Rackmount	1,880 – 1,900 MHz	Australia
SL LAVALIER SET DW-4-US R	505903	US power supply / Rackmount	1,920 – 1,930 MHz	USA, Canada
SL LAVALIER SET DW-4-EU R	506172	EU power supply / Rackmount	1,920 – 1,930 MHz	Latin America
SL LAVALIER SET DW-5-US R	505923	US power supply / Rackmount	1,893 – 1,906 MHz	Japan
SL LAVALIER SET DW-6-US R	505913	US power supply / Rackmount	1,880 – 1,895 MHz	Taiwan
SL LAVALIER SET DW-7-BR R	506707	BR power supply / Rackmount	1,910 – 1,920 MHz	Brazil

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