SENNHEISER

e604

Instructions for use

evolution

e604

The cardioid e604 is a dynamic microphone suitable for miking drums, percussions as well as brass and woodwind instruments.

The frequency response and cardioid pick-up pattern are optimised for use with snares and toms. The mic has a very high sound pressure handling capability (in excess of 160 dB). The sound inlet basket is made from stainless steel.

The integral stand mount screws directly onto mic stands or to the supplied microphone clamp. The clamp allows the microphone to be directly attached to the rim of the instrument.

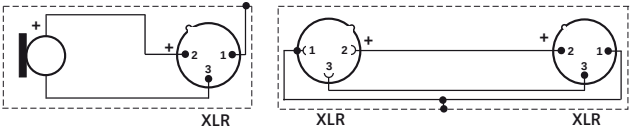
Features

- Rugged reinforced glass-fibre body
- Low sensitivity to impact and handling noise
- Very high sound pressure handling capability (in excess of 160 dB)
- Humbucking coil
- Easy to position due to compact design
- Integral stand mount

Delivery includes

- e604 microphone
- MZH 604 microphone clamp
- Pouch
- Instructions for use
- Warranty Certificate

Pin assignment of XLR-3 connector



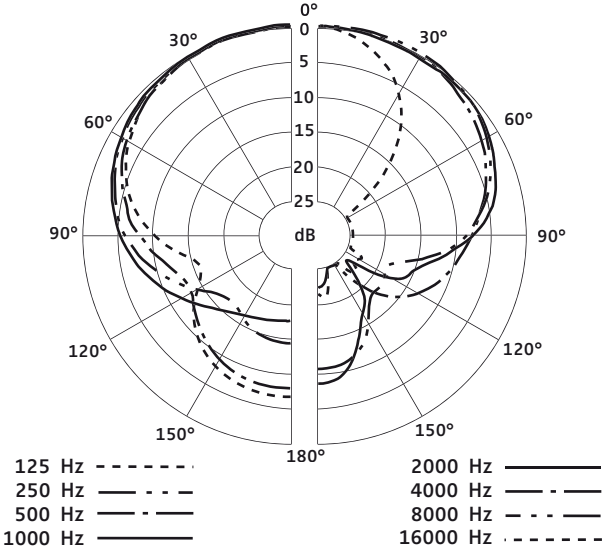
Positioning the microphone

Drums

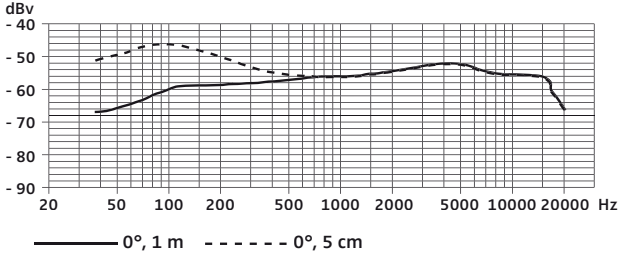
Position	Resulting sound	Commentary
	More fundamental, little overtones	Position on the drum: 3–5 cm above the drumskin, the fundamental to overtones ratio can be adjusted by changing the angle of the microphone. The most balanced results are obtained at an angle of 30–60°.
	Less fundamental, many overtones	
		Use of a second ©604 for picking up the bottom of the drumskin and the snares. NB: The lower microphone must be phase-reversed to avoid phase-cancellation effects due to the second microphone being on the other side of the drumskin.

In order to prevent interference due to crosstalk between adjacent sound sources, try to position the microphone so that the interfering sound source is located in the angle area of the highest cancellation of the microphone (approx. 135°; see polar diagram).

Polar diagram



Frequency response curve



Specifications

Transducer principle	dynamic
Frequency response	40.....18,000 Hz
Pick-up pattern	cardioid
Sensitivity (free field, no load) (at 1 kHz)	1.8 mV/Pa
Nominal impedance (at 1 kHz)	350 Ω
Min. terminating impedance	1 kΩ
Connector	XLR-3
Operating temperature	0°C to +40°C
Dimensions	Ø 33 x L 59 mm
Weight	60 g

Overview of microphone applications

Application \ Variant	e602-II	e604	e606	e608	e614	e815	e825	e835	e840	e845	e865
Vocals						x	x	x	x	x	x
Choirs					x						
Studio, acoustic instruments					x						
Orchestra					x						
Brass / Saxophone	x	x		x							
Acoustic guitar					x						
Acoustic bass					x						
Guitar amplifiers			x								
Bass amplifiers	x										
Leslie	x	x	x								
Piano, grand piano					x						
Kick drums	x										
Snare drums		x	x	x							
Rack toms		x	x	x							
Floor toms	x	x	x								
Congas		x	x	x							
Cymbals					x						
Percussion		x	x	x	x						
Overheads					x						

Manufacturer declarations

Warranty

2 years

Approval

Sennheiser electronic GmbH & Co. KG declare that this device is in compliance with the applicable CE standards and regulations.

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

WEEE Declaration

Please dispose of this product at the end of its operational lifetime by bringing it to your local collection point or recycling centre for such equipment.

Sennheiser electronic GmbH & Co. KG
30900 Wedemark, Germany
www.sennheiser.com

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