



4017 Shotgun Microphone

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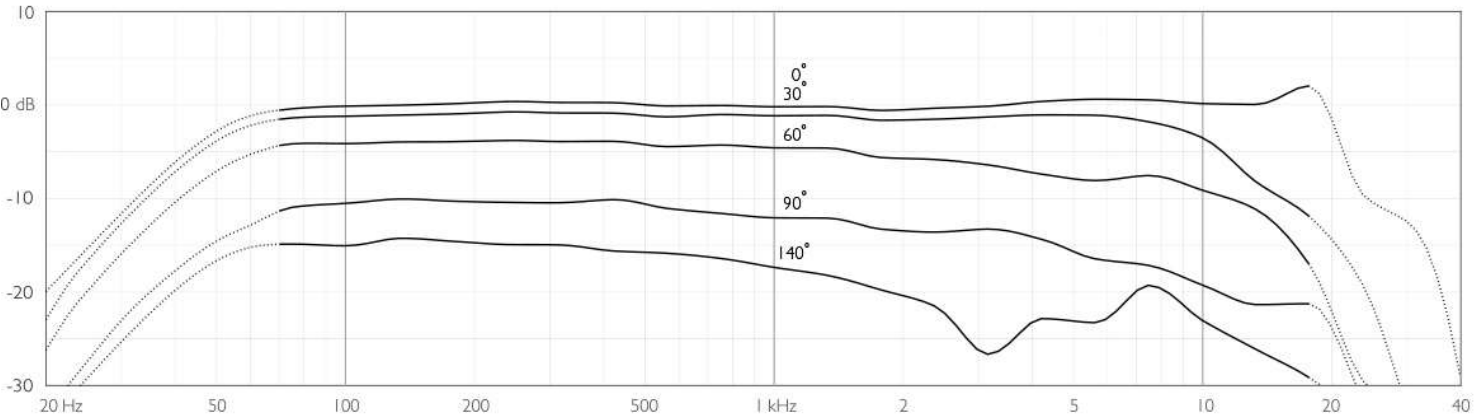
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Specifications - 4017B

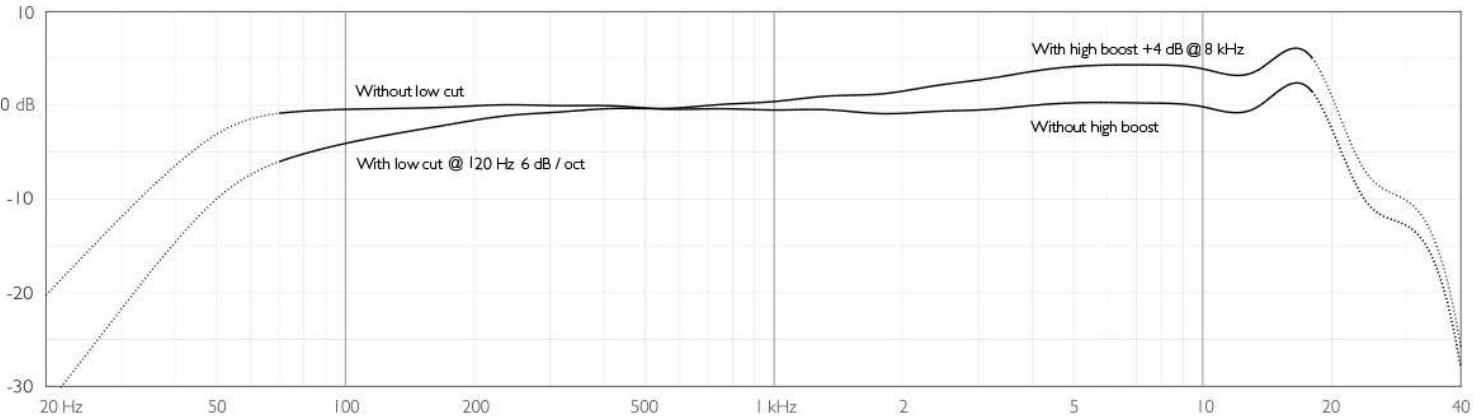
Directional pattern	Supercardioid, lobe-shaped
Principle of operation	Pressure gradient, with interference tube
Cartridge type	Pre-polarized condenser

Frequency response	20 Hz - 20 kHz, permanent third order high pass filter at 50 Hz
Effective frequency range, ± 2 dB, at 60 cm (23.6 in)	70 Hz - 18 kHz with typ. 3 dB soft boost at 15 kHz
Sensitivity, nominal, ± 2 dB at 1 kHz	19 mV/Pa; -34.4 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 13 dB(A) re. 20 μ Pa (max. 15 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 24 dB (max. 26 dB)
Distortion, THD < 1%	134 dB SPL RMS, 137 dB SPL peak
Dynamic range	Typ. 124 dB
Max. SPL, THD 10%	138 dB SPL peak
Switchable attenuator, filters etc.	High boost: +4 dB at 8 kHz. Low cut: First order filter, below 120 Hz
Rated output impedance	100 Ω
Minimum load impedance	2 k Ω
Cable drive capability	100 m (328 ft)
Output balance principle	Signal balanced
Common mode rejection ratio (CMRR)	> 40 dB
Power supply (for full performance)	P48 (Phantom Power)
Current consumption	4.5 mA
Connector	XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: signal - phase
Color	Matte black
Weight	75g (2.65 oz)
Microphone diameter	19 mm (0.75 in)
Capsule diameter	19 mm (0.75 in)

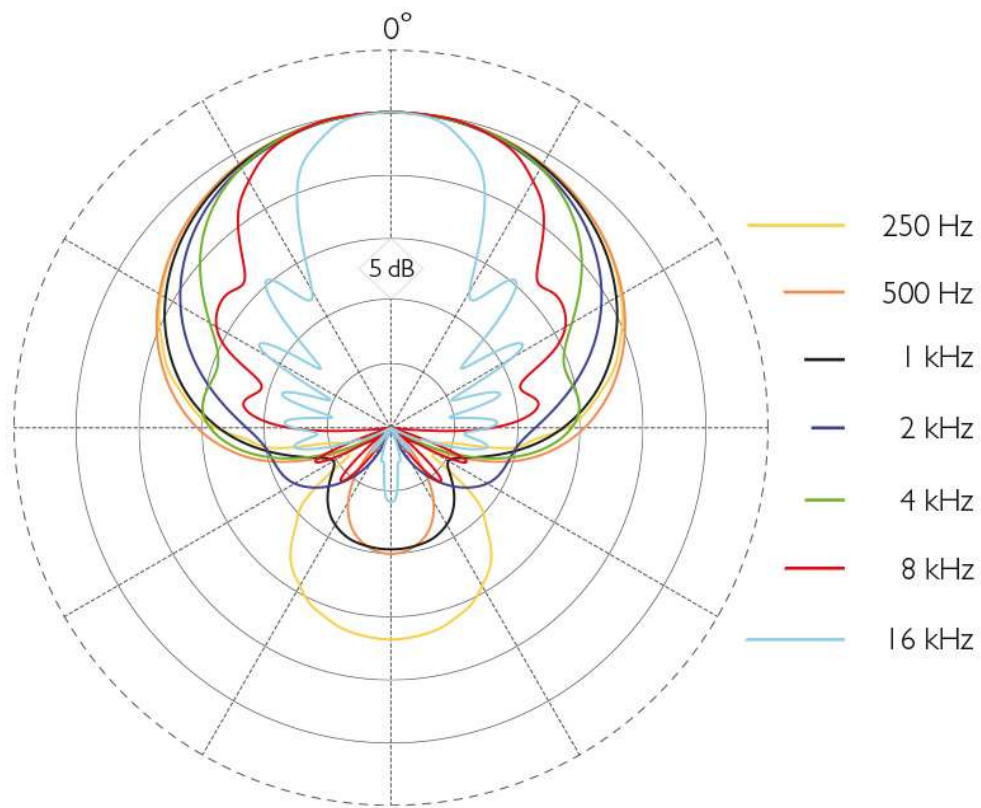
Microphone length	212 mm (8.3 in)
Maximum output voltage, RMS	2.0 V
Polarity	+V at pin 2 for positive sound pressure
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%



Typical on and off-axis response of a 4017B Shotgun Microphone measured at 60 cm (23.6 in)



Frequency response of switching filters on 4017B measured at 60 cm (23.6 in)



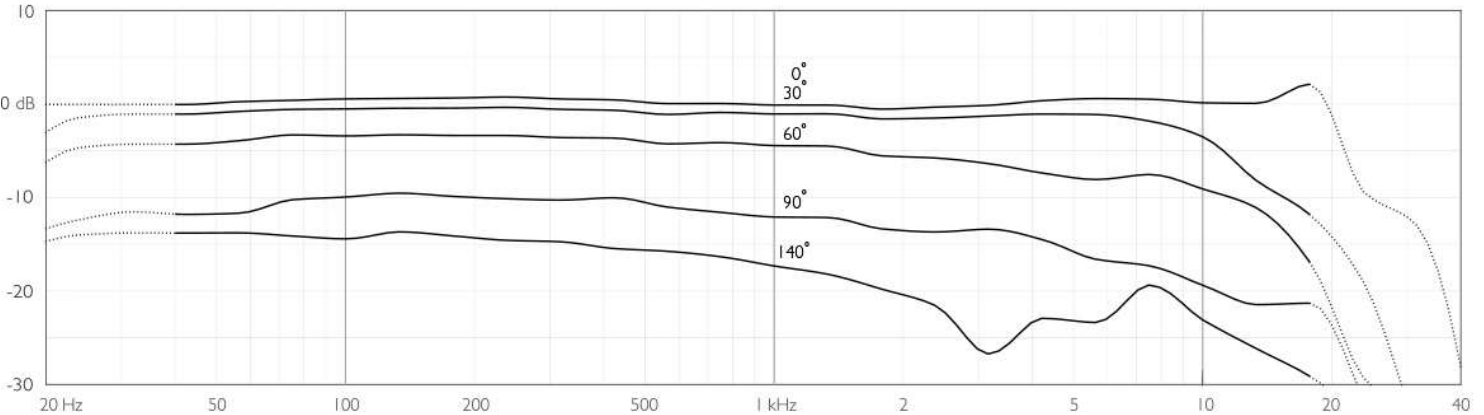
Typical directional characteristics of a 4017B Shotgun Microphone



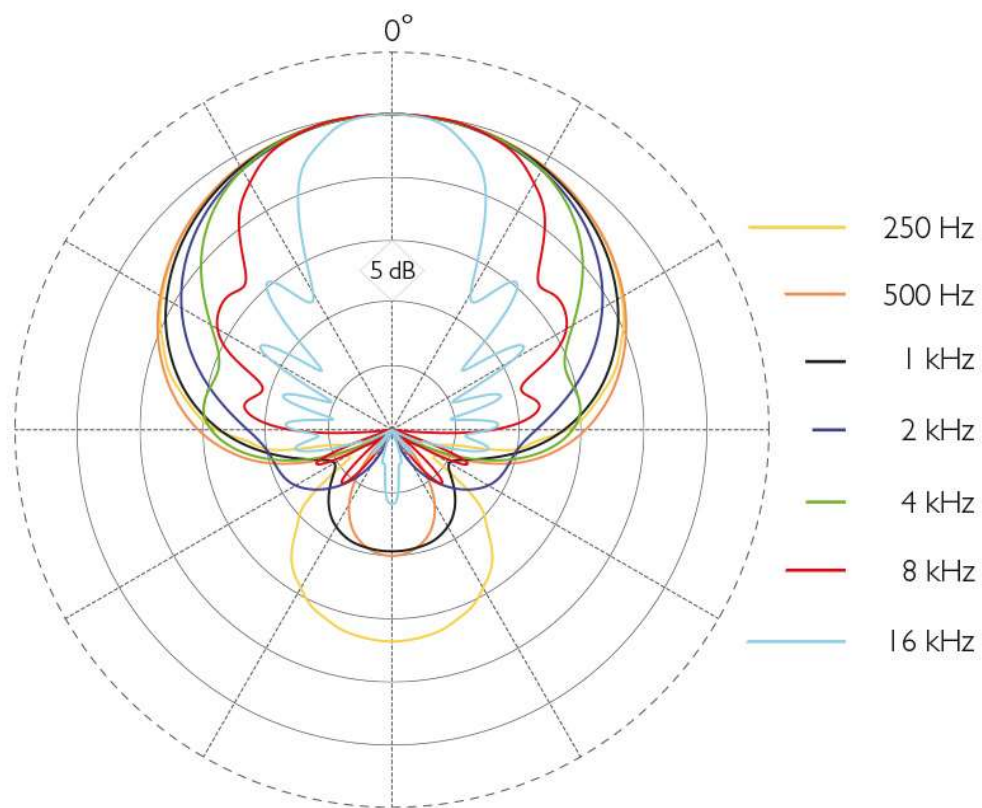
Specifications - 4017C

Directional pattern	Supercardioid, lobe-shaped
Principle of operation	Pressure gradient, with interference tube
Cartridge type	Pre-polarized condenser
Frequency response	20 Hz - 20 kHz
Effective frequency range, ±2 dB, at 60 cm (23.6 in)	40 Hz - 18 kHz with typ. 3 dB soft boost at 15 kHz
Sensitivity, nominal, ±2 dB at 1 kHz	19 mV/Pa; -34.4 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 13 dB(A) re. 20 µPa (max. 15 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 24 dB (max. 26 dB)
Distortion, THD < 1%	134 dB SPL RMS, 137 dB SPL peak
Dynamic range	Typ. 124 dB
Max. SPL, THD 10%	146 dB SPL peak
Rated output impedance	100 Ω
Minimum load impedance	2 kΩ
Cable drive capability	100 m (328 ft)
Output balance principle	Impedance balancing with Active Drive
Common mode rejection ratio (CMRR)	> 50 dB
Power supply (for full performance)	P48 (Phantom Power)
Current consumption	2.8 mA
Connector	XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase
Color	Matte black

Weight	73g (2.57 oz)
Microphone diameter	19 mm (0.75 in)
Capsule diameter	19 mm (0.75 in)
Microphone length	154 mm (6 in)
Maximum output voltage, RMS	4.5 V
Polarity	+V at pin 2 for positive sound pressure
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%



Typical on and off-axis response of a 4017C Shotgun Microphone measured at 60 cm (23.6 in)



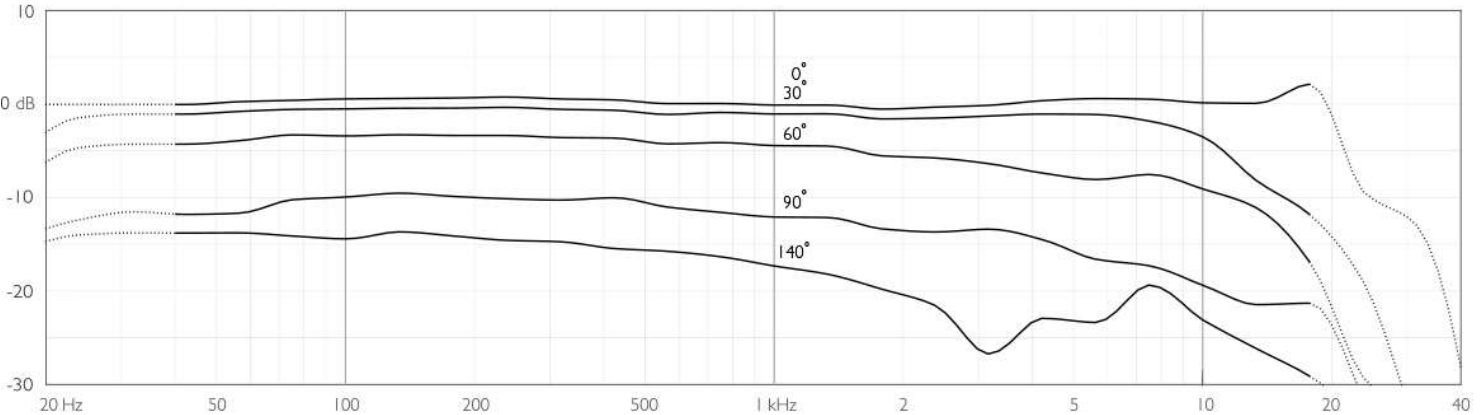
Typical directional characteristics of a 4017C Shotgun Microphone



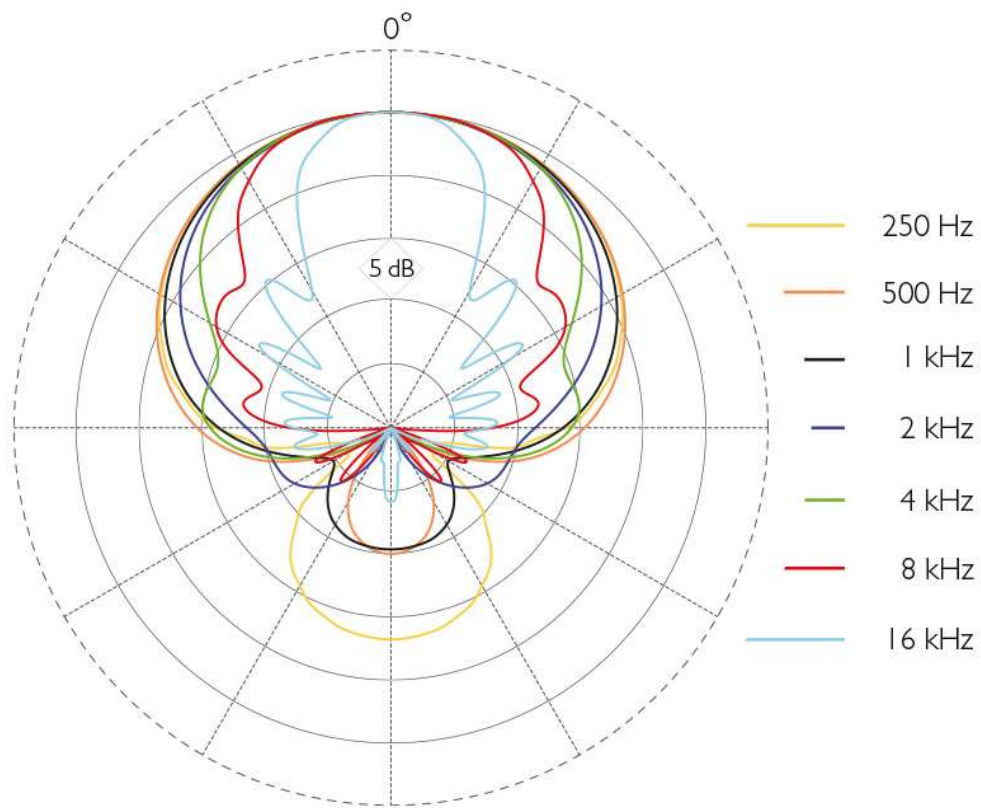
Specifications - 4017ER/ES

Directional pattern	Supercardioid, lobe-shaped
Principle of operation	Pressure gradient, with interference tube
Cartridge type	Pre-polarized condenser
Frequency response	20 Hz - 20 kHz
Effective frequency range, ±2 dB, at 60 cm (23.6 in)	40 Hz - 18 kHz with typ. 3 dB soft boost at 15 kHz
Sensitivity, nominal, ±2 dB at 1 kHz	19 mV/Pa; -34.4 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 13 dB(A) re. 20 µPa (max. 15 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 24 dB (max. 26 dB)
Distortion, THD < 1%	134 dB SPL RMS, 137 dB SPL peak
Dynamic range	Typ. 124 dB
Max. SPL, THD 10%	138 dB SPL peak
Rated output impedance	100 Ω
Minimum load impedance	2 kΩ
Cable drive capability	100 m (328 ft)
Output balance principle	Impedance balancing
Common mode rejection ratio (CMRR)	> 40 dB
Power supply (for full performance)	P48 (Phantom Power)
Current consumption	3.5 mA
Connector	XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase
Color	Matte black

Weight	121 g (4.3 oz)
Microphone diameter	19 mm (0.75 in)
Capsule diameter	19 mm (0.75 in)
Microphone length	125 mm (4.9 in)
Maximum output voltage, RMS	2.2 V
Polarity	+V at pin 2 for positive sound pressure
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%



Typical on and off-axis response of a 4017ER/ES Shotgun Microphone measured at 60 cm (23.6 in)



Typical directional characteristics of a 4017ER/ES Shotgun Microphone