

4017 SHOTGUN MICROPHONE
FROM DPA MICROPHONES



DPA 
MICROPHONES

Compact and exceptionally lightweight

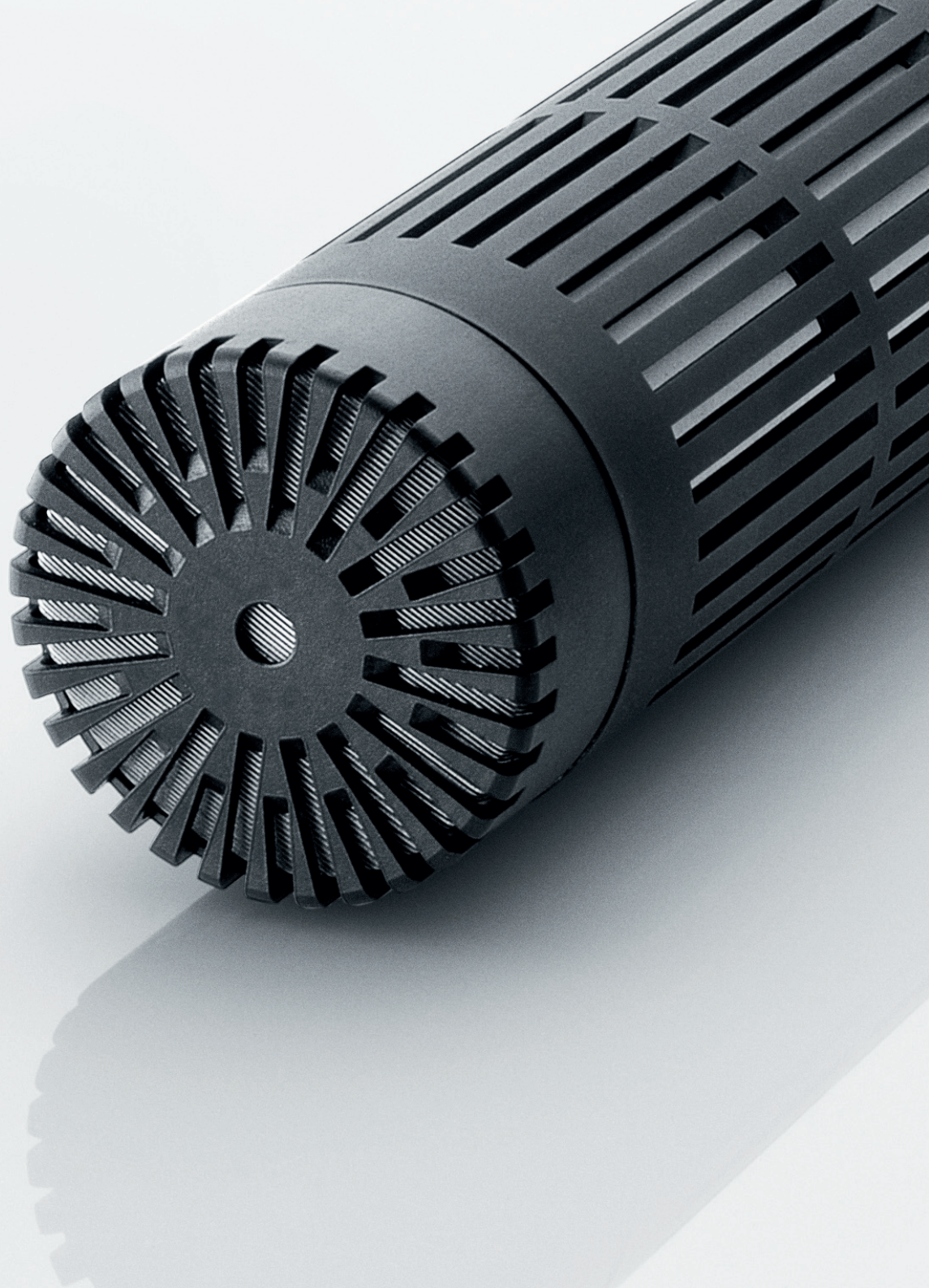
Neutral and accurate

Designed for booming in film and TV

Extensive dynamic range

Professional microphone solutions for any need







DPA 4017 Shotgun Microphone – compact, lightweight, and deadly accurate

The DPA 4017 is a short and exceptionally lightweight shotgun microphone, offering a very directional pickup pattern with the typical natural DPA clarity maintained. It has been designed for a broad range of uses, from camera systems to fixed positions at sports facilities and for booming in ENG, broadcast, and film applications.

Suppressing unwanted surrounding components to the signal, the 4017 is the state-of-the-art shotgun microphone with a smooth off-axis sound and large dynamic range. At just 210 mm (8.3 inches) in length and 71 grams (2.5 ounces) in weight, the DPA 4017 is compact in size and among the lightest boom microphones available.

Extensive research and development has been undertaken to optimize the sound coming from the sides and from behind. Minimizing the often very un-linear response of a shotgun microphone due to its side lobes is one of the key objectives of the 4017. The condenser capsule uses a high voltage pre-polarized back plate, giving the DPA 4017 high output as well as low noise and low distortion.

DPA 4017 features two switching filters incorporated in a brand new switching ring design: High boost +4 dB at 8 kHz and first order bass roll-off below 300 Hz. A permanent third order high pass filter at 50 Hz removes unwanted low frequency disturbance from handling and wind noise.

Due to its remarkable clarity, wide dynamic range, and excellent rejection characteristics, the DPA 4017 is equally at home in the recording studio and when used for sound reinforcement and live music miking.

For further information, please visit www.dpamicrophones.com.

Specifications

Cartridge type:

19 mm (0.75 in) pre-polarized condenser

Principle of operation:

Pressure gradient, supercardioid with interference tube

Power supply:

48 V Phantom power

Frequency range; ± 2 dB:

70 Hz – 20 kHz, permanent third order high pass filter at 50 Hz

Switching filters:

High boost, +4 dB at 8 kHz (shelving)

Bass roll-off, first order filter, below 300 Hz

Directional characteristics:

Supercardioid, lobe-shaped

Sensitivity, nominal, ± 2 dB:

30 mV/Pa; -30 dB re. 1 V/Pa

Equivalent noise level A-weighted:

Typ. 14 dB(A) (max. 15 dB(A))

Equivalent noise level ITU-R BS.468-4:

Typ. 25 dB (max. 26 dB)

Max SPL, peak before clipping:

132 dB

Total harmonic distortion:

<0.5 % up to 130 dB SPL peak

<1 % up to 131 dB SPL peak

Output voltage:

Max. 2.2 V peak

Output impedance:

<200 ohm

Dynamic range:

Typ. 117 dB

S/N ratio, re. 1 kHz at 1 Pa (94 dB SPL):

80 dB(A)

Connector:

XLR-3M, Pin 1: Shield, Pin 2: Signal + phase, Pin 3: Signal - phase

Polarity:

Positively increasing sound pressure creates positive going voltage on pin 2.

Current consumption:

4.5 mA

Cable drive capability:

Up to 100 m (328 ft)

Color:

Matte black

Material:

Aluminum

Dimensions

Microphone length:

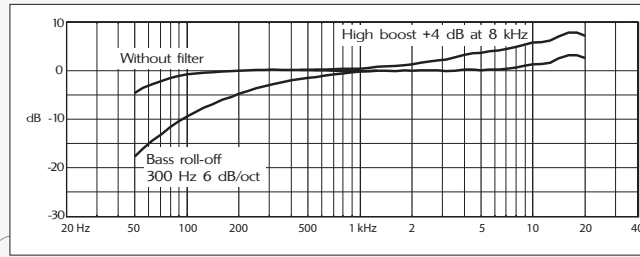
210 mm (8.3 in)

Microphone diameter:

19 mm (0.75 in)

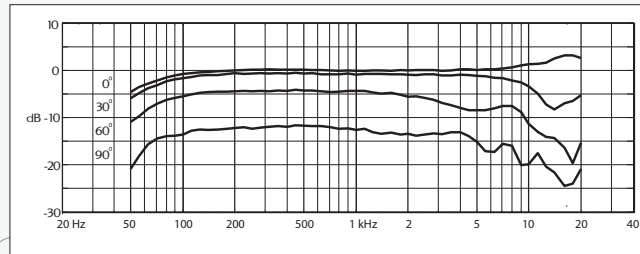
Weight:

71 g (2.5 oz)



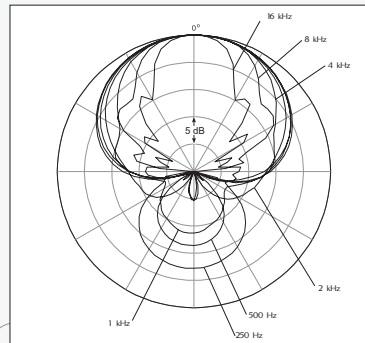
Frequency Response

Frequency response of 4017 on-axis.



Frequency Response

On- and off-axis response of 4017 measured at 60 cm (23.6 in).



Polar Pattern

Directional characteristics of DPA 4017 (normalized).



Other broadcast microphones



DPA Miniatures for speech and close-miking instrument applications. Originally designed for use with wireless systems in theater, television, and close-miking instrument applications, the capsule is smaller than a pencil eraser. These miniature mics show exceedingly true omnidirectionality. Because of their size, they have a neutral character and a rounded present sound with a highly natural response. Manufactured to exacting standards, the miniature range is tailored to handle heat, humidity, and sweat as well as wind and popping.

For further information on DPA Miniatures, see www.dpamicrophones.com

DPA Compacts – the choice of musicians for maximum clarity. Specifically designed to satisfy the demands of professionals, the DPA Compact Microphones offer ingenious mounting solutions as well as sonic excellence. Use a carefully matched Compact Stereo Kit for ORTF and XY stereo setups or place individual mics in DPA's elegant Flamingo series of floor and table stands. Our Compact Cardioids use the same capsule as the extremely popular 4011, but are preamplified using a built-in miniaturized thick-film mounted FET amplifier. The result is incredibly compact, high-performance microphones.

For further information on DPA Compacts, see www.dpamicrophones.com



DPA Standards and Large Diaphragm for the highest resolution. DPA Standard Microphones are high quality studio microphones comprised of omnis, cardioids, and wide cardioids. Our finest microphones with their pedigree slim housing and distinctive grid are designed for sonic integrity in any venue. There is no comparison to the complete and honest accuracy of these microphones. They deliver a totally faithful reproduction of the original sound with state-of-the-art components carefully selected to provide optimal neutrality, accuracy, and extremely low distortion.

For further information on DPA Standards, see www.dpamicrophones.com

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