



## DPA 4017-R Shotgun Microphone with Rycote Windshield



## State-of-the-art broadcast/film microphone solution from DPA

DPA Microphones has joined forces with Rycote to develop the DPA 4017-R Shotgun Microphone with Rycote Windshield Solution. The new strong suspension and windshield solution has been designed specifically to take the DPA 4017 shotgun mic's compact size and light weight into consideration. The 4017 is a short (210 mm) and exceptionally lightweight (71 g) shotgun microphone offering a very directional pickup pattern.

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. 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.

The 4017-R solution provides everything an outside broadcaster, journalist, or location film maker could need for clear, directional sound, regardless of the weather and environmental conditions.

The DPA 4017-R consists of a DPA 4017 Shotgun Microphone including XLR Cable and Windscreen, and a Rycote Windshield 2 kit (210 mm), including Fur Windjammer, Suspension, and XLR Holder.



## Specifications

### Directional characteristics

Supercardioid, lobe-shaped shotgun

### Principle of operation

Pressure gradient, supercardioid with interference tube

### Cartridge type

19 mm (0.75 in) pre-polarized condenser

### Frequency range; $\pm 2$ dB

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

### Sensitivity, nominal, $\pm 2$ dB (at 1 kHz)

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 B5.468-4

Typ. 25 dB (max. 26 dB)

### S/N ratio (A-weighted), re. 1 kHz at 1 Pa (94 dB SPL)

80 dB(A)

### Total Harmonic Distortion (THD)

<0.5 % up to 130 dB SPL peak

<1 % up to 131 dB SPL peak

### Dynamic range

Typ. 117 dB

### Max. SPL, peak before clipping

132 dB

### Switching filters

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

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

### Output impedance

<200 ohm

### Cable drive capability

Up to 100 m (328 ft)

### Power supply

48 V Phantom power

### Current consumption

45 mA

### Connector

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

### Color

Matte black

### Dimensions

Weight of 4017: 71 g (2.5 oz)

Weight of 4017-R (4017 in Suspension

Mount with Windshield and XLR cable): 397 g (14 oz)

Weight of Rycote Fur Windjammer: 148 g (5.2 oz)

Diameter: 19 mm (0.75 in)

Length of microphone: 210 mm (8.3 in)

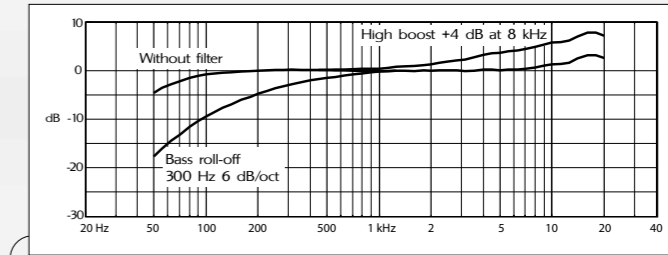
Length of Rycote Windshield: 330 mm (12.9 in)

### Output voltage

Max. 2.2 V peak

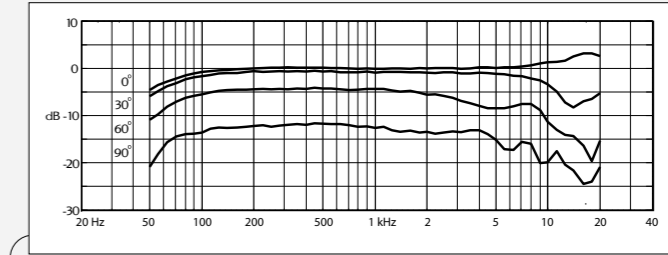
### Polarity

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



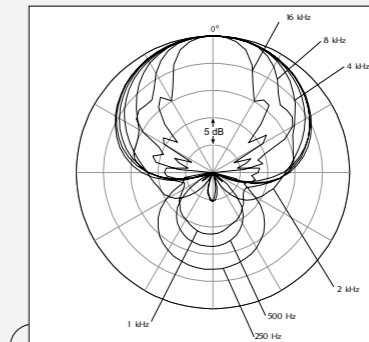
### Frequency Response

Frequency response of switching filters.



### Frequency Response

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



### Polar Pattern

Directional characteristics of DPA 4017 (normalized).



# DPA

M I C R O P H O N E S

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