

## d:dicat<sup>TM</sup> 4018A Supercardioid Microphone

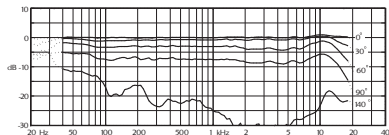
A combination of the MMC4018 Microphone Capsule and the MMP-A Preamplifier, this mic is part of the modular d:dicat<sup>TM</sup> Recording Microphones series. At any time and with no tools necessary it is transform the basic 4018A Microphone into a new configuration by combining it with another d:dicat<sup>TM</sup> Microphone Capsule or Preamplifier.

### Performance

Mount the foam windscreen on the mic head whenever used outdoors or in air turbulent situations such as close miking voice in order to prevent wind or pop noise.

With each d:dicat<sup>TM</sup> Microphone Capsule, comes a unique calibration chart that shows the exact frequency response of the purchased capsule measured with a linear MMP-A Preamplifier.

Typical on- and off-axis and frequency responses for a MMC4018 at 30 cm (1ft):



### Attenuation pad

The MMP-A Preamplifier has a 20 dB attenuation push-switch at the XLR connector. Use a pencil or the like to activate the attenuator and lower output by 20 dB.



[dpamicrophones.com](http://dpamicrophones.com) / 4018A

### Service & repair

If you are not satisfied with the characteristics exhibited by this product, please go to [www.dpamicrophones.com/service](http://www.dpamicrophones.com/service) for instructions.

### Warranty

The d:dicat<sup>TM</sup> 4018A Supercardioid Microphone is covered by a five-year limited warranty.

### CE marking

This product conforms to all relevant directives approved by the European Commission.

# Specifications

## Directional pattern

Supercardioid

## Principle of operation

Pressure gradient

## Cartridge type

Pre-polarized condenser

## Frequency range

10 Hz - 20 kHz

## Frequency range, $\pm 2$ dB, at 30 cm

40 Hz - 18 kHz

## Sensitivity, nominal, $\pm 2$ dB at 1 Hz

12 mV/Pa; -38.4 dB re. 1 V/Pa

## Equivalent noise level, A-weighted

Typ. 16 dB(A) re. 20  $\mu$ Pa (max. 19 dB)

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

Typ. 78 dB(A)

## Total Harmonic Distortion (THD)

< 1 % up to 137 dB SPL peak

## Dynamic range

Typ. 121 dB

## Max. SPL, peak before clipping

157 dB

## Switchable attenuator, filters etc.

0 dB / -20 dB

## Output impedance

200  $\Omega$

## Minimum load impedance

2 k $\Omega$

## Cable drive capability

100 m (328 ft)

## Output balance principle

Impedance balancing with Active Drive

## Common Mode Rejection Ratio (CMRR)

> 60 dB

## Power supply

48 V Phantom power ( $\pm 4$  V)

## Current consumption

2.8 mA

## Connector

XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase

## Color

Matte black

## Weight

158 g (5.6 oz)

## Microphone diameter

19 mm (0.75 in)

## Capsule diameter

19 mm (0.75 in)

## Microphone length

170 mm (6.7 in)

## Maximum output voltage, RMS

7 V

## Polarity

+V at Pin 2 for positive sound pressure

## Temperature range

-40 to 45  $^{\circ}$ C (-40 to 113  $^{\circ}$ F)

## Relative Humidity (RH)

Up to 90%