

d:icate™ 4006ER Omni Microphone, Rear cable d:icate™ 4006ES Omni Microphone, Side cable

A combination of the MMC4006 Microphone Capsule and the MMP-E modular active cable, this mic is part of the modular d:icate™ Recording Microphone series. At any time and with no tools necessary it is possible to transform the basic 4006E Microphone into a new configuration by combining it with another d:icate™ Microphone Capsule or Preamplifier.

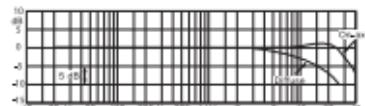
Suspension mount & windscreens

Suspend the mic in the mount by securing the hook around the notch on the preamp. Subsequently twist the cable in the spiral-shaped end of the mount. This allows the Microphone to hang in its own cable and be adjusted to any direction by bending the boom.

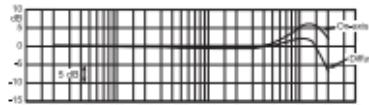
Mount the foam windscreens on the mic head whenever used outdoors or in air turbulent situations such as close miking voice in order to prevent wind or pop noise.

Grids

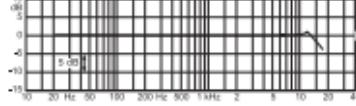
The d:icate™ 4006E is supplied with three different grids that are used to change characteristics of the microphone acoustically. Be extremely careful not to touch the exposed diaphragm when switching grids. Do not attempt to remove dust as it will not affect the performance of the Microphone.



The pre-mounted silver near-field grid (DD0251) exhibits neutral frequency response when used in near sound field (direct sound field).



The black diffuse-field grid (DD0297) offers recording accuracy in diffuse sound field (far field) by compensating for the neutral high frequency loss caused by air absorption.



The silver trapezoid close-mic grid (DD0254) subtly rolls off the highest frequencies to create smoother treble response when close miking sources with bright transient

dpa microphones.com / 4006E

Service & repair

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

Warranty

The d:icate™ 4006ER-4006ES Omni 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

Omnidirectional

Principle of operation

Pressure

Cartridge type

Pre-polarized condenser

Frequency range

10 Hz - 20 kHz

Frequency range, ± 2 dB

20 Hz - 20 kHz

Sensitivity, nominal, ± 2 dB at 250 Hz

36 mV/Pa; -28,9 dB re. 1 V/Pa

Equivalent noise level, A-weighted

Typ. 15 dB(A) re. 20 μ Pa (max. 17 dB(A))

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

Typ. 79 dB(A)

Total Harmonic Distortion (THD)

< 1 % up to 126dB SPL RMS-129 dB SPL peak

Dynamic range

Typ. 117 dB

Max. SPL, peak before clipping

129 dB

Output impedance

100 Ω

Minimum load impedance

2 k Ω

Cable drive capability

100 m (328 ft)

Output balance principle

Impedance balancing

Common Mode Rejection Ratio (CMRR)

> 40 dB

Power supply (for full specifications)

48 V Phantom power (± 4 V)

Current consumption

3.5 mA

Connector

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

Color

Matte black

Weight

114g (4 oz)

Microphone diameter

16-19 mm (0.6 - 0.75 in)

Capsule diameter

16 mm (0.6 in)

Microphone length

35 mm (1.38 in)

Output voltage, RMS

2.2 V

Polarity

+V at Pin 2 for positive sound pressure

Temperature range

-40 to 45 °C (-40 to 113 °F)

Relative Humidity (RH)

Up to 90%