

Standard Microphones

4006: Omnidirectional Microphone, P48

4003: Omnidirectional Microphone, 130V



4006



4003

Your natural choice for transparency

Superior sensitivity characteristics, extremely linear frequency responses and a low noise floor make our omnis the natural first choice for the vast majority of miking applications. The classic 4006 omni is without doubt the most popular mic in our range and has rightly earned the status of being a worldwide studio standard.

This popular omni has gained its reputation through the total transparency it shows in both the near field and in the diffuse field. It picks up incredible detail and depth of sound. The definition of its hi-frequency characteristics across a wide range of instruments is impressive and will ensure that the 4006 omni becomes a foundation of your recording work.

With the wide selection of acoustic modification accessories - pressure equalizers, nose cones and different protection grids - the 4006 will be the most versatile mic in your collection. All in all the 4006 can be changed into 7 different microphone versions acoustically.

Stability and predictability

The highest quality of raw materials and production methods ensure total reliability - imperative in unrepeatable performance situations. The impressively wide dynamic range also means that even at high SPLs you do not need to worry about clipping or distortion from the microphones. Capsules are rigorously tested to ensure extreme stability in all kinds of environments and deliver long predictability.

Invest in purity and versatility

The 4003 microphone is acoustically identical with the 4006, but is a hi-voltage alternative, powered by DPA's own 130V 2 channel Microphone Amplifier, HMA4000. The hi-voltage system enables the 4003 to handle approx. 10dB higher SPL than the 4006, capturing the purest of sounds and details in faithful reproduction. This additional headroom, together with the excellent phase, transient and distortion performance offered by the 130V powering system, offers a true investment in versatility and puts the 4003 omni in the top league of studio quality microphones.



Courtesy of Jesper Nordenström/Granny Studio

Specifications 4006 4003

Directional characteristics:

Omnidirectional

Cartridge type: 16mm (0.63 in) pre-polarised condenser

Power supply: 4003: HMA4000

4006: Phantom P48

Frequency range: 4003: On-axis: 10Hz - 20kHz ± 2 dB

4006: On-axis: 20Hz - 20kHz ± 2 dB up to 124dB SPL peak

Phase response: Phase matching between any two microphones: $\pm 10^\circ$

Sensitivity (at 250Hz):

4003: Nominally 40mV/Pa ± 2 dB;

-27dB re. 1V/Pa ± 2 dB

4006: Nominally 10mV/Pa ± 2 dB;

-40dB re. 1V/Pa ± 2 dB

Equivalent noise level A-weighted:

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

Max SPL: 4003: 154dB SPL peak (f < 4kHz)

4003: 151dB SPL peak (f < 14kHz) with PCC4000: 141dB SPL peak

4006: 143dB SPL peak (f > 200Hz)

Total Harmonic Distortion:

129dB SPL peak (< 0.5% THD)

135dB SPL peak (< 1% THD)

Output impedance: < 75 Ohm

Cable drive capability:

4003: With HMA4000:

Up to 300m (984ft)

4003: With PCC4000: up to 100m (328ft)

4006: Up to 300m (984ft)

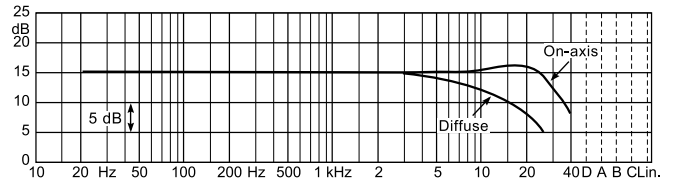
Microphone Amplifier for 4003

HMA4000 Hi-Voltage Microphone Amplifier,
2 channel

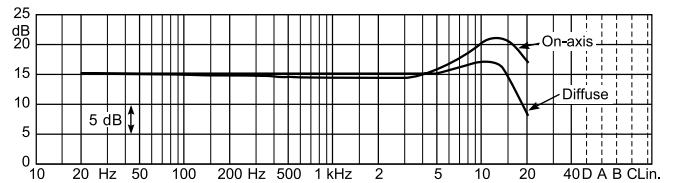
Accessories included

UA0639 Microphone Clip
DD0251 Near Field Grid, Silver
DD0297 Diffuse Field Grid, Black
UA0638 Windscreen for $\varnothing 16$ mm (0.63in)
Microphone

Frequency responses

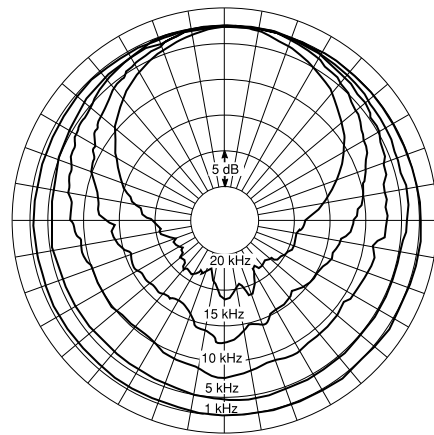


On-axis and diffuse-field responses of Types 4003 & 4006 with the Near Field Grid DD0251 fitted.



On-axis and diffuse-field responses of Types 4003 & 4006 with the Diffuse Field Grid DD0297 fitted.

Polar pattern



Directional characteristics of Types 4003 & 4006 with Near Field Grid DD0251 fitted.

Omni Stereo Kits

3530-A: A-B Stereo Kit, P48

3529-A: A-B Stereo Kit, 130V



3530-A



3529-A

Your portable solution for lifelike ambience

From acoustic soloist to full orchestra, these A-B Stereo Kits are the ultimate portable solution for making sharply focused, realistically ambient stereo recordings.

Each kit consists of a pair of carefully matched microphones, the complete selection of acoustic modification accessories, windscreens and a compact stereo boom for floor or ceiling mounting. The 3529-A uses the DPA preamp included. This allows a completely transformerless signal path and high voltage powering. Both sets are delivered in an attractively fitted Samsonite® carrying case.

Meticulously matched microphone twins

To provide accurate stereo cues it is essential that the mics are accurately matched with respect to their overall sensitivity, individual frequency response and phase response.

The low-noise, 16mm (0.63in) diameter omnidirectional microphone pairs in our A-B Stereo Kits are hand selected and meticulously matched to provide the best possible results. Each pair is guaranteed to match with sensitivities within 1dB, frequency responses within 1 dB from 20Hz to 20kHz, and phase responses within 10° from 50Hz to 20kHz.

Time-saving, easily repeatable positioning

The precision-crafted A-B Stereo Boom UA0836 is specifically designed for making precise stereo recordings. It can be mounted on a stand or suspended from wires for more permanent set-ups. It has centimetre graduations on the boom and angle graduations on the microphone holders for accurate and repeatable positioning.

3530-A 3529-A Kits include

2 x 4006	Omnidirectional Microphone, P48 matched (3530-A) or
2 x 4003	Omnidirectional Microphone, 130V matched (3529-A)
UA0836	Stereo Boom with Holders
2 x DD0251	Near Field Grid, Silver
2 x DD0297	Diffuse Field Grid, Black
2 x UA0777	Nose Cone
2 x UA0638	Windscreen for Ø16mm (0.63in) Microphone
2 x L110C	Acoustic Pressure Equaliser, 110mm (4.33in) Cylinder
2 x L30B	Acoustic Pressure Equaliser, 30 mm (1.18in) Ball
2 x L40B	Acoustic Pressure Equaliser, 40mm (1.57in) Ball
2 x L50B	Acoustic Pressure Equaliser, 50mm (1.97in) Ball
2 x DAO0130	130V Cable, 5m (16.4ft) (Type HMA4000) (3529-A)
HMA4000	Hi-Voltage Microphone Amplifier, 2 channel (3529-A)