

d:fine™



FIOB00-2, d:fine™ Dual-ear Omnidirectional Headset Microphone

Order#: FIO

- Pristine audio quality
- Dual-ear mounting for active situations
- Minimal visual impact
- Adapts to all pro wireless systems

The DPA d:fine™ headset microphone has the leading position when it comes to headworn microphones by combining absolute pristine audio quality with unique and simple mechanical solutions along side an extensive accessory line.

d:fine has been ergonomically designed to fit easily and seamlessly. It will adjust to fit any ear size and head shape while mounting securely and hardly visible on both ears. The dual-ear mount is dedicated for more active situations and will be safe in even the most rigorous and energetic performance applications. Just by rotating the boom and the earhooks, the microphone can be moved from left to right ear, or into the optimum position.

The d:fine omni is sensitive to sound from all directions making the positioning of the headset less critical and can be done by untrained personnel. It is truly a plug-and-play solution for any situation. The microphone boom is available in two lengths, the shorter one to keep out of sight and for handling extreme loud voices.

Staying true to the DPA legacy, the d:fine offers accurate, natural voice intelligibility along with its very high SPL capabilities one can both speak and sing with no hint of distortion. This is where DPA d:fine is head and shoulders above its competition.

The omni microphone is generally not sensitive to wind, breathing or handling noise. Nevertheless, intensive protection against pop/wind noise is integrated in the microphone design and windscreens are included. Also included is a capsule protection cap, a cable clip which anchors the cable to your clothing and a color coded cable clip offering easy recognition of a specific headset among many.

A service connector splits the cable from the microphone boom and allows for quick exchange of cable lengths/colors/connectors and is valuable for servicing if a cable is damaged.

Available in black, beige, and brown, the DPA d:fine is delivered in a neat, professional roadworthy box with room for accessories like transmitters, batteries and more.

The DPA accessory line includes windscreens, power supplies and adapters or cables with fixed connectors (MicroDot, 3-pin Lemo, TA4F mini XLR, Mini-jack).

What's in the box  
Microphone (boom, ear-hook, cable)  
Cable clip which anchors the cable to your clothing  
Make-up cover/ capsule protection cap  
Five identification rings and one make-up cover (DUA0585)  
Three windscreens (DUA0531)

Variants

d:fine™ is also available in these versions:

- omnidirectional, single-ear
- omnidirectional, short boom
- directional version

For more information please visit:

[www.dpamicrophones.com](http://www.dpamicrophones.com)

## FIOB00-2, d:fine™ Dual-ear Omnidirectional Headset Microphone

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### Directional characteristics:

Omnidirectional

### Principle of operation:

Pressure

### Cartridge type:

Pre-polarized condenser

### Frequency range:

20 Hz - 20 kHz

### Frequency range, ± 3 dB:

20 Hz - 20 kHz with 3 dB soft boost at 8 - 15 kHz

### Sensitivity, nominal, ± 3 dB at 1 kHz:

6 mV/Pa; -44 dB re. 1 V/Pa

### Equivalent noise level, A-weighted:

Typ. 26 dB(A) re. 20 µPa (max. 28 dB(A))

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

Typ. 38 dB (max. 40 dB)

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

Typ. 68 dB(A)

### Total Harmonic Distortion (THD):

<1 % up to 123 dB SPL peak; <1 % up to 120 dB SPL RMS sine

### Dynamic range:

Typ. 97 dB

### Max. SPL, peak before clipping:

144 dB

### Output impedance:

From MicroDot: 30 - 40 ohm. From DAD6001-BC: 100 ohm.

### Cable drive capability:

Up to 300 m (984 ft) with DAD6001-BC XLR adapter

### Output balance principle:

Signal balanced with DAD6001-BC XLR adapter

### Common Mode Rejection Ratio (CMRR):

> 60 dB from 50 Hz to 15 kHz with DAD6001-BC XLR adapter

### Power supply (for full performance):

Min. 5 V to max. 50 V through DPA adapter for wireless systems. 48 V phantom power ± 4 V with DAD6001-BC XLR adapter.

### Current consumption:

Typ. 1.5 mA (microphone). 3.5 mA with DAD6001-BC XLR adapter.

### Connector:

MicroDot

### Color:

Black, beige, brown, lime

### Weight:

Microphone boom: 0.8 g (0.03 oz). Earhook: 1.1 g (0.04 oz). Cable: 6.6 g (0.23 oz). Total: 8.5 g (0.30 oz).

### Microphone head size (h x w x d):

9.5 x 5.3 x 2.9 mm (0.37 x 0.21 x 0.11 in)

### Capsule diameter:

5.4 mm (0.2 in)

### Mic boom length:

110 mm (4.3 in)

### Cable length:

1.3 m (4.3 ft)

### Cable color:

Black, beige, brown

### Cable diameter:

1.6 mm (0.06 in)

### Polarity:

+V at MicroDot pin for positive sound pressure (and pin 2 on DAD6001-BC XLR adapter)

### Electro Magnetic Compatibility (EMC):

Fully compatible

### Temperature range:

-40 °C to 45 °C (-40 °F to 113 °F)

### Relative Humidity (RH):

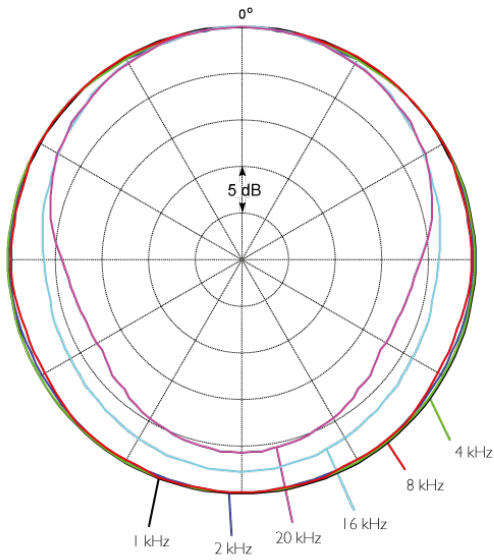
Up to 90%

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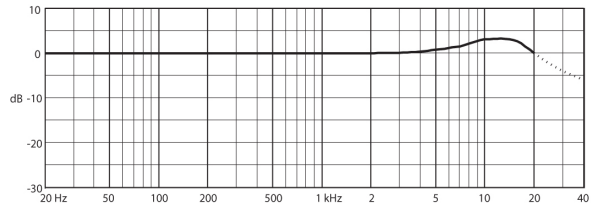
## Diagrams

### FIOB00-2, d:fine™ Dual-ear Omnidirectional Headset Microphone

Directional characteristics of DPA d:fine omni microphone



Frequency response of the omnidirectional DPA d:fine headset microphone



Directional characteristics of DPA d:fine omni microphone



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