

d:fine™



FIDB00-2, d:fine™ Dual-ear Directional Headset Microphone

Watch YouTube video: tips & tricks on how to work with the d:fine™

Order#: FID

- Pristine audio quality
- Dual-ear mounting for active situations
- Rejects background noise
- Adapts to all pro wireless systems

The DPA d:fine™ headset 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.

The 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 directional rejects side and background noise while creating higher separation from nearby sound sources which improves the gain-to-feedback ratio and gives more channel control. Yet still, natural voice intelligibility is preserved along with its very high SPL capabilities one can both speak and sing with no hint of distortion. This is where the DPA d:fine is head and shoulders above its competition.

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 broken cables.

Available in black, beige, and brown, the DPA d:fine is delivered in a neat, professional roadworthy box with extra 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).

Whats in the box
Microphone (boom, ear-hook, cable)
Cable clip which anchors the cable to your clothing
Make-up and moisture filter (DUA0523) pre-mounted on the mic
Five identification rings and one make-up cover (DUA0585)
Three windscreens (DUA0531)

Variants

d:fine is also available in these versions:

- directional, single-ear
- omnidirectional

For more information please visit:
www.dpamicrophones.com

FIDB00-2, d:fine™ Dual-ear Directional Headset Microphone

Directional characteristics:

Cardioid

Principle of operation:

Pressure gradient

Cartridge type:

Pre-polarized condenser

Frequency range:

20 Hz - 20 kHz

Frequency range, ± 2 dB, Near field 2-3 cm (0.8-1.2 in):

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

Sensitivity, nominal, ± 3 dB at 1 kHz:

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

Equivalent noise level, A-weighted:

Typ. 28 dB(A) re. 20 μ Pa (max. 30 dB(A))

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

Typ. 40 dB (max. 42 dB)

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

Typ. 66 dB(A)

Total Harmonic Distortion (THD):

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

Dynamic range:

Typ. 95 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

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:

120 mm (4.7 in)

Cable length:

1.3 m (4.3 ft)

Cable color:

Black or beige

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)

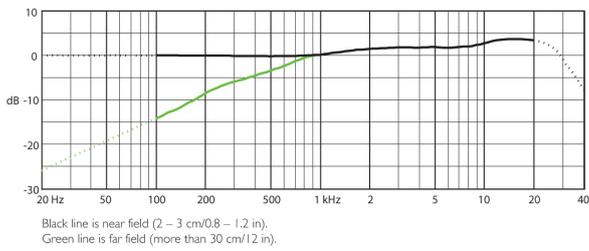
Relative Humidity (RH):

Up to 90%

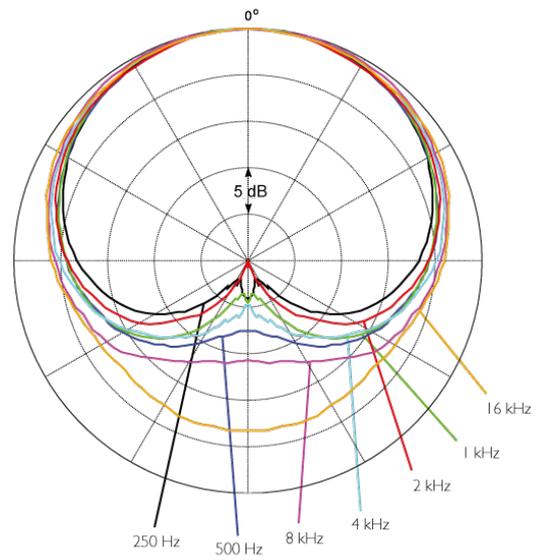
Diagrams

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Frequency response of the directional DPA d:fine headset microphone



Directional characteristics of DPA d:fine directional microphone



Directional characteristics of DPA d:fine directional microphone



Head Office
DPA Microphones A/S
Gydevang 42- 44
DK-3450 Allerød
Denmark
Tel: +45 4814 2828
Fax: +45 4814 2700
info@dpamicrophones.com
www.dpamicrophones.com

US Sales Office
DPA Microphones, Inc.
1500 Kansas Avenue, Unit 3A
Longmont, CO 80501
USA
Tel: +1 303-485-1025
Fax: +1 303-485-6470
info-usa@dpamicrophones.com
www.dpamicrophones.com