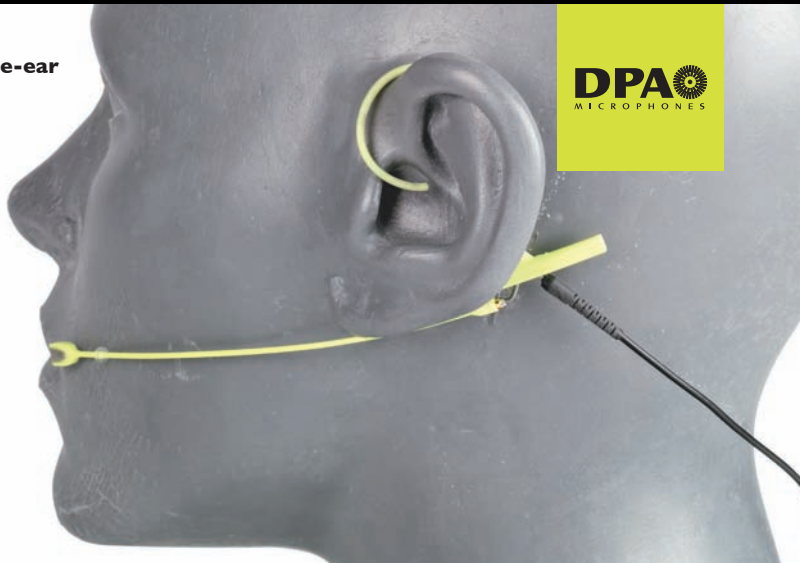
d:fine™

User's Manual

DPA d:fine™ Headset microphone, single-ear



www.dpamicrophones.com

Omnidirectional characteristics

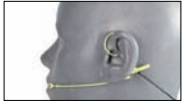
- The microphone is sensitive to sound from all directions.
- The sound remains more or less the same regardless of the distance between the sound source and the microphone. Good choice for untrained personnel.
- The positioning of microphones with omnidirectional characteristics is less critical than with directional.
- An omnidirectional microphone is generally not very sensitive to wind, breathing and handling noises.

Directional characteristics

- Rejects background noise and creates higher separation.
- The microphone is most sensitive to sound on the side of the chevron.
- The positioning of microphones with directional characteristics is essential, as the low frequency level will change according to the distance to the mouth. Choose a distance which yields the desired amount of bass.
- Care should be taken to protect against wind and pop noise.

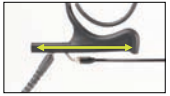
The directional characteristics of the microphone is indicated on the microphone head with ◎ for omnidirectional and ⋗ for directional. This marking should always point towards the mouth.

How to mount DPA d:fine™ Headset microphone



Open the spring hook lightly, first place the slide behind your earlobe and let go of the spring hook over your ear.

How to adjust microphone boom & cable



Position the microphone properly by pulling or pushing the boom along the slide.

Switch between left and right ear wearing style simply by rotating the microphone boom. Hold on to the earhook while gently turning the boom.

Adjust the microphone boom to follow the shape of your face by gently bending the soft steel on the cable hanger.

Adjust the angle of the cable run, also by gently bending the soft steel (see arrows). Position the cable as shown on the picture for securing the position of the microphone.

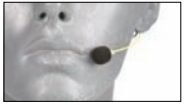
Service point for exchange of cables or booms

The DPA d:fine™ Headset microphone offers exchange of cables or microphone booms. Simply locate the service access point, pull back the small protection cap and gently pull the boom away from the cable hanger.

Protection grid

A protection grid is mounted over the microphone head. If clogged with dirt or make-up, gently remove it and clean it with water. Always leave the protection grid on the microphone, as it protects the inner grid and offers protection against wind and breathing noise. The protection grid is replaceable.

Windscreens



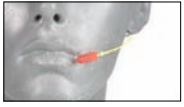
The enclosed windscreens offer additional protection against wind and pop noise. Gently draw the windscreen over the microphone head. For even better protection, bigger windscreens are available.

Accessories (see more at www.dpamicrophones.com)
Grids and windscreens
Cables and adapters
Microphone booms and earhooks

Sweat stop

DPA d:fine™ Headset microphone is equipped with a transparent sweat stop around the microphone boom to prevent sweat running along the microphone boom to the microphone head.

Protection cap



DPA d:fine™ Headset microphone comes with a red plastic cap which serves to protect the microphone head when putting on make-up, hairspray and more. Remove the cap before use.

Color codes and cable steer

DPA d:fine™ Headset microphone comes with a number of cable steer clips in different colours. Mounted on the cable relief, this clip allows for quick recognition of a specific Headset microphone. Also, cables running from in-ear devices can be fixed in the clip to join the cable runs.

Clothing clip

The supplied clothing clip allows you to attach the cable to your clothes to relieve the cable draw to the Headset microphone.

Maintenance

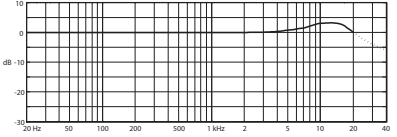
DPA d:fine™ Headset microphone is resistant to high levels of humidity. However, care must be taken to keep the Headset microphone away from exposure to water and cleaning fluids, and to keep the microphone head dry at all times. Do not use spray or fluid containing chemicals that could remove static electricity on or close to the microphone. This could cause permanent damage.

Cable maintenance

Use organic oil (e.g. olive oil) or lukewarm distilled water to remove residue from tape, glue, or makeup on the cable. Do not bend the cable or rub it harshly, it may stress the inner cores of the cable and cause them to break over time.

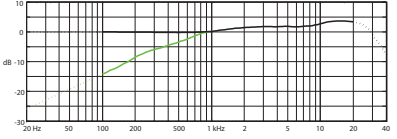
Frequency response

d:fine™ Omni Headset Microphone



Frequency response

d:fine™ Directional Headset Microphone



Black line is near field (2 – 3 cm/0.8 – 1.2 in).
Green line is far field (more than 30 cm/12 in).

w w w . d p a m i c r o p h o n e s . c o m / d f i n e

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:fine™ Headset microphone is covered by a two-year limited warranty.

CE marking
This product conforms with all relevant directives approved by the European Commission.

Specifications
d:fine™ Omni Headset Microphone

Directional characteristics
Omnidirectional
Principle of operation
Pressure
Frequency range
20 Hz - 20 kHz
Frequency range, +/- 2 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))
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
Power supply (for full performance)
Min. 5 V - 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 (microphone, cable and earhook)
Black or beige
Weight
Microphone boom: 0.8 g (0.03 oz)
Earhook: 1.1 g (0.04 oz)
Cabel: 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)
Cable length
1.3 m (4.3 ft)
Cable diameter
1.6 mm (0.06 in)
Temperature range
-40 °C to 45 °C (-40 °F to 113 °F)
Relative Humidity (RH)
Up to 90%

Specifications
d:fine™ Directional Headset Microphone

Directional characteristics
Cardioid
Principle of operation
Pressure gradient
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 µPa (max. 30 dB(A))
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
Power supply (for full performance)
Min. 5 V - max. 50 V through DPA adapter for wireless systems. 48 V phantom power +/- 4 V with DAD6001-BC XLR adapter

Current consumption
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3.5 mA with DAD6001-BC XLR adapter
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