



4062 Miniature Omnidirectional Microphone



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TABLE OF CONTENTS

Description	1
What's in the box	2
Application guide	3
Specifications	4
Accessories	5
Service & repair	6
Learn more	7

Description

The 4062 Miniature Omnidirectional Microphone, Extreme SPL is similar to the others in the 4060 Omnidirectional Microphone Series, but it is sensitivity adjusted to match extremely loud sound pressure levels. With the correct power source, the microphone handles sound pressure levels up to 154 dB before 10% THD occurs, making it ideal for close-miking extremely

loud sound sources. It is often used to mic the engine compartment of cars or directly on the exhaust pipes.

Available in two colors: black and beige.

Features

- Exceptional audio quality
- Uniform, consistent sound between DPA mics
- Extremely rugged and reliable
- Small and unobtrusive; perfect for flexible and easy concealment
- Large selection of clips, windscreens, grids and other accessories
- Modular adapter system fits most professional wireless systems

CORE by DPA

All the 4060 Series Omnidirectional Miniature Mics come with CORE by DPA, a powerful technology at the heart of our miniature microphones. CORE minimizes distortion across the entire dynamic range, increasing audio clarity and openness.

>> About CORE

What's in the box

- 1 4062 Miniature Omnidirectional Microphone, Extreme SPL
- 1 (attached) Soft Boost Grid for 4060 Series (DUA6001, DUA6003, DUA6005, DUA6017)
- 1 High Boost Grid for 4060 Series (DUA6002, DUA6004, DUA6006, DUA6018)

Application guide

Placement guide

Sound (in this case voice) varies depending on the placement of the microphone on the body.

>> The benefits and consequences of different placements

Assembly guide

The microphone comes with the Soft-Boost Grid attached. Pull gently to remove. To reattach (or attach the High-Boost Grid), press the grid into place on the microphone housing.

To attach an adapter to the MicroDot connector, screw on gently yet firmly until you hear a click.

Cleaning guide

The cable and protection grid are the only parts that may be cleaned. Do not use any kind of cleaning fluid other than demineralized water. Avoid all kinds of spray or fluids containing chemical components to remove static electricity on or close to the microphone as this could cause damage to the electret layer. When mounting a 4060 Series Miniature Microphone directly on or close to the skin of a performer, care should be taken to avoid sweat from running into the microphone. If the microphone has been exposed to sweat, it must be rinsed out in demineralized water and left to dry out to recover its original specifications. Drying out the microphone between exposures to humidity will also help to extend its lifetime. If the microphone fills up with water it will not be damaged but can possibly turn deaf while the water is captured inside, behind the protection grid. Remove the water by shaking the microphone or drying it with a piece of lint free cloth.

Cleaning the microphone grid

During use in environments where the microphone is exposed to makeup or dusty materials, the grid may get clogged up. Make sure the grid is dry before re-mounting it on the mic housing.

Cleaning the microphone cable

Residue from tape, glue or makeup on the cable must be removed after use. Leaving these substances on the cable over longer periods of time may etch into the cable jacket and will make the cable more susceptible to breaks. The cable can easily be cleaned using organic oil (e.g. olive oil) or lukewarm, demineralized water. Do not bend the cable or rub it harshly since this may stress the inner cores of the cable and cause them to break over time.

>> Proper mic hygiene

Specifications

Directional pattern	Omnidirectional
Principle of operation	Pressure
Cartridge type	Pre-polarized condenser
Frequency response	20 Hz - 20 kHz
Effective frequency range ± 2 dB	Soft boost grid: 20 Hz - 20 kHz, 3 dB soft boost at 8 - 20 kHz. High boost grid: 20 Hz - 20 kHz, 10 dB boost at 12 kHz
Sensitivity, nominal, ± 3 dB at 1 kHz	1 mV/Pa; -60 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 33 dB(A) re. 20 μ Pa (max. 37 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 45 dB (max. 49 dB)
Distortion, THD < 1% - Legacy	120 dB SPL RMS, 123 dB SPL peak
Distortion, THD < 1% - CORE	136 dB SPL RMS, 139 dB SPL peak
Dynamic range - Legacy	Typ. 90 dB

Dynamic range - CORE	Typ. 106 dB
Max. SPL, THD 10%	154 dB SPL peak
Rated output impedance	30 - 40 Ω
Cable drive capability	Up to 300 m (984 ft) with DAD6001-BC XLR Adapter
Power supply (for full performance)	For wireless systems: Min. 5 V - max. 10 V through DPA adapter With DAD6001-BC: P48 (Phantom Power). Will work from 12 V
Current consumption	Typ. 1.5 mA (microphone). 3.5 mA with DAD6001-BC XLR Adapter
Connector	MicroDot, TA4F Mini-XLR, 3-pin LEMO, Mini-Jack
Color	Black or beige
Weight	7.5 g (0.26 oz) incl. Cable and MicroDot connector
Microphone diameter	5.4 mm (0.21 in)
Microphone length	12.7 mm (0.5 in)
Cable length	1.8 m (5.9 ft)
Polarity	Positively increasing sound pressure produces positive going voltage on MicroDot pin
Temperature range	-40°C to 45°C (-40°F to 113°F)
Relative humidity (RH)	Up to 90%

Typical response of a 4062

Typical directional characteristics of a 4062

Accessories

Included

- 1 Soft Boost Grid for 4060 Series (DUA6001, DUA6003, DUA6005, DUA6017)
- 1 High Boost Grid for 4060 Series (DUA6002, DUA6004, DUA6006, DUA6018)

Optional

- 2-Way Dual Clip for 4060 Series Lavalier Microphone (SCM0032-B)

- 4-Way Clip for Lavalier Microphone (SCM0013-B)
- Digital Audio Interface (MMA-A)
- Concealer for Lavalier Microphone (DMM0021, DMM0521)
- Foam Windscreen for Miniature Microphones (DUA0560, DUA0566, DUA0567, DUA0568)
- Makeup Cover for Lavalier Microphone (DUA0590)
- Foam Windscreen for Lavalier Microphone, Color Mix (DUA0570)
- Lavalier Microphone Holder for String Instrument (MHS6005)
- Gooseneck Mount for 4060 Series Lavalier Microphone (GM1600)
- Accessory Kit for 4060 Series Lavalier Microphone (DAK4060)

Adapters & connectors

DPA's adapters for wireless systems give you flexible, simple and affordable possibilities. You are no longer bound to only one wireless system.

>> Our range of adapters

In addition, DPA has fixed connections available, like LEMO 3 pin, TA4F miniXLR and MiniJack. Please visit our product configurator to learn more:

>> 4060 Series Miniature Omni Mic configurator

Service & repair

Products from DPA Microphones are extremely durable and stable so there should not be any significant change in the specifications with time and use. If, however, you are not totally satisfied with the characteristics exhibited by these products, please contact your nearest DPA Microphones representative for further details of service and the repair facilities that are available.

Warranty

This product is covered by a two-year limited warranty on both mechanical functionality and documented specifications as long as the items are not mistreated, abused or modified in any way.

In case of a warranty claim, your invoice is your warranty registration.

>> Additional warranty information

CE marking

The CE mark guarantees that the product conforms to relevant directives set forth by the European Commission.

EMC directive: 2004/108/EEC

Low voltage directive: 2006/95/EC

Environmental Policy

DPA Microphones A/S complies fully with Directive 2012/19/EC on the Waste from Electrical and Electronic Equipment (WEEE). This product should not be thrown in the garbage bin when obsolete. Instead, return it to your local DPA representative (or DPA Microphones A/S directly) who will dispose of the product in accordance with the current environmental standards.

RoHS directive: 2002/95/EC

WEEE directive: 2002/96/EC

>> Our environmental policy

Learn more

>> Mic University - Lavalier Microphones

