4060 Omni Boundary Layer Mic

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Description

With its elegant look and performance, the 4060 Omni Boundary Layer Microphone is the perfect microphone for use in boardrooms, conference facilities, courtrooms, teleconferencing rooms and other places for audio reinforcement or recording. This product is designed to work optimally when placed on a tabletop, but it also performs well on any other hard, flat surface.

This microphone combines ease of use and placement with high sensitivity and a wide dynamic range.

Features

- Ideal for use in boardrooms and conference facilities
- Sleek low profile Scandinavian Design
- Optimized to boost speech intelligibility
- Modular adapter system fits most professional wireless systems

CORE by DPA

The 4060 Omni Boundary Layer Microphone uses 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 4060 Omni Boundary Layer Microphone
- 1 DAD6001 Adapter for MicroDot to 3-pin XLR with Belt Clip

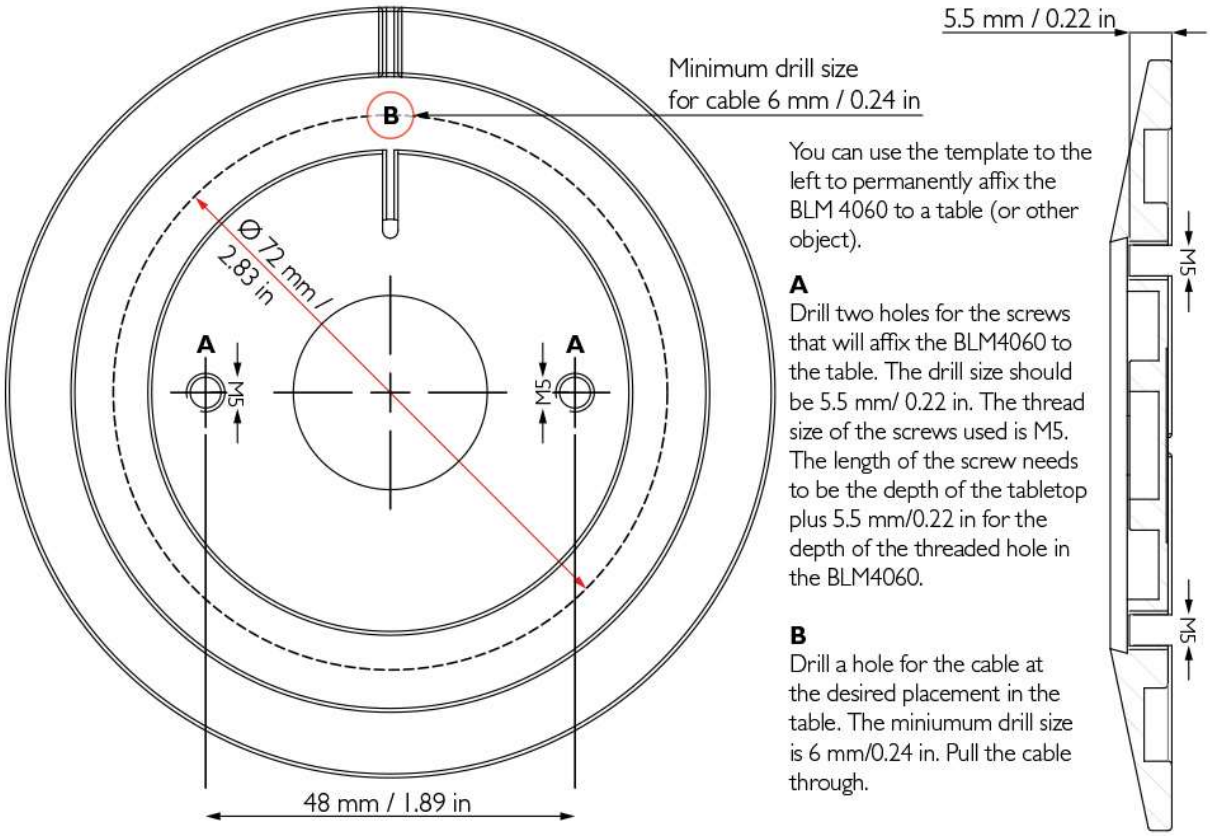
Application guide

Placement guide

The 4060 Omni Boundary Layer Microphone is a transducer that should always be placed on a surface that reflects sound. By doing this, you will benefit from the special characteristics of the sound field found here: a 6 dB gain of direct sound and only 3 dB gain of diffuse sound. Hence, the sound captured has both a greater clarity and intelligibility compared to sound captured above the surface.

The microphone can be placed on any surface that reflects sound, like tables, speaker podiums, etc. Even if a table is covered with cloth, the product will work due to the shape and size of the disc. The microphone has been designed to ensure high-frequency clarity and speech intelligibility under most conditions. The low-frequency response is, to some extent, dependent on the area of the boundary. However, for speech pick up, even small areas like podiums are adequate. The microphone can be placed in essentially any position on the surface, even close to the edge. However, try to avoid placement that may receive reflections from vertical faces as this may cause coloration of the sound (comb-filtering). For tables longer than 6 m (20 ft), it is recommended to use more than one unit.

Assembly guide



Cleaning guide

A dry cloth can be used to clean the surface of the microphone. Do not use any cleaning agents to clean the unit as fluids can damage the microphone.

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.

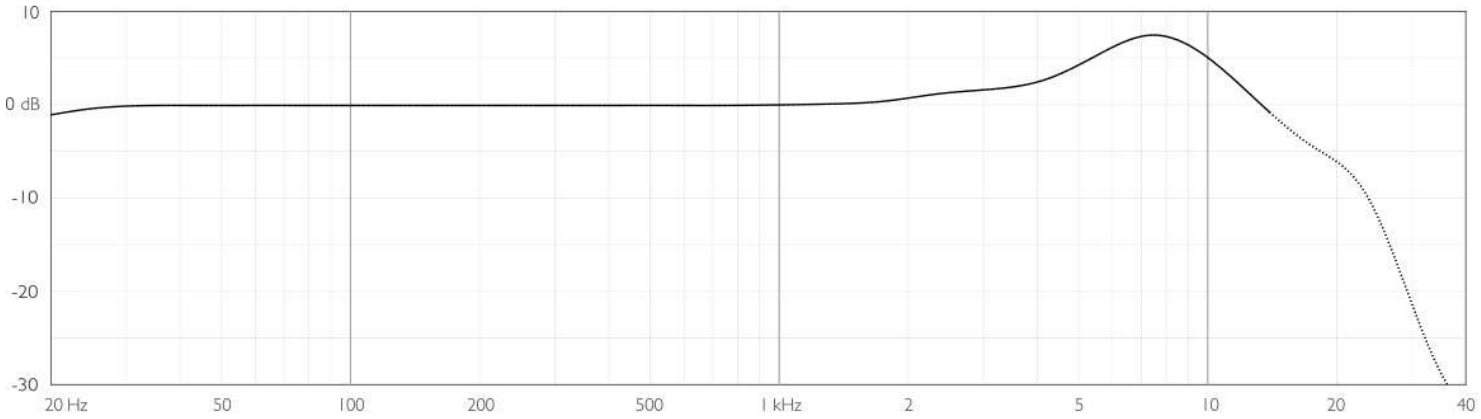
>> Proper mic hygiene

Specifications

Directional pattern	Omnidirectional, hemisphere
Principle of operation	Pressure
Cartridge type	Pre-polarized condenser
Frequency response	20 Hz - 20 kHz

Effective frequency range ±2 dB	20 Hz - 14 kHz, with 7 dB soft boost at 8 kHz
Sensitivity, nominal, ±3 dB at 1 kHz	20 mV/Pa; -34 dB re. 1 V/Pa
Equivalent noise level, A-weighted	Typ. 23 dB(A) re. 20 µPa (max. 26 dB(A))
Equivalent noise level, ITU-R BS.468-4	Typ. 35 dB (max. 38 dB)
Distortion, THD < 1%	126 dB SPL RMS, 129 dB SPL peak
Dynamic range	Typ. 106 dB
Max. SPL, THD 10%	134 dB SPL peak
Rated output impedance	From MicroDot: 30 - 40 Ω. From DAD6001-BC: 100 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 or XLR 3-pin
Color	Black rubber disc mounted in stainless steel base
Weight	240 g (8.5 oz) excl. Cable
Microphone diameter	100 mm (4 in)
Microphone length	100 mm (4 in)
Cable length	3 m (10 ft)
Cable color	Black
Cable diameter	1.6 mm (0.06 in)
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 on and off-axis response of a BLM4060

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 – Boundary Layer Mics