



With its elegant look and excellent performance, the BLM4060 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 microphone is ideal for voice pick up.

The BLM4060 is designed to work optimally when placed on a table top, 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.

## Design

The microphone element is a pre-polarized omnidirectional miniature condenser microphone with a  $5.4\,\mathrm{mm}$  ( $0.2\,\mathrm{in}$ ) diaphragm, specially designed for maximum performance. The microphone body consists of a center rubber disc that mounts the microphone element in an elegant stainless steel base.

The 3 m (10 ft) cable provided with this microphone is slim and strong and terminated on both ends with a MicroDot connector.

Considering the microphone's small size, it has an outstanding noise floor of 23 dB(A) re. 20  $\mu$ Pa and an impressive sensitivity of 20 mV/Pa. If powered correctly, the microphone will be able to handle sound pressure levels up to 134 dB SPL before clipping occurs.

A wide range of connection adapters makes it possible to use the BLM4060 both with phantom power and wireless systems.



### How to connect the cable

Take the microphone in one hand and the microphone cable in the other. Hold the microphone in a horizontal position keeping the topside up. The connectors are assembled by leading the male part into its female counterpart.



Female connector on the microphone body.



The MicroDot connector is assembled from the topside of the microphone.

The MicroDot lock cap is turned clockwise and tightened firmly in the female connector.



The cable is connected to the microphone by turning the lock cap clockwise.



Make sure the thread is firmly tightened.

#### How it works

The BLM4060 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.

### How to use it

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 BLM4060 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, dependant 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 BLM4060.





## **Specifications**

**Directional characteristics** 

Omnidirectional, hemisphere

Principle of operation

Pressure

Cartridge type

Pre-polarized condenser

Frequency range, ±2 dB

20 Hz – 14 kHz

(with a 7 dB soft boost at 8 KHz)

Sensitivity, nominal ±3 dB at I kHz

20 mV/Pa; -34 dB re. | 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%

120 dB SPL RMS, 123 dB SPL peak

Dynamic range

Typ. 100 dB

Max. SPL, THD 10%

134 dB

Rated output impedance

From MicroDot: 30 - 40  $\Omega$ 

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

Connector

MicroDot or XLR 3-pin

Color

Black rubber disc mounted in stainless steel base

**Dimensions** 

Diameter: 100 mm (4 in) Height: 12 mm (0.47 in)

Weight: 240 g (8.5 oz) excl. Cable

Cable

Cable length: 3 m (10 ft)

Cable diameter: 1.6 mm (0.06 in)

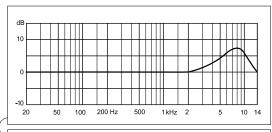
Cable color: Black

**Polarity** 

Positively increasing sound pressure produces positive-going voltage at MicroDot pin (and pin 2 on DAD6001-BC XLR adapter)

Operating temperature range

-40°C to 45°C (-40°F to II3°F)



On-axis frequency response of BLM4060 Boundary Layer Microphone

# **Adapters**

DAD6001 MicroDot to 3-pin XLR plug (included)

# Cables for BLM4060

DAO6015 Cable for BLM4060, 3 m (10 ft) (included)

### **Maintenance**

A dry cloth may be used to clean the surface of the microphone. IMPORTANT: No cleaning agent should ever be used as fluids may damage the microphone.

#### **ENVIRONMENTAL POLICY**

This product is comprised by the Waste (WEEE) directive and 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.



# Service and repair

Products from DPA Microphones are extremely stable and 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, contact your nearest DPA Microphones representative for further details of service and the repair facilities that are available.

Please contact DPA Microphones for your nearest representative:

### Warranty

This product is covered by a two-year limited warranty on both mechanical functionality and documented specifications as long as the item is not mistreated, abused or modified in any way. In case of a warranty claim your invoice is your warranty registration.

# **CE-Marking**

The CE-mark guarantees that the product conforms to relevant Directives approved by the European Commission, specifically the EMC Directive: 2004/108/EU.



Product features and specifications are subject to change without notice.

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DPA Microphones A/S
Gydevang 42-44
DK-3450 Alleroed, Denmark
Tel. +45 4814 2828
Fax. +45 4814 2700
info@dpamicrophones.com
dpamicrophones.com