



DPI-BLM6000

USER'S MANUAL

Boundary Layer Mount

Type **BLM6000**



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The BLM6000 is an accessory that will extend the use of your DPA miniature microphones i.e. DPA 4060, 4061, 4062, and 4063.

By placing a microphone close to a reflective boundary, 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 the diffuse sound. This means that the sound picked up has both greater clarity and intelligibility compared to the sound picked up in "free air".

Mounting the microphone

It is very important to mount the microphone correctly! If not the sound may suffer from colouration.

The smoothest frequency response is achieved with the diaphragm perpendicular to the reflecting boundary. In order to identify the position of the membrane you may



BLM6000, rear view

have to temporarily remove the microphone grid (see picture). When you mount the microphone in the BLM, be sure that the mesh is completely hidden, so there are no openings, as they will affect the sound.

Please note: The microphones must be mounted with the short grid (soft boost grid). The long grid will not fit into the disc.

Using the Boundary Layer Mount

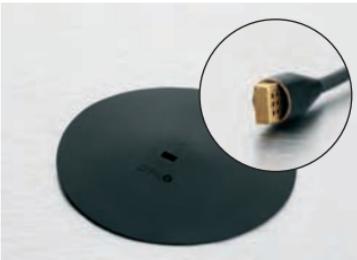
When mounted in the BLM6000 you can put the microphone on all surfaces that reflect sound i.e. tables, lecterns, etc. Even floors, walls and ceilings are very effective as boundaries when the BLM6000 is attached to it.

In general

The pressure zone principle will be more prominent in a larger frequency range, the larger the surface the BLM6000 is placed on. Conversely, you can experiment with a placement close to the edges of a table, to the edge of the stage floor or lectern in order to obtain bass roll off.

If you want to place the disc on a ceiling or a wall, simply use double-sided tape.

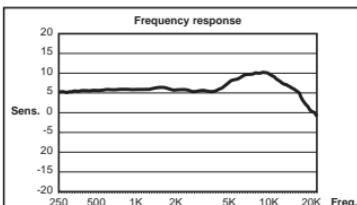
Please find some graphs that illustrate the frequency response of the microphone mounted in the BLM.



Mounting the microphone



BLM6000 on floor



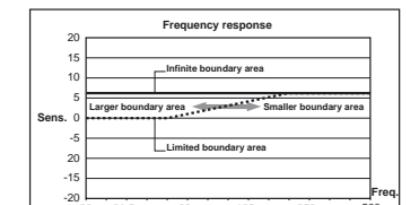
DPA4060 in BLM6000 measured on floor re same microphone measured in free field position



BLM6000 mounted on piano lid



BLM6000 on desk



Typical low frequency response of DPA4060 in BLM6000 in relation to the boundary area

Physical dimensions:
Diameter: 75 mm
Height: 6 mm
Weight (w/o mic): 12 grams

Order numbers:
BLM6000-B, Black
BLM6000-W, White

Note: Tape not included. Take care to select tape that will not damage the surface it is placed on.