

USER'S MANUAL

Miniature Microphone Amplifier

Type MMA6000

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TECHNICAL DESCRIPTION

The MMA6000 is a high quality miniature microphone amplifier and power supply for two DPA miniature microphones.

The MMA6000 is a front-end device that provides two independent identical channels in one rugged box. The gain settings are made individually for each channel.

The miniature microphone amplifier can be operated either by internal 9 V battery or, optionally, by the use of an external 12 to 30 V DC power supply. Battery and power supply unit are not included. A 3-colour LED indicates the power mode:
green (flashing): battery OK;
red (flashing): battery low;
orange (steady light): external power.

The inputs are fitted with MicroDot connectors. These connectors also provide the supply voltage for the microphones. The gain setting is obtained by a 16 position switch providing steps of 2.5 dB in the range from 0 dB to 37.5 dB. Please notice the possibility of counter clockwise switching from 0 dB to 37.5 dB gain.

A low cut switch-in filter (common for both channels) inserts a 12 dB/octave, 100 Hz low cut.

The output is a 3.5 mm stereo Mini-jack connector.

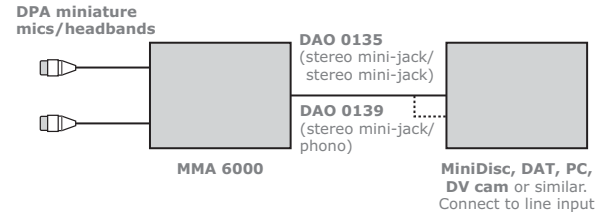
The attached clip makes it ease to place the MMA6000 on a belt, strap or bag pocket.

Warnings:

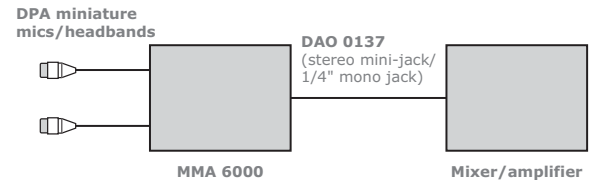
If you want to summarize the two outputs in one cable, only use DAO0137.

The specifications and tolerances listed, as well as performance and stability of the MMA6000, are only guaranteed when using the dedicated cables from DPA Microphones.

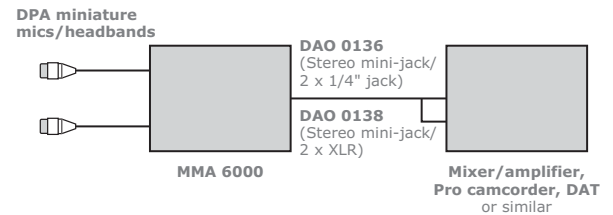
Non-professional recording



2 ch. input/added out

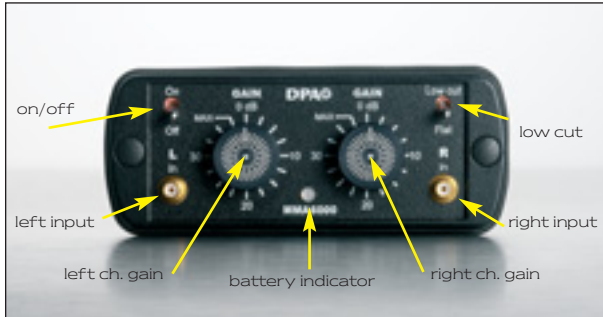


Professional recording

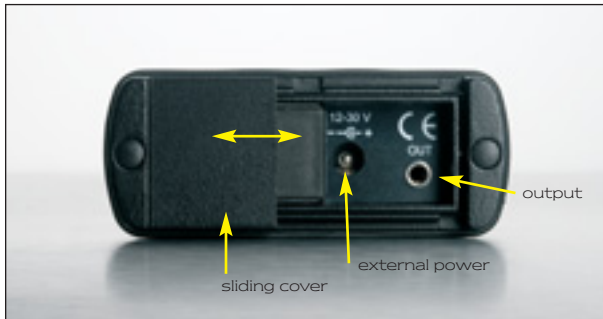


BATTERY CONNECTION

Front view



Rear view



On the rear of the box a sliding cover is protecting the battery compartment. Slide the cover fully to the opposite side and use a small screwdriver or the like to open the lid. Install the battery with the connector oriented against the lid. Whenever the external power is used, the internal battery is by-passed.

Please note that rechargeable batteries can be used with the MMA6000, but with reduced maximum output level. The batteries must be charged outside this unit.



Be aware that the battery is best mounted with the terminals oriented towards the lid. If you don't intend to use the MMA6000 for a longer period, remove the battery to protect the MMA6000 from battery leakage.

SPECIFICATIONS MMA6000

N o. of channels

2

Co n trols:

Po w er On/Off

Low cut

Switchable: Flat or 100 Hz, 12 dB/octave

Gain, stepwise adjustable

0 dB to 37.5 dB in steps of approx: 2.5 dB

Input / output:

Input connectors

2 MicroDots

Input impedance

>3 kilohm

Output connector

3.5 mm Mini-jack, stereo, Tip: Left Ch. Ring: Right Ch.

Output impedance

<50 ohm

Max. output level

+/- 1.5V peak before clipping

Equivalent input noise

At 0 dB gain

<3 μ V (RMS A-weighted)

At 37 dB gain

< 150 μ V (RMS A-weighted)

Frequency range (Flat)

20 Hz – 20 kHz (+1/-1.5 dB),

Cross talk

< -60 dB at 1 kHz

Distortion (THD)

< 0.03%

Microphone power:

Fits all types of DPA miniature microphones and headbands only.

Other:

Battery

9 V type IEC 6 LR 61 /JIS 6AM6. Alkaline or rechargeable types Ni-MH or Ni-Cd.

Battery life time

>24 hours (professional quality Alkaline batteries within temp. range)

External power

12 – 30 volt DC, maximum 50 mA

Connector for external power

2.1 mm DC-connector, Tip: Positive, Sleeve: Negative

Battery indication

Green LED (flashing): Battery OK

Red LED (flashing): Battery low

Orange LED: External Power

Temperature range

-10 °C to +50 °C

Box

Aluminium, black powder finish

Dimensions (l x w x h)

123 x 85 x 35 mm

4.8 x 3.3 x 1.4 in.

W eight (w/o battery)

235 grams (8.30 oz.)

Ac cessor ies Available:

DA 00135 Stereo Mini-jack, 1 m (39 in.)

DA 00136 Stereo Mini-jack - 2 x 1/4 mm Jacks, 5 m (16.4 ft)

DA 00137 Stereo Mini-jack - 1/4 mm Jack, 5 m (16.4 ft)

DA 00138 Stereo Mini-jack - 2 x male XLRs, 5 m (16.4 ft)

DA 00139 Stereo Mini-jack - 2 x phono, 1 m (39 in)

SERVICE & 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.

DPA Microphones has a maximum seven working days in-house service policy, usually ensuring that no more than seven working days will elapse from the day we receive the item for service to the day we are ready to return it to you. Please contact DPA Microphones for your nearest representative on:

TEL: + 45 48 14 28 28

FAX: + 45 48 14 27 00

You can also get in touch with DPA Microphones at:

info@dpamicrophones.com

or visit our website at:

www.dpamicrophones.com

WARRANTY

All products from DPA Microphones are 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.

CE-MARKING

The CE-mark guarantees that the product conforms with relevant Directives approved by the European Commission.

EMC Directive: 89/336/EC, amended by 92/31/EC and 93/68/EC

Low voltage Directive: 73/23/EC, amended by 93/68/EC