

Millenium

HPA IN EAR

Headphone Monitor AMP



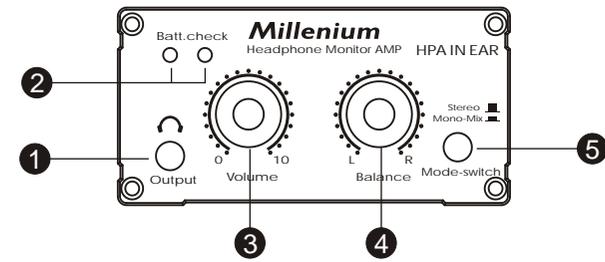
Thanks for choosing the Millenium HPA IN EAR Monitor amplifier. Please read this manual carefully to get the most out of your unit!

Caution:

Do not use this item at too high sound levels, otherwise, it may cause permanent hearing defects. Adjust the volume so that you can hear sufficiently. Ringing in the ears can indicate that the adjusted hearing level is too high. Using headphone systems with good fitting which suppress the ambient noise well.



FRONT PANEL:



Description of the operating elements on the front panel:

1) 3.5mm stereo jack

Connection for the headphones (minimum impedance 16 ohm per channel). Maximum output power 50mW per channel

tip = left signal
ring = right signal
sleeve = ground

2) Battery indicator LEDs

There are two LEDs for controlling the inserted battery or rechargeable battery. After switching on with a newly inserted fresh battery, the green LED lights. With increasing operating time and decreasing battery power (i.e. Voltage > 7.3V) both LEDs (green and red) light up. When only the red LED (battery voltage 6.5V) lights, the battery should be replaced.

3) Volume control

Adjustment of the volume for both output channels.

4) Balance control

In Stereo Mode: Adjustment of the volume balance for the left and right output channels.

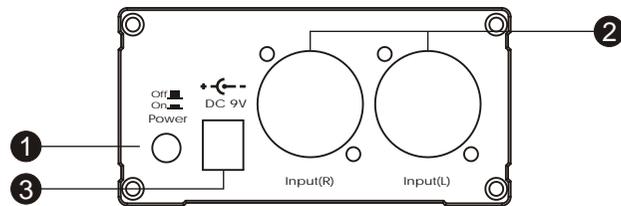
In Mono Mix Mode: Adjustment of the volume level ratio between channels L and R. Then both channels L and R mutually output to both headphones. In middle position, both channel levels are equal; at left stop only channel L, at right stop only channel R transmits signals.

5) Mode Switch

Stereo Mode: The device outputs the signal fed into the left input to the left headphone and the right signal to the right headphone.

Mono-Mix Mode: Channel L and channel R are mixed and output to both headphones. By means of the balance controller the ratio between both channels can be adjusted.

REAR PANEL:



Operating elements at the rear panel:

1) Power switch

Activation of the voltage supply of the device. This switch is installed slightly flushy so that it is protected against switching off by mistake.

2) XLR inputs (L) and (R)

Connection of the input signals coming from a mixing console or the like.

Assignment of the double purpose jack:

1 = ground	S = ground
2 = signal+	T = signal+
3 = signal-	R = signal-

With asymmetric wiring, PIN 3 should be assigned to ground (bridge in the connecting plug).
Maximum input level +5dbm.

3) DC-In socket (lockable)

Connection of a AC/DC power adaptor with 9V DC output (230V mains input), minimum output current 100mA. When a battery or rechargeable battery is inserted in the body pack, it is switched off when plugging in the adaptor. As soon as the plug is withdrawn, the unit works on battery voltage supply again. Poles are (-PIN +RING).

MONO operation of the HPA IN EAR

With mono monitor mixing, the signal is connected to one of the two input channels, the MODE switch is adjusted to mono-mix mode (pressed) and the BALANCE controller is in the middle position. Thus the mono signal is output to both headphones.

Mono-mix operation

This operation mode is the easiest way to create a user-specific monitor mix, an overall mono mix of the band, for example, is supplied to channel L, the signal of the particular musician to channel R. Thus that musician can individually adjust his optimum listening signal by means of the balance controller.

Adjustment of the output level at the source of the signal (i.e. a mixing console)

Adjust the output level at the source of the signal (mixing console at approx. 0dB to 3dB) at the signal peaks. This provides the in-ear device with an adequate input level so that there is sufficient power at the headphones output. In addition, this prevents that high increase of the level such as feedback escalate the headphones level. The input level limits the signal at approx. +5dBm.

Features

1. Two direct symmetric XLR inputs
2. Much better sound than wireless in ear system.
3. Switch-over for stereo to mono-mix mode 2 x 50mW.
4. Controls for volume and mix
5. Sturdy aluminum case, with 3/8" internal threads at the bottom. Suitable for mounting on super stands.
6. Mains connector (lockable) for plugging in an external DC mains adaptor (optional extra)
7. Power supply with 9V block battery.

Technical Data

Dimensions:	170x93x47mm
Net weight:	0.4kg
Input jacks:	2 x combos
Output jack:	3.5mm jack stereo
Frequency response:	30Hz - 20kHz +/-2dB
Min. impedance of the headphones:	16ohms per side
Input Impedence:	15 kohm
Nom. input level symmetric:	0dBV
Max. input level symmetric:	+4dBV
Limit input level symmetric:	+5dB
Max. output power into 20ohms:	50mW per channel
Max. operating current:	40 mA
Power supply:	9V battery
DC input socket:	ext. input power DC 9V (PIN- RING+)

Disposal

Do not dispose of the device at the end of his operating life in your normal domestic waste. This device is subject to the European Guidelines 2002/96/EC.

Have the product disposed of by a professional disposal company or by your communal disposal facility. Observe the currently applicable regulations. In case of doubt contact your disposal facility. Dispose of packaging materials in an environmentally responsible manner.



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