

FISCHER AMPS

MANUAL

HARD-WIRED IN-EAR MONITOR BELT PACK

Dear customer,

You have decided to buy a ***FISCHER AMPS*** product. Thank you for your confidence.

Please read this manual carefully prior to the first use, you will get important information for use and safety of the unit. These safety and operating instructions should be retained for future reference.

Should you have further questions, please do not hesitate to contact *FISCHER AMPS*.

Product Description:

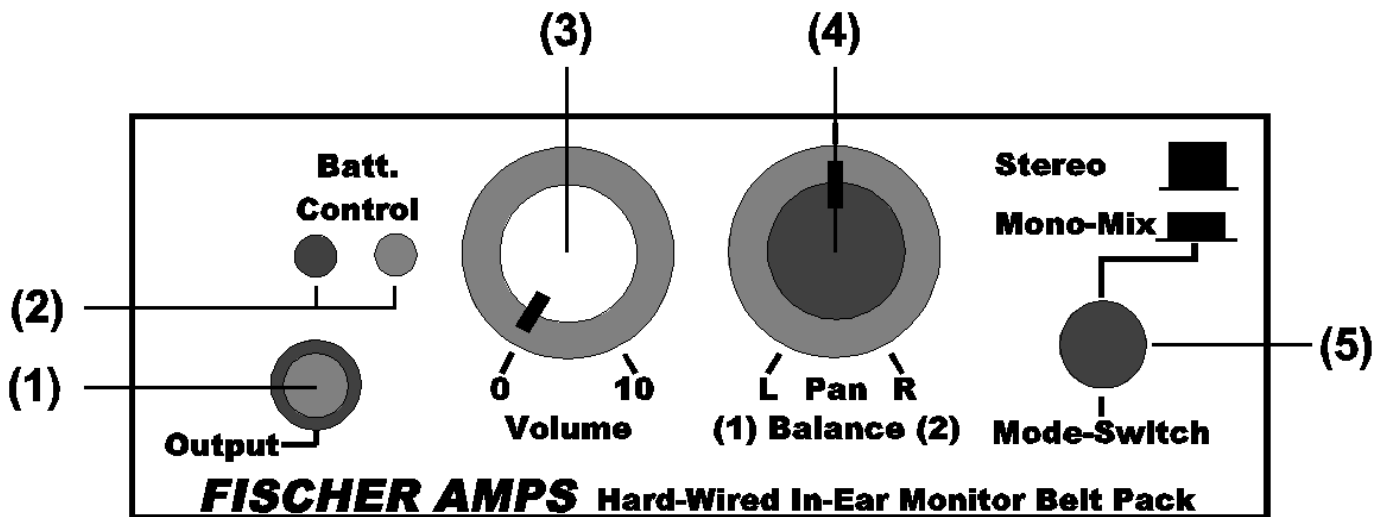
The Hard-Wired In-Ear Monitor Belt Pack made by Fischer Amps has been developed for supplying In-Ear Systems of musicians (drummers, keyboard players, players of wind instruments) who have restricted mobility due to their stationary instrument. For those musicians the use of wireless in-ear systems, which are expensive as everybody knows, is not necessarily required. By using the Hard-Wired In-Ear Monitor Belt Pack, these musicians enjoy the benefits of an in-ear monitoring system.

Basic information on the use of in-ear monitor systems:

Attention:

Using this system at too high sound levels 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. Use headphone systems with good fitting which suppress the ambient noise well. This allows that the required listening volume can be low which is kind to your ears. Normally, standard walkman headphones are suitable for limited use, since they have only very low attenuation of ambient noise.

ACTUATORS FRONT SIDE:



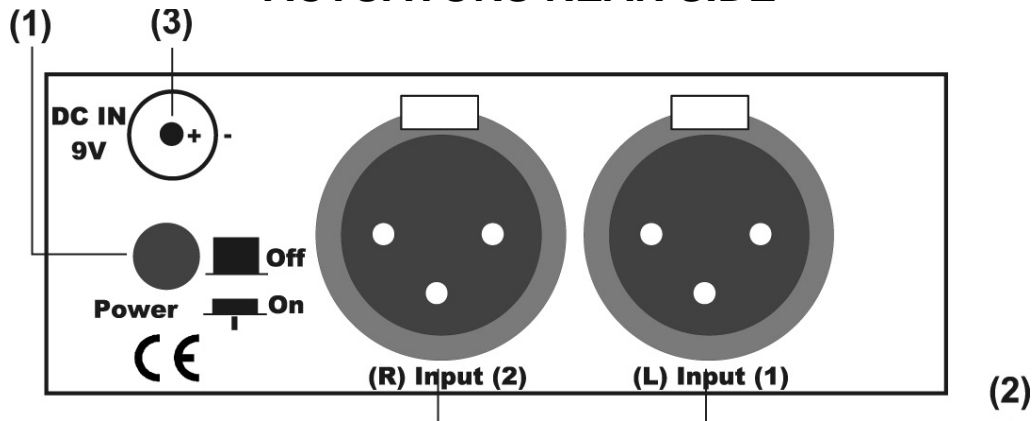
Description of the actuators (front side) :

- (1)
3.5mm Stereo Jack: Connection of the headphone system (minimum impedance 16 ohm per channel), maximum output power 50 mW per channel
tip = left signal
ring = right signal
sleeve = ground
- (2)
Battery Control LEDs: There are 2 LEDs for controlling the inserted battery or rechargeable battery. After switching on with a newly inserted battery, the green LED lights. With increasing operating time and decreasing battery power (voltage > 7.3V) both LEDs (green and red) light. When only the red LED (battery voltage > 6.5V) lights, the battery should be replaced.
- (3)
Volume Control: Adjustment of the volume of the left and right side of headphone.
- (4)
Pan (Balance) Controller:
In Stereo Mode: Adjustment of the balance of volume between the left and the right headphone system

In Mono Mix Mode: Adjustment of the volume level ratio between channel 1 and channel 2. Channels 1 and 2 are output mutually to both headphones. In middle position both channel levels are equal; at left stop only channel 1, at right stop only channel 2.
- (5)
Change-Over Switch
Stereo-, Mono Mix - Mode:
Stereo Mode: The device outputs the signal fed into the left input at the left headphone and the right signal at the right headphone.

Mono-Mix Mode: Channel 1 and channel 2 are mixed and output to both headphones. By means of the pan (balance) controller the ratio between both channels can be adjusted.

ACTUATORS REAR SIDE



Description of the actuators (rear side) :

- (1)
Switch On: Activation of the voltage supply of the device. This switch is installed slightly flushly so that it is protected against switching off by mistake.
- (2)
XLR inputs (L/1) and (R/2): Connections of the input signal of the mixing console.
Assignment of the XLR jack: 1 = ground
2 = signal +
3 = signal -
With asymmetric wiring, PIN 3 should be assigned to ground (bridge in the connecting plug). Maximum input level +5dBm
- (3)
DC-In Plug: (lockable) Connection of a 230V power adapter with 9V DC output, minimum output current 100mAh. When a battery or rechargeable battery is inserted in the body pack, it is switched off when plugging in the adapter. As soon as the plug is withdrawn, the Belt Pack works with battery voltage again. Poles (+ pin, - ring).
A suitable mains adapter with lockable DC plug can be supplied by Fischer Amps.

Mono operation of the Hard-Wired In-Ear Belt Pack:

With mono monitor mixing, the signal is connected to one of the two input channels, the change-over switch is adjusted to mono-mix mode (pressed), and the pan controller is in 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 over-all mono mix of the band, for instance, is supplied to channel 1, the signal of the musician to channel 2. Thus the musician can individually adjust his optimum listening signal by means of the pan controller (ratio of over-all mix and instrument).

Adjustment of the output level at the source of signal (mixing console):

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

Inserting the Battery or the Rechargeable Battery:

Switch off the device, open battery cover on top of the housing, insert battery or NiMH rechargeable battery in correct position of pole into the battery receptacle according to the drawing, put on cover and close it. Inserting the battery with the pole in incorrect direction will not cause any damage to the device (the device simply does not function).

Either use a 9V block alkaline battery or a nickel metal hydride (NiMH) brand rechargeable battery with 7 cells (8.4 V) and a capacity of at least 170mAh. We advise not to use cheap 9V zinc carbon batteries since their capacity is too low and they can leak.

The operating time with a rechargeable with 170 mAh is at least 5 hours. We therefore recommend to use such rechargeable batteries due to economic reasons and the protection of the environment. FISCHER AMPS offer special rackmount chargers for the use on stage with charging times of 2 hours as well as high-quality NiMH rechargeable batteries.

TECHNICAL DATA:

Dimensions l x w x h:	127 x 82 x 30 mm
Weight:	approx. 290g
Input Jacks:	2 x Neutrik XLR jack, 3-pole with interlock
Output Jack:	3.5mm / 1/8" jack stereo
Frequency Response:	30 Hz – 20 kHz +/- 2dB
Min. Impedance of the Headphones:	12 ohms per side
Input Impedance:	15 kOhm
Nom. Input Level symmetric:	0 dBV
Max. Input Level symmetric:	+4 dBV
Limit Input Level symmetric:	+5 dBV
Max. Output Power into 20 ohms:	40 mW per channel
Max. Operating Current:	40 mA
Power Supply:	9V block alkaline battery or 8.4V NiMH rechargeable battery
DC-Input Plug:	ext. Input Power DC 9V (Pin +, Ring -)

Operating Time of the Battery: with alkaline battery (500 mAh) approx. 12 hours
(depending on headphones volume) with NiMH battery (270 mAh) approx. 8 hours

In Ear Belt Pack Art. No. 001101

DC-Adaptor: Art. No. 006009

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