B-HPA Two-Input Headphone Monitoring Beltpack

The B-HPA is a compact, battery-powered unit for local monitoring of one stereo or two mono audio signals with headphones. Level metering and setup are via a bright, crisp OLED display and several configurable options allow tailoring of the unit to a wide variety of broadcast applications.

Audio I/O

Standard 3-pin XLR connectors (pin 1 = ground, pin 2 = phase/hot, pin 3 = antiphase/cold) are provided for the two audio inputs.

Both 6.35mm/0.25” and 3.5mm TRS stereo sockets are available for headphones, the larger of which can accept both A and B gauge jacks.

Separate volume controls are provided for each input channel.
In normal 'stereo' operation, this corresponds to individual volume settings for each ear of the headphones. Alternatively, with the unit set to 'mono' mode (see below), the two controls act as mix faders for a composite signal that is then sent to both ears of the headphones.

Power

The unit requires either a PP3/6F22-size 9V battery (alkaline types strongly recommended) or an external power supply of nominally 12VDC. DC input is via a 2.1mm 'barrel' connector (centre pin positive, acceptable range 9-16VDC) compatible with both standard plugs and Cliff twist-locking parts when extra security is required.

Display

During normal operation, the OLED display shows the status of the battery and two pseudo-PPM characteristic bargraph meters indicating the level at each input of the unit. When the battery indicator is empty, the battery should be changed as a matter of urgency.

Setup

Several features of the B-HPA may be customised to user preference. To enter Setup mode, hold the front-panel SEL button for approx. two seconds. The OLED display will show the first adjustable parameter and its current value.

Further brief presses of the SEL button will step through the available parameters, eventually looping back to the beginning. When the desired parameter is displayed, use the Up and Down arrow buttons to modify the value of the parameter as required.

To leave Setup mode, hold down the SEL button for two seconds once again. Setup mode will also be automatically cancelled if no button is pressed for ten seconds.

Adjustments made in Setup mode are stored in non-volatile memory and will continue to be applied until changed again. The available options are:

Input Routing (default value: STEREO)

When set to STEREO, each of the two audio input signals has its own volume control and feeds one ear of the headphone output. The signals may also, of course, be two different mono sources, but in both cases they are treated entirely separately.
When set to MONO, the two input signals are mixed and sent to both ears of the headphones. In this mode, the volume controls act as mix faders for each input.

Ch.1/Ch.2 Level Limiting (default value: OFF)

An optional level limiter can be applied to each ear of the headphone output.
When OFF is selected, the signal is limited only at the clipping point of the amplifier. Selecting LOW, MEDIUM and HIGH reduces the limit level by 3, 6 and 9dB respectively.

Dimensions

81mm wide, 55mm high, 120mm deep including beltclip (removable).

Product warranty

This unit is guaranteed for a period of one year from date of dispatch. This guarantee is a return-to-base warranty. In the unlikely event of a fault the goods should be returned to CTP Systems in the UK or your local dealer.

Compliance

This equipment is CE marked and conforms (where applicable) to the following directives:

Low Voltage Directive: EN60065
Emissions: EN55103.1
Immunity: EN55103.2

WEEE

CTP Systems are registered for Business to Business sales of WEEE in the UK. Our registration number is WEE/DF0509VR.

RoHS

The product conforms to the RoHS Directive 2002/95/EC for restriction of the use of hazardous substances in electrical and electronic equipment.

This unit was designed and manufactured in the UK by

CTP Systems Limited,
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