

SONIFEX

CM-BHA

Belt Pack Headphone Amplifier With Limiter & Loudspeaker

Catalogue ²⁰¹⁶





CM-BHA Belt Pack Headphone Amplifier With Limiter & Loudspeaker



Category: Talkback & Commentary.

Product Function: Battery powered headphone amp allows use for talkback & 4-wire applications.

Typical Applications: Used in TV studio floors, sports grounds and arenas by presenters and cameramen to hear talkback.

Features:

- Wide signal range capability.
- Transformer balanced inputs & outputs.
- Adjustable limiter protects the listener.
- Low battery warning indicator.
- 200 hours from a single 9V PP3 battery.

The CM-BHA is a portable, battery powered headphone amplifier for use in live applications such as in-the-field news reports.

The CM-BHA has a wide signal range and can apply gain of up to +20dB to the incoming signal. The volume control simultaneously modifies the output volume and the input gain, allowing input signals in excess of +24dBu to be reproduced without distortion.

The CM-BHA has an adjustable limiter to protect the listener from excessive levels indicated by a blue LED. The limiter is only enabled when an earpiece or headphones are used, and when it is activated by the toggle switch. It is disabled when no jack is inserted, allowing a higher volume to be passed to the speaker for "squawk mode" use.



CM-BHA Top and Bottom View.

Losing a cue feed due to batteries running out is not an option. With the CM-BHA, a low battery warning LED flashes when the



CM-BHA Front, Rear and Angled View.

9V PP3 battery has depleted to 6V, giving plenty of notice to swap the battery. The low power circuitry of the CM-BHA gives up to 200 hours use from a single alkaline 9V PP3 battery.

Specification For CM-BHA

Input Impedance:	200kΩ electronically balanced
Input Limiter Threshold:	Adjustable -14dBu to 0dBu
Maximum Input Level:	+28dBu
Input Gain/Volume:	Adjustable -70dBu to +20dB
Frequency Response:	20Hz – 20kHz ±0.5 (ref 0dBu 1kHz)
Noise:	<-75dBu A-weighted (ref 0dB gain)
Distortion:	<0.015% (ref +8dBu input, 0dB gain,

	10kΩ load)
Maximum HP	+16dBu (ref 9V battery voltage,
Output Level:	<1% THD, 2kΩ load) +12dBu (ref 6V battery voltage, <1% THD, 2kΩ load)
Minimum HP Impedance:	32Ω
Maximum Speaker Level:	+12dBu (ref 9V battery voltage, <1% THD) +6dBu (ref 6V battery voltage, <1% THD)

Equipment Type

CM-BHA Belt Pack Headphone Amplifier with Limiter & Loudspeaker

Physical Specification

Dimensions (Raw):	12.5cm (W) x 6.7cm (D) x 4.8cm (H) 4.9" (W) x 2.6" (D) x 1.9" (H)
Dimensions (Boxed):	22.9cm (W) x 12.7cm (D) x 7.6cm (H) 9.0" (W) x 5.0" (D) x 3.0" (H)
Weight:	Nett: 0.3kg Gross: 0.4kg Nett: 0.7lbs Gross: 0.9lbs

SONIFEX

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