



Technical Data Sheet

CANFORD HEADPHONE CUE AMPLIFIER

20-280 Canford Headphone Cue Amplifier, Battery Powered, 2 channel, 6.35mm jack out, 2 x XLR in.

INTRODUCTION

This two-channel, battery-powered headphone amplifier is designed for use in the field to monitor cue and a local source. Typically used by broadcasters, it may also suit the needs of sound crews in film and entertainment environments. Inputs are balanced, with extra gain available and the limiter on each channel is adjustable, to prevent problems with the varying levels often found out on location. The amplifier is built in a robust standard extruded box, fitted with protective ABS bezels and belt clip.

CONTROL AND CONNECTORS

The upper face has two volume controls, one for each earpiece and two switches to provide 20dB extra gain for each input. The headphone socket is a standard stereo 6.35mm A-gauge connector, wired with the left earpiece fed from the 'local input' and the right earpiece fed from the 'cue' input. The PP3 battery is fitted in a slide-out drawer.

On the lower face are three XLR connectors, two female for the 'local' and 'cue' inputs and a male to provide a loop-through connection. This is wired in parallel with the 'cue' input, typically fed with programme or IFB (interrupted feedback or foldback). A single screwdriver-operated control adjusts limiter sensitivity. The limiters are independent, but with a common threshold, operating after the volume controls. The threshold can be adjusted to a point where there is no limiting, where this is required.

The headphone cue amplifier is manufactured by Canford.

APPLICATION NOTE

The amplifier has no switching or mixing; one input is fed to each earpiece. The cue feed is commonly fed with IFB, where the cue feed is interrupted with talkback at a point upstream of the amplifier.

TECHNICAL SPECIFICATION

Battery:	9V, PP3 type, not included - 4022, MN1604, 6LR61, 6LF22, etc.	Distortion:	0.02% @+13dBu into 600 ohms.
Battery life:	Approximately 50 hours (with Alkaline type battery)	Load impedance:	To suit headphones 8 ohms to 2k ohms (nominal.)
Input impedance:	50k ohms	Dimensions:	107 x 93 x 50 (mm) not including control knobs.
Maximum input level:	+14dBu	Weight:	304 grams
Gain:	0dB or 20dB		
Noise:	-75dBu, 20dB gain, maximum volume		
Limiter threshold:	Variable from no limiting to -7dB output.		