STEREO MICROPHONE PREAMPLIFIER
MAINS POWERED

20-265 Electronically balanced outputs

User Instructions

This unit has been developed in order to meet the requirement for a high quality mains powered two channel microphone amplifier with a reasonable degree of functional flexibility.

The microphone input connections are made on the front of the unit using a 3 pin female latching XLR. The signal is routed to the front panel switches which operate on each channel: 'P48' phantom power on/off, 20dB 'PAD' on/off. The signal is then transformer coupled to the input stage. The 'GAIN' control allows the unit gain to be variable for each channel independently from 20 to 85dB approximately (0-65dB with 20dB pad in circuit). The 'CLIP' LEDs will illuminate with increasing intensity from approximately 8dB below clip. If this illuminates at apparently low gain settings, the 20dB pad should be switched in.

When the 'MODE' switch is in the 'A ÿ A, B ÿ B' position, the unit routes the two input channels independently to both outputs. With the 'MODE' switch in the 'A & B MIX ÿ A & B' position, the unit sums the two input channels and routes the signal to both outputs. When the 'MODE' switch is in the 'A ÿ A&B' position, the unit routes the A input channel to both outputs, likewise the 'MODE' switch in the 'B ÿ A& B' position routes the B input channel to both outputs.

The outputs are electronically balanced and appear on 3 pin male latching XLR's on the rear panel. Outputs are fully compensating for unbalanced connections.

Mains power is supplied via an IEC chassis mount connector with intregral fuseholder. Power on status is indicated by a green LED on the rear panel.

The unit is housed in a robust black anodised extruded aluminium case with protective glass-filled nylon end bezels.

This apparatus is intended to be used with screened signal cables.

In common with most sensitive audio/video equipment, electrical phenomena such as high voltage transient pulses on the mains supply could result in an audible disturbance at the signal output(s) of this unit. If this occurs, it is recommended that this interference is eliminated at its source or a mains filter fitted.

The use of radio transmitting equipment, such as mobile telephones and hand-held radio sets, in close proximity to this apparatus could reulst in an audible disturbance at the output of the apparatus.

The CE mark is applied to this products in respect of the Low Voltage Directive and the Electromagnetic Compatibility Directive. This apparatus complies wiht the safety and EMC requirements of these Directives when used as intended in domestic, commercial, light industrial and similar general indoor use. It must not be subjected to splashing or dripping.

WARNING! THIS APPARATUS MUST BE EARTHED.

No user servicedable parts accessible. Do not remove covers. Replacements mains fuses must be of a 250V rated European approved type with identical current and time characteristics.

TECHNICAL SPECIFICATION:

Equivalent input noise:	150O termination, 20kHz bandwidth, 20EC: typ. -127dBu
THD + Noise:	20kHz bandwidth: typ. 0.0035%
Frequency response:	20-25kHz ±0.5dB
Maximum output level into high impedance load:	+27dBu
Maximum output level into 600O:	+23.5dBu
Peak LED:	Illumination at approximately +18dBu
Input impedance:	2500 O
Output balance at 1kHz:	Typ. -60dB
Output balance at 15kHz:	Typ. -58dB
Input balance at 1kHz:	Typ. -60dB
Input balance at 15kHz:	Typ. -60dB
P48 supply to BS6840: Part 15:88/ IEC 268-15:87/DIN 45596:	10mA maximum per channel, 44-52VDC

Input connector:	3 pin XLR Neutrik NC3FDM3B female panel mount connector
Mating connector (not supplied):	3 pin XLR NC3MXB male cable (Canford stock code: 40-322)
Output connector:	3 pin XLR Neutrik NC3MDH male panel mount connector
Mating connector (not supplied):	3 pin XLR NC3FXB female cable (Canford stock code: 40-321)

Pin wiring:

Pin (1) Screen
Pin (2) Hot
Pin (3) Cold