

## M2420 Amplifier

# Operating Instructions

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COMMUNICATIONS

## Mitre 2420

The Mitre 2420 is equipped with two 0 dBm balanced line inputs per channel which incorporates a priority switching system. The priority is selected using a two-way dual in line switch. Switch '1' when selected 'on' provides input 2 muting when 1 is accessed. Switch '2' when selected 'off' enables the first input irrespective of access conditions. When both switches are selected 'on' input 1 will override input 2. Therefore it is possible to have both inputs mixing together or cascade priority depending on the requirements, refer to rear panel drawing.

Input 1 pre-set volume controls are located on the rear and input 2 are on the front panel.

A 200 Hz 12 dB/octave high bass filter may be selected to limit the bass response of any channel. This is useful if the speakers used have a limited response i.e. horn types.

The output stages are protected against overload and high temperature conditions. If the temperature exceeds a safe level the output signal is reduced to a low level preventing permanent damage to the amplifier. When it cools down, it will perform as normal without manual resetting.

The inputs to each amplifier are presented on two separate four-way plug-in terminal connectors, each connector provides a balanced audio input, ground and access DC control input. The output is presented on a three-way plug/screw termination connector providing 50V or 100V output.

## Mitre 2420 Technical Specification

Rated output power 100V line 230V AC supply	4 x 20W - 500 Ohms	
THD 1 kHz rated output from all channels 230V AC supply	Less than 0.5% typically 0.2%	
Typical output power 1% THD 230V AC supply	4 x 25W - 400 Ohms	
Output regulation 1 kHz 100V line	Better than 1.4 dB	
Output voltages obtainable by pin selection	50 & 100V	
Supply voltage AC	230V 50-60 Hz	
Power consumption @ 230V Quiescent Rated output power @ 1 kHz	12VA 180VA	
Fuse protection 1 x AC supply 20 x 5 mm 8 x DC (amplifier) auto blade type 1 x DC Aux output 20 x 5 mm	2A(T) 3A(F) 2A(T)	
Input type per channel	2 x line balanced with priority gating	
Input sensitivity	0.5V @ 40K Ohms balanced	
Input common mode rejection ratio 50 Hz - 30 kHz Frequency response -3dB @ Signal to noise ratio Selectable high pass filter	Better than 40 dB typically 60 dB 80 Hz - 20 kHz Better than 85 dB 200 Hz 12 dB/octave	
Channel separation @ 1 kHz	Better than 60 dB	
High pass filter	200 Hz - 12 dB/octave	
DC Aux output	30V @ 1.5A max.	
Terminations 1 x AC supply input 8 x Line signal inputs 1 x DC Aux output 4 x Loudspeaker line output	3-pin 4-pin 2-pin 3-pin	DIN IEC 6A Screw terminated connector Crimp terminated connector Screw terminated connector
Dimensions (mm) (D x W x H)	340 x 430 x 90	
Weight	8Kg	



