

# Multiple Input Mainframe



MPA050



MIM020

*Designed for use with up to 20 microphones and intended for application in conference and meeting room environments.*

# Multiple Input Mainframe

## MIM 020: Multiple Input Mainframe

### MPA 050: Five Input Microphone Module

The multiple input Mainframe MIM 020 is designed for use with up to 20 inputs and is intended for applications in conference and meeting room environments. Other applications will include medical practices where each doctor will need to call 'next patient' using the system on a first-come, first-served basis.

Inputs are presented in units of 5 on each MPA 050; one input can be given priority over all others within the Mainframe. This facility will allow conference chairmen to override delegates or, in a building in the event of an emergency, for a safety officer to take overall control.



The interior of the MIM 020.

Each input has the benefit of automatic proximity bass cut and sound level limiting, so that all announcements will be more clearly reproduced.

The Mainframe logic and input combiner electronics include:

I Pre-announcement 'gong'; switch selectable, this enables paging microphones within a system to prelude announcements with a simple, but attention getting, gong sound.

I Provision for plug-in automatic background noise level reduction, digital sound processing (D.S.P) technology: when incorporated, noise reductions of up to 30dB can be achieved.



The Multiple Input Mainframe can accommodate up to 20 inputs utilising MPA 050 modules of 5 inputs. (2 modules, giving 10 inputs, are installed in the illustrated system.)

## TECHNICAL SPECIFICATION

### MIM 020

2u rack mounting Mainframe, 200mm deep

#### Powering

24v dc @ 150mA interfaced to a 2.5mm socket, suitable for Communication Technology power supply PSU24V or host system powering

#### Output

Balanced OdBm, 600R source or -20 dBm, 60R source

#### Output interface

5PIN XLR

#### Frequency response

± 3dB 50Hz to 12KHz

#### Output Access

Suitable for VOX activated host amplifiers or for electronic access systems

#### Gong Function

When onboard selected as an option, fully automatic on using microphone P.T.T.

#### Input capacity

Four MPA 050, five input modules

#### Accessory

DSP 350 – Digital signal processor; increases the difference between unwanted background noise and speech announcements, even where this noise is at the same level as the announcement; plugs into MIM 020 MASTER BOARD: preset noise attenuation of up to 30dB

### MPA 050

5 input module for use with MIM 020

#### Input sensitivity

Suitable for most 600R microphones, -65 dB

#### Input gating

From attached microphone P.T.T, or switched. All inputs first-come, first-served; one input is switchable for overall priority

#### System access

Provision is made for each attached microphone to be signalled by LED, that the system is available for use

#### Frequency response

Unlimited. . . . . ± 3dB 100Hz to 10KHz

Bass cut in limit . . . . . variable with voice proximity to -18dB @ 100Hz

Proximity Level Limiting. . . maximum 26dB

#### Microphone input

5 PIN XLR

#### Order codes

**MIM 020** – Multiple input mainframe

**MPA 050** – 5 microphone input module

**PSU 24v** – Plug top power supply

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