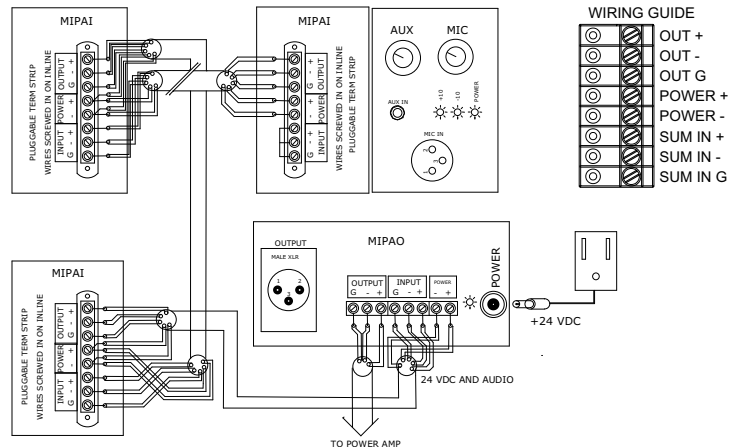


whirlwind MIPAI Active Wall plates



The Whirlwind MIPAI media input plates are active, dual input mixer plates designed to combine line and microphone input sources into a single line level balanced output that can be sent over long distances to remote audio processing equipment. Applications include gymnasiums, banquet halls, conference centers and others where local volume control is desired for the source material. The MIPAI is available in a one gang wall plate with black or clear brushed aluminum finish and in a two gang white decor insert.



INSTALLATION

Five wires are required (plus, minus and ground for audio with positive voltage and common power wires) for connection to the input of the processing electronics and the power supply. Wiring can be done with two pieces of Belden® 8451 type wire or a single Cat5 type wire. The MIPAI is designed so that the 24 VDC supply can be located in the electronics rack up to 1000 feet away from the plate.

CAUTION: Use care when installing MIPAI plates into backboxes. Slide into box so that circuit boards do not come into contact with sides of metal boxes, conduit fittings or wiring. The pluggable Phoenix connector can be installed with wires facing rearward or in between the circuit boards.

Electrical backbox depth of 2.5" minimum recommended for gangable box type, 2.125" for utility box type.

DESCRIPTION

Each Whirlwind MIPAI plate is a standalone two channel mixer with one balanced mic level input via a 3 pin female XLR and a stereo aux input connected through a 3.5mm TRS unbalanced jack that is summed to mono. Separate level controls are provided for each input and deliver enough gain to drive modern power amplifiers to full output. A bass cut switch is provided on the mic input for reducing rumble and handling noise.

An additional line input appears on the rear panel screw terminals for connecting up to two more MIPAI plates in a daisy chain type configuration, i.e., output of the first to the input of the second, output of the second to the input of the third and output of the third to the processing electronics. All three plates are summed together and all six level controls can adjust their respective inputs up to the maximum output drive level of +22 dB. If inputs from multiple MIPAI plates are used at the same time caution must be taken to keep the total summed output level below +22dB or sum bus clipping can occur. Each MIPAI has two LEDs that indicate signal levels of -10 dB and +10 dB. The last MIPAI in the chain will show signal level on its LEDs even if no input is being applied to that plate. All three plates can be powered from a single supply located in the equipment rack.



The Whirlwind MIPAO or MIPAT output termination boxes can be used to connect MIPAI plates to processing electronics. Audio output is via a 3 pin male XLR or screw terminals. A 2.1mm power input jack loops the wall power supply to the MIPAI screw terminal connections. The MIPAT model has a transformer isolated audio output.

SPECIFICATIONS:

Mic Input	60 dB max gain
Frequency Response	-0.8 dB @ 20 to -1.7 @ 20 kHz
Equivalent Input Noise Mic Preamp	117 dB
Max input level at 40 dB gain	-17 dBV
Max input level at 60 dB gain	-37 dBV
Bass cut filter	120 Hz 24dB/octave
Aux Input	26 dB max gain
Frequency Response at 20 dB gain	-0.8 dB 20 to 20 kHz
Max input at 0 dB gain	+17 dBV
Maximum Output Level	+23 dBV
Power Requirement	24 VDC 200 mA; 53 mA per plate max Whirlwind #PS242.1 when included



Output connections on the rear circuit board are 8 position, 3.5mm screw type, removable plugs (Phoenix® 1984073 or equivalent). The rear panel line input is shipped with a shorting jumper termination. Remove the jumper to connect another MIPAI.

Warranty

This product is guaranteed for 2 years from the date of purchase against manufacturing defects. For warranty service, return the unit, along with the original sales receipt, to Whirlwind, Rochester, NY 14612, postage prepaid. We will repair or replace the unit at our option and pay return postage.