

# AMIS120

120W, 4 Channel Mixer Amplifier

## Description

The AMIS120 is a 4 channel, 120 watt mixer amplifier suitable for rack or desk mounting. The amplifier is a self contained compact unit of solid steel construction. The amplifier may operate from mains power or 24V DC.

## Inputs

The AMIS120 has four universal input channels with separate level controls. Each channel will accept balanced or unbalanced microphone, line and auxiliary inputs. The unit has industry standard XLR microphone sockets and dual RCA auxiliary sockets for each channel. Line input 4 has a lower input sensitivity and is suitable for high level CD players. An insert point is also featured on the rear panel for those applications where an additional EQ or feedback extender may be required.

## Outputs

The AMIS120 features 100 volt, 70 volt, 4 & 8 ohm isolated transformer outputs, plus a tape recorder output by means of dual RCA sockets. A balanced 700mV XLR output is also provided to feed up to six power amplifiers. A vox triggered relay output is also available on the rear panel for activation of external devices from the vox muting circuit. In most cases this would be used as a muting bypass relay, which when used with the appropriate external attenuator will maintain preset paging levels irrespective of the attenuator setting.

## Speaker Zone Selector

A six position push button speaker zone selector with overriding "all call" is located on the front panel. Each of the six zone selectors switch the 100 volt speaker line output to six separate speaker zones. The "all call" selector overrides all 6 zones regardless of their on/off condition and places the 100 volt output to all six zones.

## Tone Generator

The AMIS120 comes standard with an in-built four tone generator module. Tones include Bell, Pre-Announce Chime, Alert Tone (AS2220.1) and Evacuate Tone (AS2220.1). Any of these tones may be activated from a simple contact closure connected to the rear panel of the amplifier. A Pre-announce defeat switch is located on the front panel.

## VCA Control

The master volume can be controlled remotely. External VCA control would normally be via a 500K pot connected to a two wire rear panel barrier strip.

## Muting

VOX muting is standard on the AMIS120. A mic or line signal on channels 1 or 2 will mute channels 3 and 4. The muting function can be disabled via an internal link.

## Phantom Power

Phantom Power (18V DC) is available from all mic inputs. A rear panel phantom power on/off switch is also provided.

## Protection

Internal current limiting protects the amplifier from both overload and overdrive conditions. Australian Monitor Installation Series amplifiers feature a protection network that provides greater stability and performance. Our amplifiers are recognised worldwide for their reliability and this is due to the extensive levels of current limiting which protect the amplifiers from both overload and overdrive conditions.





<b>Power Output</b>	120 Watts RMS
<b>Maximum Load</b>	80 Ohms @ 100 Volts
<b>Power Bandwidth</b>	60Hz - 15kHz < 0.5% THD
<b>Frequency Response</b>	60Hz - 15kHz (± 3dB)
<b>Total Harmonic Distortion</b>	0.5% @ 1kHz rated power
<b>Signal To Noise Ratio</b>	-74dB with all controls at their centre position
<b>Tone Controls</b>	Bass @ 100Hz: Boost +12dB Cut -12dB; Treble @ 10kHz: Boost +9dB Cut -9dB
<b>Inputs</b>	Four mic/aux universal inputs with XLR female mic sockets and dual RCA aux sockets plus an insert point
<b>Input Sensitivity</b>	Mics: 1mV @ 200 Ohms; Aux 1-3: 75mV @ 47K Ohms; Aux 4: 300mV @ 47K Ohms
<b>Outputs</b>	Speaker: 100, 70 Volts, 4 & 8 Ohms; Tape: 350mV @ 10K Ohms; Line: Balanced 700mV
<b>Phantom Power</b>	18 Volts DC on all Mic inputs (rear panel on/off switch)
<b>Speaker Zone Selection</b>	Speaker zone selector, switches 100V line output to 6 separate zones. An "all call" switch overrides all zones.
<b>Controls</b>	4 input channel gain controls, 1 Bass control, 1 Treble control, 1 Master gain control, 6 Speaker zone selector, 1 Speaker "all call" selector, Pre-announce defeat switch, Phantom Power switch (on rear panel)
<b>Indicators</b>	Power "on" LED
<b>Power Source</b>	AC 230/240V - 50Hz; DC 24V; 110V - 60Hz (special) 3 pin IEC connector
<b>Power Consumption</b>	250 Watts
<b>Protection</b>	Soft limiter for overload and overdrive protection, plus AC and DC fuses
<b>Dimensions/Weight</b>	88mm H x 480mm W x 330mm D (Chassis dimensions only). 12kg
<b>Rack Mounting</b>	Standard
<b>Tone Generators</b>	Built-in four tone generator module. Includes Bell, Pre-Announce, Alert and Evac tones
<b>Muting</b>	Built-in VOX muting. Channels 1 and 2 will mute channels 3 and 4

**ARCHITECTURAL AND ENGINEERING SPECIFICATIONS**

The mixer amplifier shall have four universal input channels, each comprising of a balanced microphone input with XLR female sockets and an auxiliary input using dual RCA sockets. The 100V line speaker outputs should be able to be switched via a six position selector with "all call". A balanced XLR output to drive additional power amplifiers shall also be provided.

This unit shall offer remote master VCA control, 24V DC and mains power operation, and a vox triggered relay output.

The amplifier master section shall include one master gain control, two EQ controls, one with 12dB of cut and boost at 100Hz and the other with 9dB of cut and boost and 10kHz speaker outputs shall be transformer isolated at 100V, 70V, 4 & 8 ohms. The amplifier must be capable of delivering 120 watts RMS into an 80 inductive ohm load, with less than 0.5% distortion measured at 1kHz and with system hum and noise less than -74dB.

The amplifier shall be an Australian Monitor Installation Series model AMIS120.

