



AMIS250

250W, 6 Channel Mixer Amplifier

Description

The AMIS250 is a 6 channel, 250 watt mixer amplifier suitable for rack or desk mounting. The amplifier is a self contained compact unit of solid steel construction.

Inputs

The AMIS250 has six 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. An electronically-balanced 600 ohm telephone input for paging is also provided. An insert point is also featured on the rear panel for those applications where an additional EQ or feedback exterminator may be required.

Outputs

The AMIS250 features 70 volt and 4 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 6 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 paging levels irrespective of the attenuator setting.

VCA Control

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

3 Band EQ

The AMIS250 includes a 3 band equaliser (Bass, Middle and High), giving the user a wider range of tone controls for high level music or difficult voice applications.

Tone Generator

The AMIS250 comes standard with an in-built four tone generator module. Tones include Bell, Pre-announce Chime, Alert Tone and Evacuate Tone. Any of these tones may be activated from a simple contact closure on the rear panel of the amplifier.

Muting

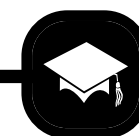
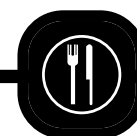
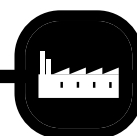
VOX muting is standard on the AMIS250. A mic or line signal on channels 1 or 2 will mute channels 3, 4, 5 and 6. The muting function can be disabled via an internal link.

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.



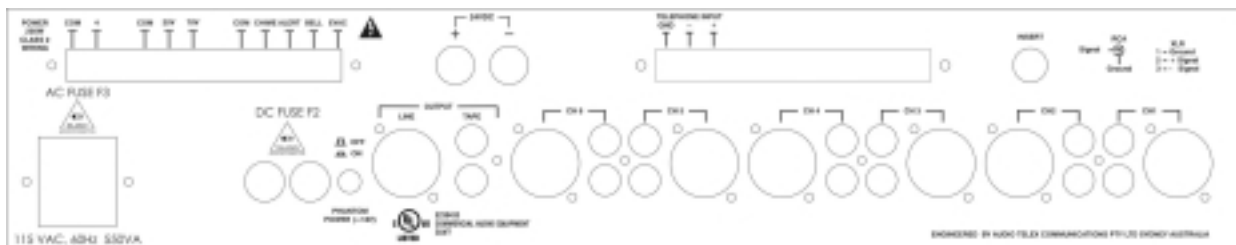
Power Output	250 watts RMS
Maximum Load	20 Ohms @ 70 Volts
Power Bandwidth	60Hz - 17kHz (- 3dB)
Frequency Response	60Hz - 23kHz (- 3dB)
Total Harmonic Distortion	0.5% @ 1kHz rated power
Signal To Noise Ratio	-74dB with all controls at their centre position
Tone Controls	Bass @ 100Hz: Boost +12dB Cut -12dB; Mid @ 600Hz: Boost +12dB, Cut -12dB; Treble @ 10kHz: Boost +9dB Cut -9dB
Inputs	Six mic/aux universal inputs with XLR female mic sockets and dual RCA Phono aux sockets; 600 ohm transformer balanced telephone paging input
Input Sensitivity	Mics: 1mV @ 200 Ohms; Aux: 150mV @ 47K Ohms
Outputs	Speaker: 70 Volts, 4 Ohms; Tape: 350mV @ 10K Ohms; Line: Balanced 700mV
Phantom Power	18 Volts DC on all Mic inputs
Controls	6 Input channel gain controls, 1 Bass control, 1 Mid Control, 1 Treble control, 1 Master gain control, Phantom Power on/off switch (on rear panel)
Indicators	Power "on" and "Protect" LED
Power Source	120VAC 60Hz 3 pin IEC connector; 24VDC
Power Consumption	400 Watts
Protection	Current Limiter protection, plus AC and DC fuses
Dimensions/Weight	3.5" H x 19" W x 13" D (Chassis Dimensions only). 33.1lb
Rack Mounting	Standard
Tone Generators	Built-in four tone generator module. Includes Bell, Pre-Announce, Alert and Evac Tones
Muting	Built-in VOX muting. Channels 1 and 2 will mute channels 3, 4, 5 and 6

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The mixer amplifier shall have six universal inputs each comprising of a balanced microphone with XLR female sockets and an auxiliary input using dual RCA sockets. A balanced XLR output to drive additional power amplifiers shall also be provided.

The amplifier master section shall include one master gain control, three EQ controls, one with 12dB of cut and boost at 100Hz, one with 12dB cut and boost at 600Hz and the other with 9dB of cut and boost at 10kHz. Speaker outputs shall be transformer isolated at 70 volt and 4 ohms. The amplifier must be capable of delivering 250 watts RMS into a 20 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 AMIS250.



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