

ACM250

250W, 6 Channel Mixer Amplifier

Description

The ACM250 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 ACM250 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. Line Input 6 has a lower input sensitivity and is suitable for high level CD players.

Outputs

The ACM250 features 100 volt, 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.

3 Band EQ

The ACM250 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 ACM250 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 on the rear panel of the amplifier.

Muting

VOX muting is standard on the ACM250. A mic or line signal on channels 1 or 2 will mute channels 3, 4, 5 and 6. The muting function can be disabled if 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	40 Ohms @ 100 Volts
Power Bandwidth	60Hz - 15kHz < 0.5% THD
Frequency Response	60Hz - 15kHz (± 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
Input Sensitivity	Mics: 1mV @ 200 Ohms; Aux 1 - 5: 75mV @ 47K Ohms; Aux 6: 300mV @ 47K Ohms
Outputs	Speaker: 100, 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	AC 230/240V - 60Hz, 110V - 50Hz (special) 3 pin IEC connector
Power Consumption	400 Watts
Protection	Current Limiter protection, plus AC and DC fuses
Dimensions/Weight	88mm H x 480mm W x 330mm D (Chassis Dimensions only). 15kg
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 100 volt, 70 volt and 4 ohms. The amplifier must be capable of delivering 250 watts RMS into a 40 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 ACM250.



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