

ACM120

120W, 4 Channel Mixer Amplifier

Description

The ACM120 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.

Inputs

The ACM120 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.

Outputs

The ACM120 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.

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 ACM120 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.

Muting

VOX muting is standard on the ACM120. 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.





Power Output	120 Watts RMS
Maximum Load	80 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; Treble @ 10kHz: Boost +9dB Cut -9dB
Inputs	Four mic/aux universal inputs with XLR female mic sockets and dual RCA aux sockets
Input Sensitivity	Mics: 1mV @ 200 Ohms; Aux 1-3: 75mV @ 47K Ohms; Aux 4: 300mV @ 47K Ohms
Outputs	Speaker: 100, 70 Volts, 4 & 8 Ohms; Tape: 350mV @ 10K Ohms; Line: Balanced 700mV
Phantom Power	18 Volts DC on all Mic inputs (rear panel on/off switch)
Speaker Zone Selection	Speaker zone selector, switches 100V line output to 6 separate zones. An "all call" switch overrides all zones.
Controls	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)
Indicators	Power "on" LED
Power Source	AC 230/240V - 60Hz, 110V - 50Hz (special) 3 pin IEC connector
Power Consumption	250 Watts
Protection	Soft limiter for overload and overdrive protection, plus AC and DC fuses
Dimensions/Weight	88mm H x 480mm W x 330mm D (Chassis dimensions only). 12kg
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 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 100 volt 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.

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 100 volt, 70 volt, 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 ACM120.



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