

ACM120

AUDIO TELEX
COMMUNICATIONS PTY LTD



120w, 4 Channel Mixer Amplifier

Description

The ACM120 is a 4 channel, 120 watt mixer amplifier suitable for table or desk mounting. Alternatively, it can be rack mounted by means of an optional rack kit. 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 Phono 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 Volts, 4 & 8 ohm isolated transformer outputs, plus a tape recorder output by means of dual RCA Phono sockets. A balanced 700mV XLR output is also provided to feed up to 6 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 6 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 6 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 (18 volts 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.



ACM120 Specifications

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% @ 1 KHz 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 Phono aux sockets.

Input Sensitivity

Mics: 1 mV @ 200 Ohms

Aux 1-3: 75 mV @ 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 on/off switch (on rear panel)

Indicators

Power "on" LED

Power Source

AC 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

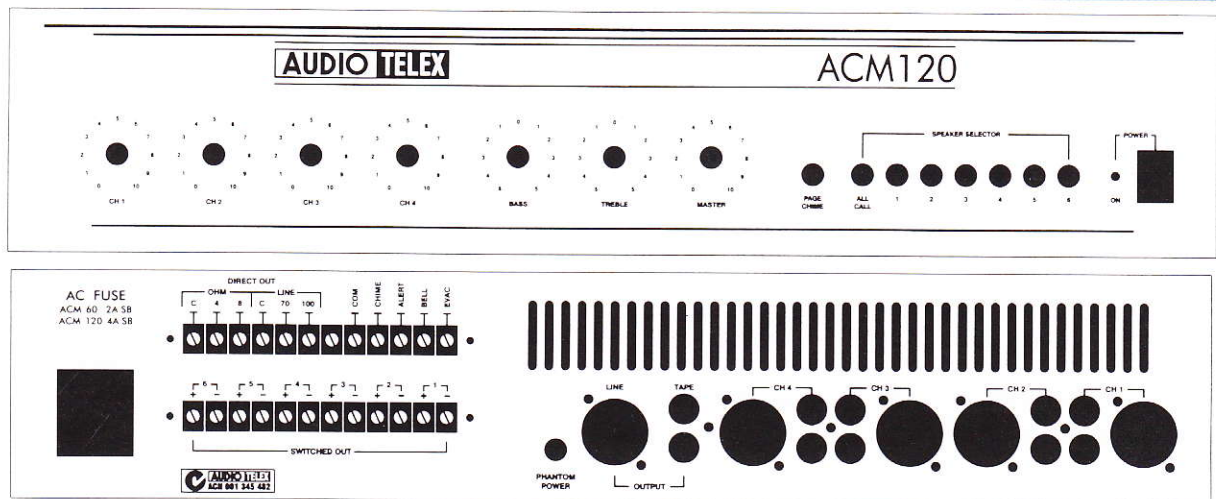
Optional ACMRK Rack mount kit (2RU)

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 Phono RCA sockets. The 100 volt line speaker outputs should be able to be switched via a 6 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 at 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 1 kHz and with system hum and noise less than -74dB.

The amplifier shall be an Audio Telex model ACM120, manufactured in Australia.