

# ACM60

60W, 4 Channel Mixer Amplifier

## Description

The ACM60 is a 4 channel, 60 watt mixer amplifier suitable for rack or desk mounting. The amplifier is a self contained compact unit of solid steel construction.

## Inputs

The ACM60 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 ACM60 features 100 volt, 70 volt and 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 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 ACM60 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 ACM60. 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>	60 Watts RMS
<b>Maximum Load</b>	160 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% @ 1 KHz 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
<b>Input Sensitivity</b>	Mic: 1mV @ 200 Ohms; Aux 1-3: 75mV @ 47K Ohms; Aux 4: 300mV @ 47K Ohms
<b>Outputs</b>	Speaker: 100, 70 Volts, 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 on/off switch (on rear panel)
<b>Indicators</b>	Power "on" LED
<b>Power Source</b>	AC 230/240V - 60Hz, 110V - 50Hz (special) 3 pin IEC connector
<b>Power Consumption</b>	125 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). 10kg
<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 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 at 10kHz. Speaker outputs shall be transformer isolated at 100 volt, 70 volt and 8 ohms. The amplifier must be capable of delivering 60 watts RMS into an 160 ohm inductive 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 ACM60.

