

# ACM604

4 x 60 Watt Mixer Amplifier

## Description

The ACM604 features four individual 60 watt mixer amplifiers in a 2 RU chassis and is suitable for rack or desk mounting.

## Inputs

Each of the four mixer amplifiers feature three dual mic/line inputs accessible via barrier strips on the rear of the unit. Each input may be switched between mic or line via an internal dip switch. A level control is available per input channel.

## Outputs

The ACM604 features 100 volt, 70 volt, 8 ohm isolated transformer outputs per amplifier module. With the addition of an optional tone generator module 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, such as our ATC5143 or ATC5143FS, will maintain paging levels irrespective of the attenuator setting. VCA control of the master output of each amplifier module is also available via the rear terminal strip. Each amplifier also includes a recessed bass and treble control.

## Tone Generator

The ACM604 offers the convenience of an optional plug in tone generator module. All four channels of this amplifier may have their own tone generator module. The individual tones are accessible via contact closure on the rear of each amplifier module. There are four tones on the optional plug in module, alert, evac, bell and pre announce. Spare contacts on the board allow a vox triggered output for the activation of remote devices.

## Muting

VOX muting is standard on the ACM604. A mic or line signal on channel 1 will mute channels 2 and 3 per amplifier. The muting function can be disabled via an internal link. Each of the four mixer amplifier modules has its own muting circuit.

## Phantom Power

Phantom Power (18 volts DC) is available from all mic inputs. An internal dip switch allows phantom power to be selected on a per input, per module basis.

## Protection

Internal current limiting protects the amplifier from both overload and overdrive conditions. Fan cooling will be activated if the unit exceeds a factory preset temperature.

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>	4 x 60 Watts RMS
<b>Maximum Load Per Amplifier</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% @ 1kHz 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>	Three mic/aux universal inputs per mixer amplifier module. Mic/Line selection can be made via an internal dip switch
<b>Input Sensitivity</b>	Mics: 1mV @ 200 Ohms; Aux 75mV @ 47K Ohms
<b>Outputs</b>	Speaker: 100, 70 Volts, 8 Ohms
<b>VCA Master Level Control</b>	Via a 1K pot added to the rear barrier strip of each amplifier module
<b>Phantom Power</b>	Selectable per input of each amplifier module via an internal dip switch. 18 V
<b>Controls</b>	3 Input channel gain controls, 1 Bass control, 1 Treble control, 1 Master VCA gain control per amplifier
<b>Indicators</b>	Power "on" LED
<b>Power Source</b>	AC 240V - 60Hz, 110V - 50Hz (special) 3 pin IEC connector
<b>Power Consumption</b>	400 Watts
<b>Protection</b>	Overload and overdrive protection, plus AC and DC fuses
<b>Dimensions/Weight</b>	88mm H x 480mm W x 350mm D (Chassis Dimensions only). 17kg
<b>Rack Mounting</b>	Standard
<b>Tone Generators</b>	Optional four tone generator module. Includes Bell, Pre-Announce, Alert and Evac Tones, plus a vox triggered relay output.
<b>Muting</b>	Built-in VOX muting. Channel 1 will mute channels 2 and 3 per amplifier

#### ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The four channel mixer amplifier shall have three universal input channels, accessible via a rear panel barrier strip on each of the four amplifier modules. Each amplifier module shall allow remote VCA control of the master output. Phantom power selection on a per channel, per amplifier basis shall also be included. A Vox triggered output shall also be available on an optional four tone generator card.

Each amplifier master section shall include one master VCA accessible 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 & 8 ohms. The amplifiers must be capable of delivering 60 watts RMS into a 160 ohm inductive load, with less than 0.5% distortion measured at 1 kHz and with system hum and noise of -74dB or better.

The amplifier shall be an Australian Monitor Installation Series model ACM604.



Engineered and Distributed By **AUDIO TELEX COMMUNICATIONS PTY LTD** (ABN 78 001 345 482), 149 Beaconsfield Street, Silverwater, Sydney, NSW, 2128 Australia

NSW Tel: (02) 9647 1411 Fax: (02) 9648 3698 VIC Tel: (03) 9890 7477 Fax: (03) 9890 7977 QLD Tel: (07) 3852 1312 Fax: (07) 3252 1237 WA Tel: (08) 9228 4222 Fax: (08) 9228 4233

TAS Tel: (03) 6228 6373 Fax: (03) 6278 1063 SA Tel: (08) 8352 4444 Fax: (08) 8352 4488 Export Enquiries: [export@audiotelex.com.au](mailto:export@audiotelex.com.au) Website: [www.australianmonitor.com.au](http://www.australianmonitor.com.au)