SPECIFICATIONS

AUDIO TELEX COMMUNICATIONS PTY LTD

AT120RC

RECEIVER CASSETTE AMPLIFIER

Mixer amplifier with built-in Radio Receiver, Auto Reverse Cassette Deck, Speaker Zone Selector, 4 Tone Generator and Monitor Speaker.

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
-72dB 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 RCA Phono aux sockets.

INPUT SENSITIVITY
MIC: 1mV @ 200 Ohms all inputs.
AUX: Inputs 75 mV in 47k ohms

OUTPUTS
SPEAKER: 100,70v, 4 & 8 ohms
TAPE: 350mV in 10k ohms

SPEAKER ZONE SELECTION
Speaker zone selector, switches 100V line output to 6 separate zones. An " all call " switch overides all zones.

CONTROLS
4 Input channel gain controls
1 Bass control
1 Treble control
1 Monitor speaker vol control
1 Master gain control
6 Speaker zone selector
1 Speaker all call selector
1 Evacuate tone push button
1 Bell tone push button
1 Power on / off switch

INDICATORS
Limit LED
Power neon

POWER SOURCE
AC 240 / 110 Volts 50Hz
Power consumption 350 watts.

PHANTOM POWER.
15 Volts DC Mic Input One.

TONE GENERATORS
Two push buttons on the front panel activate bell and evacuate tones automatically. Four tones are available for remote operation, see more details back page.

RACK MOUNTING KIT:
ATRMK

PROTECTION
Soft limiter for overload and overdrive protection, plus AC & DC fuses.

RADIO RECEIVER
Digital FM / AM Tuner,with push button tuning and level control.
Tuning range:
FM 87.5 - 108MHz
AM 522 - 1620KHz
Antenna input:
FM 300 ohm balanced
75 ohm coaxial
AM High impedance lead
Usable sensitivity:
FM 2uV AM 4.5uV
Signal to noise ratio:
FM 60dB AM 45dB

CASSETTE DECK
Auto reverse, push button control, LED direction indicator and level control.
Signal to noise ratio:
60dB
Wow and flutter
Less than 0.35%
Frequency response :
100Hz to 10KHz
Tape FF or RW time:
180 seconds
Tape speed :
4.76cm / sec.

DIMENSIONS / WEIGHT
H 88mm W 480mm D 330mm
12kg

AUSTRALIAN MADE

Quality Endorsed Company QEC4243 ISO9002:1994

DESCRIPTION
120 watt RMS output mixer amplifier with built-in Radio Receiver, Auto Reverse Cassette Deck, Monitor Speaker and Four Tone Generator. Self contained solid steel construction, suitable for table or desk mounting or rack mount-able, by means of an optional rack mounting kit.

INPUTS AT120RC has four universal channels with separate gain controls and ample headroom. Each channel will accept balanced or unbalanced microphone, line and auxiliary inputs. The unit has industry standard XLR microphone sockets and RCA Phono auxiliary sockets for each channel.

OUTPUTS Speaker outputs for the AT120 are 100 & 70 Volts, 4 & 8 ohm isolated transformer outputs, plus a tape recorder output by means of an RCA Phono socket.

RADIO RECEIVER A high quality radio receiver with push button digital tuner is an integral part of the amplifier, with controls located on the front panel. The receiver is easy to operate and has 18 station memory capacity. An LCD panel indicates tuning frequency and a separate level control enables strong signal levels to be maintained even in low strength areas.

CASSETTE PLAYER A reliable robust auto reverse continuous play cassette player is also an integral part of the amplifier. Controls are located on the front panel, together with the loading mechanism for the cassette. The deck is easy to operate, it features a push button pause control, push button direction control and LED indicators, an eject button and level control.

SPEAKER SELECTOR A six position push button speaker selector with overriding "all call" is located on the front panel. Each of the six speaker selectors switches the 100 Volt speaker line output to 6 separate 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 A four tone module ATC5488 is installed.The unit plugs-in to a 7 pin receptacle inside the amplifier and provides Bell, Pre-announce Chime, Alert tone (AS2220.1) and Evacuate Tone (AS2220.1). Any of these tones may be activated from a remote point by means of external connections at the rear panel of the amplifier. Activation of any tone automatically mutes inputs 3 & 4 and program from the in-built radio receiver and cassette player.

MUTING An optional single channel muting module TX3010 can be fitted to the amplifier internally, by means of a multi-pin socket provided on the circuit board. TX3010 will provide voice or program operated muting of channels 3 and 4 when activated from channels 1 or 2. Automatic muting of in-built radio or cassette programs will occur when either input 1 or 2 is actuated:

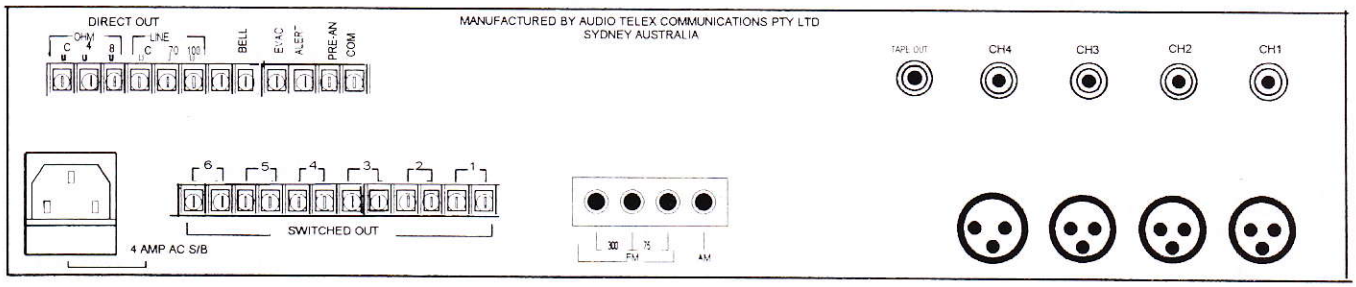
PROTECTION Internal current limiting protects the amplifier from overload and overdrive conditions,

SAFETY: By mean of a 3 pin IEC connector with built-in fuse for maximum safety and convenience.

RACK MOUNTING
ATRMK Rack mount kit

ARCHITECTURAL ENGINEERING SPECIFICATIONS
The mixer amplifier shall have four universal inputs each comprising a balanced microphone with XLR female sockets and auxiliary input with a sensitivity of 75mV using Phono RCA sockets.
The unit shall incorporate a digital FM / AM receiver with 18 preset channels capacity, a level control and LCD frequency display. It shall also incorporate an auto reverse cassette player capable of accepting standard compact cassettes. The player will also feature two LEDS indicating the direction and side of the tape in use. Fast forward, rewind buttons and a pause control are essential functions of the cassette player. Both program sources will have separate inputs into the amplifier which are activated when the level control for each unit is activated.
A monitor speaker with its' own amplifier and volume control shall be installed internally. The speakers' function will be monitoring of the all program inputs, its' level will not be affected by the amplifiers' master gain control.
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 will be available from a transformer isolated output at 100 & 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 -72dB.

The amplifier shall be an Audio Telex model AT120RC, manufactured in Australia.



REAR VIEW OF AT120RC MIXER AMPLIFIER