



Australian Monitor

AB-1

DUAL MODE ENHANCED COMPRESSOR/LIMITER

The Australian Monitor AB-1 is a unique Dual Mode compressor/limiter with several new and innovative functions, designed for use in any professional audio dynamics control application.

• Dual Mode capability

This means you can operate the AB-1 two different ways. In **Two** channel mode, it performs as two independent compressor/limiters, with

signal, compensating for the sagging Low and High frequency response of compressed program material. Think of it as a 'smart' loudness control.

• Balanced Inputs and Outputs

On the rear panel, each channel has true differential Balanced inputs and outputs, on both XLR and TRS jack connectors. As well, each channel has a TRS jack Sidechain access in-



'industry standard' variable Threshold, Ratio and Output gain. A Stereo Link switch on the front panel lets both channels track as a stereo pair in a Master/Slave configuration.

A single front panel switch puts the AB-1 into its alternative **Mono** mode, setting it up as a Single channel, Dual Band compressor/limiter, with separate dynamics control of both Low and High frequencies, opening up a whole new range of gain control techniques.

• Wide Scale metering

There is comprehensive LED indication of all operating functions and status in either mode, and full LED displays of both Output level and Gain reduction in easy to read 'wide scale' meters.

• Enhance Switch

In either mode, the AB-1 features an 'Enhance' switch, which provides frequency restoration to preserve the spectral balance of the audio

signal, for applications such as De-essing (when used with an external equalizer such as the Australian Monitor MQ6 or EQ302).

Other features include a true Hardwire bypass switch for each channel, and passive RFI filters on the inputs.

• Universal AC Power

AC power range is a universal 100 to 120V or 220 to 240V AC, and is connected to the unit via a removable power lead and standard 3 pin IEC connector, with built-in fuse and voltage change switch.

With its flawless sound, intuitive 'user friendly' layout, high density precision circuitry, and extensive user-variable operating parameters, the Australian Monitor AB-1 is equally at home in exacting Studio, Broadcast and Sound Reinforcement environments. It can provide great sounding dynamics control effects that are not available with any other device.

Technical Specifications

AB-1

Input Impedance

Balanced 20 Kohms
Unbalanced 10 Kohms

Input Headroom

+ 22 dB

CMRR

>45 dB, 20 Hz—20 KHz

Output Impedance

Balanced 300 ohms
Unbalanced 150 ohms

Output Level (Max)

+ 20 dB

Frequency Response

20Hz—20KHz \pm 0.5dB

Signal to Noise ratio

-88 dB Unweighted
-93 dB 'A' weighted

Distortion

.03% THD @ 0dB, 1KHz

Dynamic Range

108 dB

Attack and Release Times

Program dependent

Sidechain Insert Impedance

10 Kohm

Filter Type

Phase corrected 6dB per octave

Summed Filter Response

+/-0.2dB through crossover region

Dividing Frequency

250 Hz

Low /High Enhance

50 Hz/10 KHz

Power Requirements

100/120 V AC, 50 - 60 Hz
220/240 V AC, 50 - 60 Hz

Weight

5 lbs/2.2 Kg

Dimensions

19"W x 1 $\frac{3}{4}$ "H x 6"D
482 x 44 x 155mm

Input /Output Connector type

XLR, Balanced Jack

Sidechain Insert Connector

TRS Jack

Architect's Specifications

The enhanced compressor/limiter shall be a dual channel unit in a steel chassis six inches deep and one rack unit high. There shall be a front panel switch to link the channels to track as a stereo pair. As well, there shall be a switch to put the unit into dual band mode; in this mode Channel 1 shall compress Low frequencies, and Channel 2 shall compress High frequencies. The filter shall be 6 dB per octave, phase corrected, with a dividing frequency of 250 Hz, and the unit shall have a summed filter response of +/- 0.2dB through the crossover region.

Each channel shall have a 9 segment LED Output level display, and a 9 segment LED Gain Reduction display, plus variable controls for Threshold, Ratio and Output Gain. Attack and Release times shall be program dependent. Each channel shall also have a hardwire Bypass switch on the front panel, and a switch to control the Enhance circuit. This circuit shall operate in either mode, and shall provide Low frequency enhancement at 50 Hz, and High frequency enhancement

at 10 KHz.

The unit shall have electronically Balanced inputs and outputs, on both TRS jack and XLR type connectors, with passive RFI filters and an Input impedance of 20 Kohms (10 Kohms unbalanced). The Input headroom shall be +22dB, with a CMRR of better than 45dB, and the frequency response shall be 20 Hz to 20 KHz, +/-0.5dB. The Output impedance shall be 300 ohms (150 unbalanced), and the maximum Output level shall be +20dB, with a Signal to Noise ratio of -93dB 'A' weighted (-88dB unweighted). The Sidechain points shall be TRS jack connectors and have an impedance of 10 Kohms. T.H.D shall be .03% @ 0dB, 1 KHz, and the unit shall have a dynamic range of 108dB. AC Power shall be supplied via a removable mains cable, connecting to an IEC connector with an integral fuse and voltage change switch on the unit's rear panel.

The compressor/limiter shall be the AM AB-1.



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In keeping with our policy of continually improving the technical quality of our products, we reserve the right to change component types, manufacturers, sources of supply or technical specifications at any time

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