



Australian Monitor

DP-1

DUAL CHANNEL DYNAMICS PROCESSOR

The sheer amount of effects and signal processors necessary for today's standards of audio production puts a great strain on the available space in equipment racks, both in the studio and on the road.

So, in order to give engineers more control in less space, Australian Monitor have created the DP-1. A dual channel dynamics processor, designed to give total control over all audio dynamics. It is ideally suited for any professional

there is a Stereo Link switch for Master/Slave compressor operation.

The compressor section features proprietary 'AutoSoft' circuitry with soft knee operation at low ratios, gradually changing to hard knee at higher ratios.

• **Balanced Inputs and Outputs**

Other features include true differential Balanced Inputs with passive RFI filters, and Servo Bal-



application, and is housed in a compact, all steel 1 RU chassis.

• **A Total Dynamics Control package**

Each channel of the DP-1 features a Noise Gate; a variable ratio Compressor ranging from 1:1 to infinity:1; and an independent Peak Limiter following after the Output Gain. All three of these gain control elements are discrete, allowing fast accurate setup with no interaction.

• **'Wide Scale' LED metering**

A total of 27 LEDs per channel provide a comprehensive visual display of all channel functions and controls, with 'wide scale' switchable Input/Output Level metering, and a separate Gain Reduction meter.

• **Hardwire Bypass**

Operation of the Gate and Peak Limiter functions are indicated by status LEDs. Each channel has its own Hardwire Bypass switch, and

anced Outputs, on both XLR and convenient TRS jack connectors.

There is also a Sidechain access insert point on a TRS jack connector, for frequency sensitive compression and de-essing (in conjunction with an external equalizer such as the Australian Monitor Multi Q or EQ60).

• **Universal AC Power**

AC power is a universal 100 to 120V or 220 to 240V, 50-60 Hz, and is connected to the unit via a removable power lead and standard 3 pin IEC connector, with built in fuse and voltage selection switch.

With its flawless sound, intuitive 'user friendly' layout, high density precision circuitry, and extensive user-variable operating parameters, the DP-1 is equally at home in Studio, Broadcast and Sound Reinforcement, and has specifications suitable for the exacting requirements of digital audio.

Technical Specifications

DP-1

Input Impedance

Balanced 20 Kohms
Unbalanced 10 Kohms

Input Headroom CMRR

+ 22 dB

Output Impedance

Balanced 300 ohms
Unbalanced 150 ohms

Output Level (Max)

+ 22 dB

Frequency Response

20Hz—20KHz \pm 0.4dB

Signal to Noise ratio

-85 dB Unweighted
-99dB 'A' weighted

Distortion

.02% THD @ 0dB, 1KHz

Dynamic Range

107 dB

Sidechain Insert Impedance

10 Kohm

Attack and Release Times

Program dependent

GateSection

Threshold -60dB to +6dB

Attenuation Preset: -70dB

CompressorSection

Threshold -40dB to +20dB

Ratio 1:1 to infinity:1

Peak LimiterSection

Threshold -3dB to +18dB

Ratio Fixed: infinity:1

Output Gain

-20dB to +20dB

Power Requirements

100/120 V AC, 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 combination gate/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 and status LED to link the channels to track as a stereo pair.

Each channel shall have a 10 segment LED display, switchable between Input and Output level, and a 10 segment LED Gain Reduction display. There shall also be variable controls for Gate Threshold, Compressor Threshold and Ratio, Output Gain and Output Peak Limiter, with status LEDs. Both compressor and gate Attack and Release times shall be program dependent, and the peak limiter ratio shall be fixed at infinity:1. Each channel shall also have a hardwire Bypass switch on the front panel, and a separate Gate Bypass switch.

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 60dB, and the frequency response shall be 20 Hz to 20 KHz, +/-0.4dB. The Output impedance shall be 300 ohms (150 unbalanced), and the maximum Output level shall be +20dB, with a Signal to Noise ratio of -89dB 'A' weighted (-85dB unweighted). The Sidechain insert points shall be TRS jack connectors and have an impedance of 10 Kohms. Total Harmonic Distortion shall be .02% @ 0dB, 1 KHz, and the unit shall have a dynamic range of 107dB.

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 gate/compressor/limiter shall be the Australian Monitor DP-1 Dual Dynamics Processor.



Australian Monitor

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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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