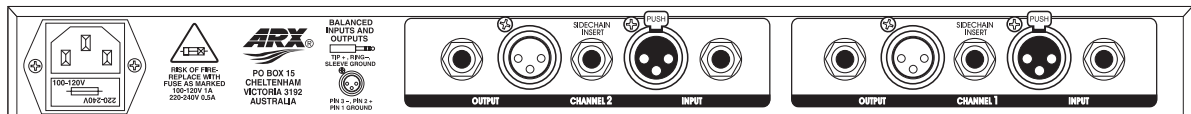
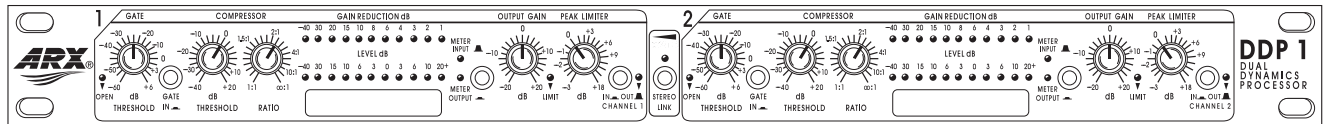


DDP-1

DUAL CHANNEL DYNAMICS PROCESSOR



<http://www.arx.com.au>



• A 'Total Dynamics Control' package

The greater the control that you can exercise over an audio signal, the better the finished product will reflect your concepts. And to give audio engineers more control in less space, ARX has created the DDP-1. It is a dual channel dynamics processor, designed to easily handle any professional audio application, and is housed in a compact, all steel 1 RU chassis.

Each channel of the DDP-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 there is a Stereo Link switch for Master/Slave compressor operation.

The compressor section features proprietary ARX '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 Balanced 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 ARX Multi Q or EQ60).

• Universal AC Power

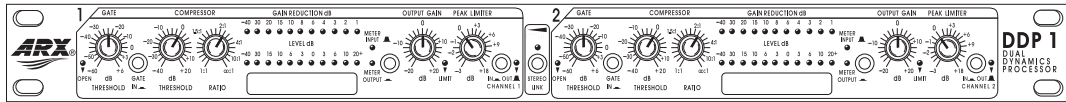
AC power is a universal 100 to 120V or 220 to 240V, and is connected to the unit via a removable power lead and standard 3 pin IEC connector, with built in fuse and voltage selection switch.

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

Features

- Total Dynamics control in a single rack unit package
- Two independent channels of Gate, Compressor and Peak Limiter
- Stereo Link for accurate stereo tracking
- 'Auto-Soft' compression for optimum performance
- 'Industry Standard' controls
- Balanced XLR/ Jack Inputs and Outputs
- Sidechain Insert points
- Intuitive, 'user friendly' layout
- Flawless performance in any audio environment
- Security cover available

DDP-1 Specifications



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 ± 0.4 dB

Signal to Noise ratio

-85 dB Unweighted
-99dB 'A' weighted

Distortion

.02% THD @ 0dB, 1KHz

Dynamic Range

107 dB

Sidechain Insert Impedance

10 Kohm

Gate Section

Attack and Release Times

Program dependent

Threshold

-60dB to +6dB

Attenuation

Preset: -70dB

Compressor Section

Attack and Release Times

Program dependent

Threshold

-40dB to +20dB

Ratio

1:1 to infinity:1

Peak Limiter Section

Threshold

-3dB to +18dB

Ratio

Fixed: infinity:1

Output Gain

-20dB to +20dB

Power Requirements

100/120 V AC

220/240 V AC

Weight

5 lbs/2.2 Kg

Dimensions

19"W x 1 3/4"H x 6"D

482 x 44 x 155mm

Input /Output Connector type

XLR, Balanced Jack

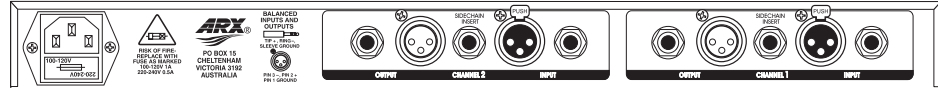
Sidechain Insert Connector

TRS Jack

FRONT PANEL

- Independent Gate, Compressor and Peak Limiter sections
- Threshold, Ratio and Output Gain controls
- 11 LED Gain Reduction display
- 11 LED switchable Input /Output Level display

- Numbered marker panel for labelling compressor assigns
- Status LEDs for all functions
- Hardwire bypass IN/OUT switch
- Stereo Link switch



REAR PANEL

- Balanced Inputs and Outputs, on both XLR and TRS jack connectors.
- Sidechain Insert TRS connector on each channel

- AC input connector, with voltage switch and fuse.

ARCHITECTS' AND ENGINEERS' 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, ± 0.4 dB. 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 ARX DDP-1 Dual Dynamics Processor.

Specifications available on disk



Your ARX dealer is:



<http://www.arx.com.au>

Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.



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