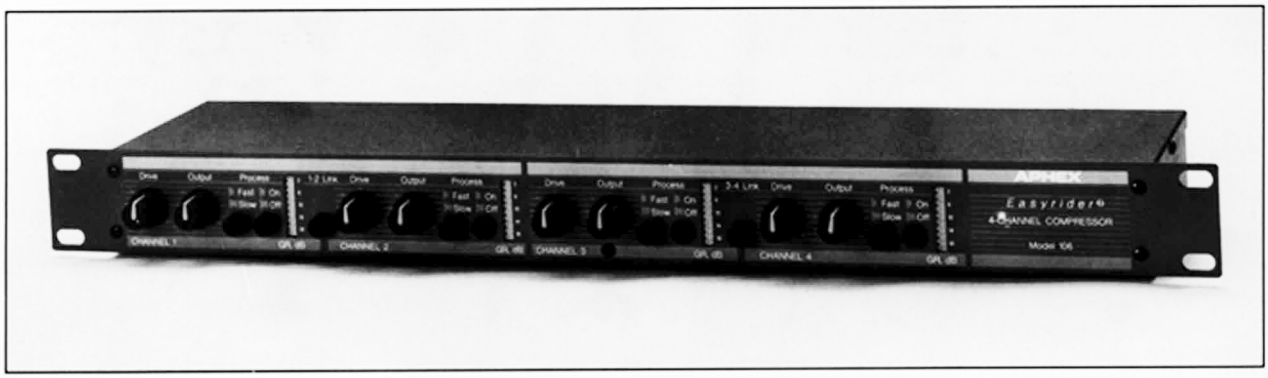
APHEX SYSTEMS

Easyrider™ Four Channel Compressor Model 106



Aphex Systems, Ltd. is the leader for innovative dynamics processing. The Compellor®, Dominator®, Expressor™ are world standards for production, mastering, P.A., and broadcasting. Recognizing that some users may not be able afford those units, Aphex developed a low cost, EASY to use, gain RIDER.

The Easyrider is a four channel compressor which incorporates the ideals of Aphex design-pristine audio path controlled by intelligent detector circuits. The heart of the audio path is the exclusive Aphex Voltage Controlled Attenuator VCA 1001. It outperforms all other VCA's and is one of the reasons that Aphex products sound better than other dynamics processors.

The detector circuits of the Easyrider monitor the peak to average ratio of the input and adjust layered attack and release times automatically. The Easyrider is incredibly easy to use, simple and quick to set up, and sounds great for individual voices, instruments and sub-mixes as well as full program. Its slower time constants allow for openness at the same time the faster time constants control peaks.

FEATURES

Four discrete channels

Aphex VCA 1001

Automatic layered attack and release times

Independent switches for fast or slow processing

20dB gain reduction meter

Linkable pairs for stereo applications

-10dBV/ +4dBu switch on each channel

Independent on/off switches

Power indicator

APPLICATIONS

Recording

Mixing

Mastering

Post production

Sound reinforcement

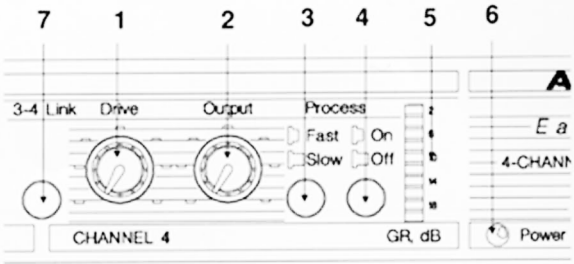
Stage Monitors

Musical Instruments

Conference Rooms

Paging systems

Easyrider Four Channel Compressor Model 106



1. Drive: The threshold of the Easyrider is fixed. The amount of gain reduction is determined by input level, the position of the -10dBV/+4dBu switch and the Drive control. As the Drive control is rotated clockwise there will be more output level and, if the level is over threshold, more gain reduction. As the Drive control is rotated counterclockwise the output level will drop and the gain reduction will release. This control is defeated in the bypass mode.

2. Output: The Output control adjusts the output level after the gain control. It has a range of approximately 30dB. This control should be adjusted so that when there is a nominal "0" Vu input level, the output is equal to the input. This control is defeated in the bypass mode.

3. Fast/ Slow Switch: The attack and release characteristics of the Easyrider are automatically adjusted based upon the texture of the input. The Fast/ Slow switch adjusts the layered time constants from fast to slow. The slow setting is a more transparent sound, perfect for controlling levels without affecting the sound quality. The fast setting "fattens up" the audio, making it punchier and tighter.

4. On/Off: The "On" position sends the signal through the gain control circuitry and engages the metering. The "Off' position puts the channel into hardwire bypass which blanks the meter and defeats all the controls. If the power is turned off, the unit will pass audio in the "off" position only.

5. Meter: The meter is a 10 segment LED bar which indicates 2dB of gain reduction per segment. When the meter is fully lit, there is 20dB or more of gain reduction. If the meter gets dim it indicates that the input is clipping. Either adjust the -10/+4 switch or rotate the Drive control counterclockwise.

6. Power: This LED will indicate when there is power connected to the unit.

7. Link: Channels one and two are linkable to each other and channels three and four are linkable to each other. When channels are linked, whichever channel has the most amount of gain reduction will cause an equal amount of gain reduction in the other channel. The Drive and Output controls still remain independent so they must be matched carefully during set up for stereo operation.

-10dBV/+4dBu Switch (rear panel): This switch should be set in the position which optimizes signal to noise performance. Feed a nominal 0Vu tone or program into the channel and set the switch in the position which gives you approximately 12dB of gain reduction with the drive control set at 12 o'clock.

Specifications

System	
Number of Channels	Four
Stereo Link	CH 1&2, CH 3&4
INPUT	
Type	Servo balanced
Impedance (balanced)	15kΩ (-10), 66kΩ (+4)
Impedance (unbalanced)	7.5kΩ (-10), 33kΩ (+4)
Nominal Operating Level (Drive CCW)	+4dBu or -10dBV
Maximum Input Level	+29dBu (+4) or +14dBV (-10)
CMRR	Greater than 60dB 20Hz to 10kHz
OUTPUT	
Type	Pseudo Balanced
Impedance	56Ω Unbal., 132Ω Pseduo Bal.
Maximum Output Level (+4)	+22dBu
Maximum Output Level (-10)	+10dBu
Frequency Response at -3dB Points	3Hz and 54kHz
Output Noise (+4dBu)	-75dBu (Drive & Output @ 12:00)
Output Noise (-10dBV)	-86dBV (Drive & Output @12:00)
THD Below Threshold	0.005%
1kHz THD Fast Process	0.06%
1kHz THD Slow Process	0.02%
CONTROL RATES	
Attack Rate	Complex, Program Dependent
Release Rate	Complex, Program Dependent
Output Range	30dB
Drive Range	40dB
FUNCTIONS	
Controls	Drive, Output
Switches	Rate, Bypass, Link, +4/-10
Indicators	Gain Reduction Bargraph, Power
I/O Connectors	TRS 1/4" Phone
OTHER SPECIFICATIONS	
Power Source	External Wall Transformer
Power Requirements	24VAC 600mA
Dimensions	19" (482.2mm) x 1.75" (44.4mm) x 5.2" (132mm)
Net Weight	5 pounds (2.27k)

APHEX SYSTEMS 11068 Randall Street ▮ Sun Valley, CA 91352-2621 ▮ (818) 767-2929

Aphex is proudly American...100% owned, engineered and manufactured in the U.S.A.

Aphex is a registered trademark of Aphex Systems, Ltd. Compellor, Dominator, Expressor and Easyrider are all trademarks of Aphex Systems, Ltd. and are covered by U.S. and foreign patents issued and pending.

Aphex Systems is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or shown.

Part No. 02-106-01 Printed in U.S.A.