

## Audio Processor and Channel Shuffler.



### FEATURES

- Analogue & AES options
- Channel swap / mix
- Level adjust
- Phase reversal
- Channel combine

The V1639 module provides swapping and mixing of up to 4 analogue or digital audio channels. When controlled remotely using Viewfind PC control software, a 4 layer, 4 x 1 audio mixer can be implemented with no additional modules. Options are available for all combinations of AES and analogue inputs and outputs. The V1639 has a comprehensive range of audio processing facilities. In front panel (or LOCAL) control mode any of the four input channels can be routed to any of the four output channels. In addition, each output channel can be a mix of some or all input channels. When 2 inputs are routed to a single output an additive mix is performed with a -6dB contribution from each. When combining 3 and 4 input channels the contributions from each are -9.5dB and -12dB respectively.

Independent phase reversal is selectable on each channel input. In remote (or REM) control mode, using Viewfind and/or a V1605 Control Panel, additional functions are available. Each output channel can be generated as a 4 to 1 linear mix of the inputs. Variable gain is provided for each input and output channel pair. This system provides an elegant and economic solution for operations such as tape duplication and dubbing. An analogue video reference input allows AES outputs to be made 'clock synchronous' with the video frame rate. Alternatively the AES outputs can be synchronised to an external AES reference. This has the additional benefit of aligning the AES frame sequence. All standard sampling rates are supported.

# Technical Specification

## AES Audio Inputs (2 + reference\*)

Sampling	32, 44.1 or 48kHz (channel independent)
Format	AES-3-1992
Number	Two AES channel pairs
Impedance options	75 ohm unbalanced BNC AES-3id (1995)
Or	110 ohm balanced screw-terminal AES-3 (1992)
	(Selected option must be same as outputs)
Cable source length	Up to 250m

\* Link Selectable 110/75 ohm or Hi-Z termination for loop through

## AES Audio Outputs (2 )

Sampling	32, 44.1 or 48kHz
Format	AES-3
Impedance options	75 ohm unbalanced BNC AES-3id (1995)
Or	110 ohm balanced screw-terminal AES-3 (1992)
	(Selected option must be same as input(s))
Cable drive length	Up to 250m

## Analogue Audio Inputs (2 stereo)

Resolution	24-bit (DSP quantises down to 20-bit - link selectable)
S/THD+N	100dB
Dynamic range	110dB
Max input	14dBu to +28dBu in 1 dB steps ->0dBFS
Input impedance	20k
Input format	Balanced

## Analogue Audio Outputs (2 stereo)

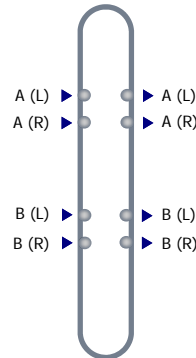
Resolution	24-bit (DSP quantises down to 20-bit - link selectable)
S/THD+N	100dB
Dynamic range	100dB
Max output	0dBFS ->14dBu to +28dBu in 1dB steps
Output impedance	50
Output format	Balanced

## Analogue Audio Outputs (2 stereo)

Level	1Vp-p analogue video
Format	625/50Hz, 525/60Hz black & burst
Connector	BNC
Impedance	77ohm

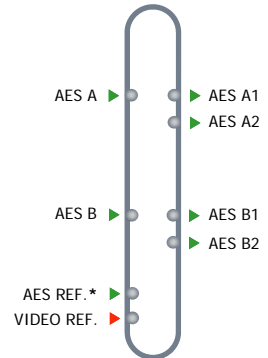
## V1639/AA

Analogue Processor/Shuffler



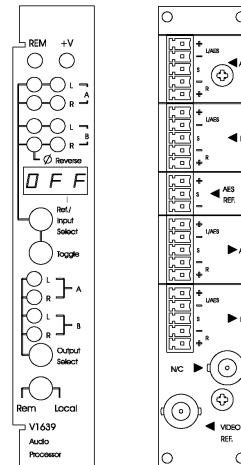
## V1639/DD

AES Processor/Shuffler



## Controls

Input Channel Select	On, Off, Phase Reverse
Input Channel Level	-16dB to +15dB
Mix Gain	-16dB to +15dB
Output Channel Level	-16dB to +15dB
Reference Select	A, B, Free, AES, Video
Sample Rate	Select
Test Tone	Off, A Only, B Only, Both
Preset Select	1 to 7



## Ordering Information

Please specify type required when placing order.

Model	Description	3RU unbalanced	3RU balanced	1RU unbalanced	1RU balanced
V1639/AA	Dual Stereo Analogue Audio Processor and Channel Shuffler	V16AR3W	V16AR3H	V16AR1W	V16AR1H
V1639/AD	Dual Stereo Analogue to AES Audio Processor and Channel Shuffler	V16AR3M	V16AR3P	V16AR1M	V16AR1P
V1639/DA	Dual AES to Stereo Analogue Audio Processor and Channel Shuffler	V16AR3L	V16AR3H	V16AR1L	V16AR1H
V1639/DD	Dual AES Audio Processor and Channel Shuffler	V16AR3N	V16AR3P	V16AR1N	V16AR1P

All Pro-Bel's quoted prices for interface modules include the supply of one suitable rear module. Please specify type required when placing order. Note: Special versions of rear module are available on request.

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