

# V1635/VA/VD

## Dual Channel Delay with Gain Control.



### FEATURES

- Analogue levels to +28dBu (/VA)
- 32, 44.1, 48kHz sampling (/VD)
- Automatic 32, 44.1, 48kHz lock (/VD)
- Variable to 1.25s
- Test tone
- Gain control
- AES & Video references (/VD)
- Re-sampling to reference (/VD)

The V1635 module provides audio delay for up to 2 AES / stereo analogue channels. The input and output configuration can be selected by choosing the appropriate option. Analogue in & out, digital in & out are possible dependent on option chosen. Its primary function is to maintain correct audio timing w.r.t. video for a wide range of system applications. A variable delay from 0 – 1.25s can be set from the front panel or remotely from Viewfind and/or a V1605 Control panel. Resolution is in 1ms steps up to 1.25s.

On those options with AES outputs, an analogue video reference input allows the 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 block sequence. All channel status bits and validity flags are passed unaltered. User data bits are set to zero. All standard sampling rates are supported. AES inputs can be at different sampling rates from each other and from the reference.

Independent left and right channel gain controls are provided for both stereo pairs.

# Technical Specification

## Analogue Audio Inputs (2 stereo) (/VA)

Resolution 24-bit (DSP quantises down to 20-bit - link selectable)  
 S/THD+N < -85dB  
 Dynamic range 100dB  
 Max input 14dBu to +28dBu in 1dB steps -> 0dBFS  
 Input impedance 20k  
 Input format Balanced

## Analogue Audio Outputs (2 stereo) (/VA)

Resolution 24-bit (DSP requantises down to 20-bit - link selectable)  
 S/THD+N < -85dB  
 Dynamic range 100dB  
 Max input 0dBFS -> 14dBu to +28dBu in 1 dB steps  
 Output impedance 50  
 Output format Balanced

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

Sampling 32, 44.1 or 48kHz (channel independent)  
 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 output (s))

Cable source length Up to 250m

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

## Adjustment Range

Variable delay 0 - 1.25 Seconds  
 Gain -16dB to +15dB in 1dB steps

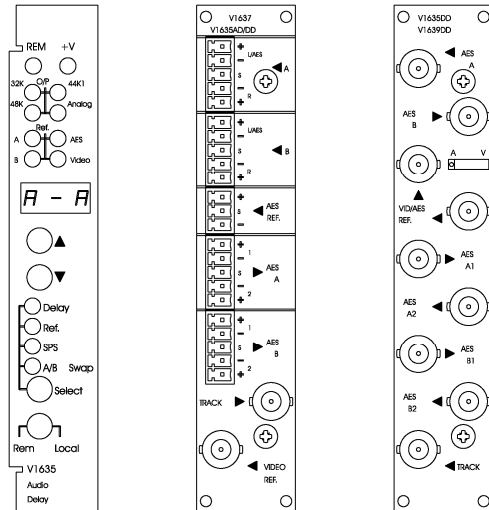
## AES Audio Outputs (2) (/VD)

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

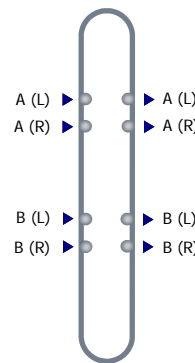
## AES Audio Outputs (2) (/VD)

Level 1Vp-p analogue video  
 Format 625/50Hz, 525/60Hz black & burst  
 Connector BNC  
 Impedance 75



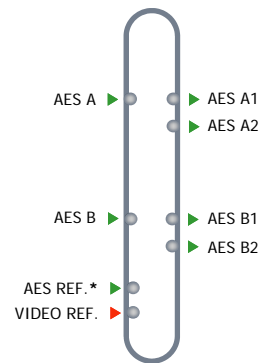
### V1635/VA

Analogue Variable Delay



### V1635/VD

AES Variable Delay



## Controls

Delay Up to 2.5s  
 Reference Select Free, AES, Video  
 Sample Rate Select  
 A/B Swap On / Off  
 Test tone Off, A, B, Both  
 Input Gain (per channel) -16dB to +15dB

## Ordering Information

Please specify type required when placing order.

V1635/VA	Dual Stereo Analogue Delay	V16AR3H	3RU balanced	V16AR1H	1RU balanced
V1635/VD	Dual AES Delay	V16AR3N	3RU unbalanced	V16AR1N	1RU unbalanced
		V16AR3P	3RU balanced	V16AR1P	1RU balanced

All Pro-Bel's quoted prices for interface modules include the supply of one suitable rear module. Please specify type required when placing order.

WWW.PRO-BEL.COM

UK  
 +44 (0) 1189 866 123

USA  
 +1 631 549 5159

France  
 +33 (0) 1 45 18 39 80

Hong Kong  
 + 852 2891 9123

