

## Stereo Analogue/AES Tracking Delay with Gain Control.



### FEATURES

- Selectable analogue or AES input
- Analogue & AES outputs
- Analogue levels to +28dBu
- Selectable 24/20-bit conversion
- 32, 44.1, 48kHz sampling
- Variable delay to 2.5s
- Tracking delay to 40ms
- AES & Video references
- Test tone
- Gain control

The V1635/S module provides audio delay for a single analogue stereo or AES input, which is user selectable. Both analogue stereo and AES outputs of the selected input are provided. The output delay is the sum of a variable and tracking delay. 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 - 2.5s can be set from the front panel or remotely from Viewfind and/or a V1605 Control Panel. Resolution is in 1ms steps up to 2.5s. A Delay Pulse input (TTL) provides an additional tracked delay of up to 40ms. This input is compatible with an output from a V1640 or V1641 SDI Frame Synchroniser.

An analogue video reference input allows the AES output to be made 'clock synchronous' with the video frame rate. Alternatively the AES output can be synchronised to an external AES reference. This has the additional benefit of aligning the AES block sequence. All standard sampling rates are supported. Independent left and right channel gain controls are provided for both the AES and stereo analogue input.

# Technical Specification

## Analogue Audio Input (1 stereo)

Resolution	24-bit (DSP quantises down to 20-bit - link selectable)
S/THD+N	< -90dB
Dynamic range	100dB
Max input	14dBu to +28dBu in 1dB steps -> 0dBFS
Input impedance	20k
Input format	Balanced

## AES Audio Input (1)

Sampling	32, 44.1 or 48kHz
Format	AES-3
Impedance options	75 ohm unbalanced BNC AES3-id (1995) 110 ohm balanced screw terminal AES-3 (1992)
Or	(Selected option must be same as output(s))
	Up to 250m

Cable source length

## AES Audio Output (1 + Copy)

Sampling	32, 44.1 or 48kHz
Format	AES-3
Impedance options	75 ohm unbalanced BNC AES3-id (1995) 110 ohm balanced screw terminal AES-3 (1992)
Or	(Selected option must be same as input(s))
	Up to 250m

Cable drive length

## Analogue Audio Output (1 Stereo)

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 1dB steps
Output impedance	50
Output format	Balanced

## AES Reference Input/Output\*

Sampling	32, 44.1 or 48kHz (channel independent)
Format	AES3-id (1995)
Impedance options	110 ohm balanced screw terminal AES-3 (1992)
Or	(Selected option must be same as AES inputs/ outputs)
	Up to 250m

Cable source length

## Video Reference Input

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

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

## Tracking Pulse Input

Level	TTL (active high)
Range	0 - 40ms
Connector	BNC
Impedance	High Z (>10k ohms)

## Adjustment Range

Variable delay	0 - 2.5 seconds
Tracking delay	0 - 40ms
Gain	-16dB to +15dB in 1dB steps

## Ordering Information

V1635S	Stereo Analogue/AES Delay with Gain Control
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All Pro-Bel's quoted prices for interface modules include the supply of one suitable rear module. Please specify type required when placing order.

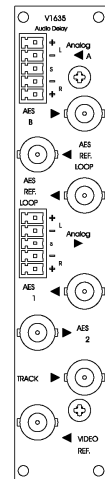
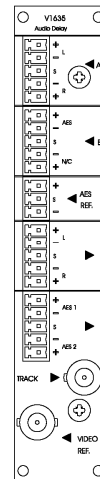
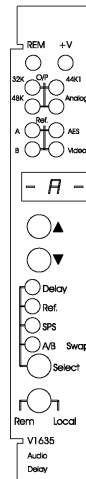
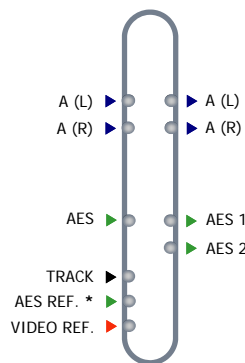
V16AR3Q	3RU balanced
V16AR1Q	1RU balanced
V16AR3K	3RU unbalanced
V16AR1K	1RU unbalanced

Note: Special versions of rear module are available on request.

V1635/S  
ADC - 20 Bit

Controls  
Delay  
Reference Select  
Sample Rate  
A/B Swap  
Test Tone  
Input Gain (per channel)

Up to 2.5s  
Free, AES, Video  
Select  
On / Off  
Off, A, B, Both  
-16dB to +15dB



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