

## SDI Frame Synchroniser.



### FEATURES

- 2 x 1 SDI input switch
- Auto 625/525 line locking
- 10-bit processing
- H & V timing adjustment
- Ancillary data pass or blank
- Audio tracking pulse output
- Minimum delay mode
- Looping reference input
- Video test pattern generator

The V1643 SDI Frame Synchroniser is based around a 10-bit digital frame store and provides synchronisation of a serial component digital signal to an analogue video reference. It includes a 2 x 1 SDI input switch which is useful, for instance, when switching between the SDI output of an ADC and a direct SDI signal source. It provides synchronisation of the selected SDI signal to an external analogue video reference. Both horizontal and vertical offset from the reference can be user adjusted and the output can be set to go to black or to freeze if the input fails. A 'Minimum Delay' mode is provided. In this mode the reference input is ignored and the delay through the unit is less than a few microseconds. The unit can automatically switch to 'Minimum Delay' mode if the input system standard [625 line 50Hz or 525 line 60Hz] is different to that of the reference.

# Technical Specification

## Serial Inputs (2)

Standard	ITU-R B1601
Format	EBU Tech 3267-E and SMPTE 259M-C
Sampling	4:2:2, 10 bit
Line/field rate	525/60 and 625/50
Connector	BNC
Impedance	75 ohm
Return loss	>15dB, 5-270MHz
Cable equalisation	0-250m (Belden 8281)
Data rate	270Mb/s

## Serial Outputs (3)

Format	As input
Connector	BNC
Impedance	75 ohm
Return loss	>15dB, 5-270MHz
Cable drive	Up to 250m (Belden 8281)

## Analogue Reference

Signal	Colour black, 1V p-p composite
Connector	BNC
Impedance	75 ohm or Hi Z for looped output
Return loss	>35dB to 5.5MHz

## Delay Pulse/Reference Loop Output

Connector	BNC
Delay pulse:	TTL
Level	0 to 1 fame, repeat rate is 2 frames
Range	
Reference loop:	
Signal	As reference input

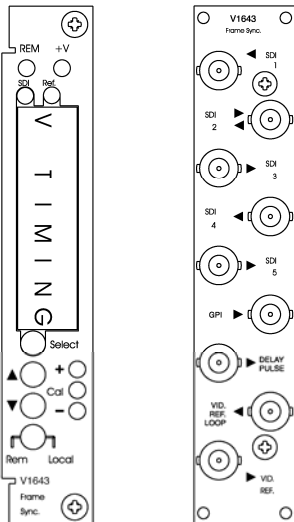
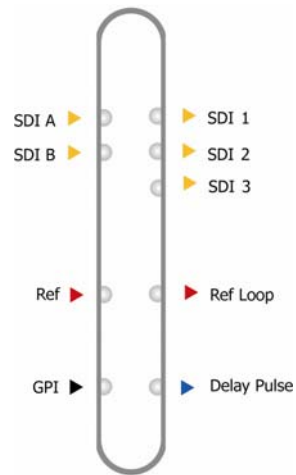
## Ordering Information

V1643	SDI Frame Synchroniser
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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.

V16VR3T	3RU
V16VR1T	1RU

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



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