



V1647 & V1647F

SDI Picture Aspect Ratio Converter

FEATURES

- Automatic 625/525 line locking
- 4:3, 14:9, 16:9 aspect ratios
- User programmable aspect ratios (V1647 only)
- Bi-directional operation
- 10-bit processing
- Transparent to ancillary data
- Remote control options: GPI/RS485/V1605/Viewfind

HIGH PERFORMANCE ASPECT RATIO CONVERTERS



Operation in 625 or 525 line standards is automatic. They accept a component serial digital input with a picture aspect ratio of 4:3 or 16:9 and converts it to either 14:9 or 16:9 and 4:3 or 14:9 respectively. In the case of the V1647, additional aspect ratios, picture centring, cropping and zoom factors (0.5 to 2) can be set up and stored as presets either via the RS 485 port using the Vnetbrow PC software (supplied with the module) or from Viewfind or a V1605 control panel over DARTnet. The presets can be recalled from the module front panel or remotely using any of the remote control options (see CONTROL table).

The V1647F provides conversion between the standard aspect ratios only. Unlike the V1647, user configurable presets and picture sizing adjustments are not provided.

Both units use very high performance filters providing a broadcast quality output.

The insertion delay is one frame. This is, however, user adjustable to ± 8 lines in steps of one line. A Bypass mode is provided. The delay in Bypass mode matches the conversion delay. The units are transparent to ancillary data, which is also delayed to match the conversion delay.

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Technical Specification

Serial Input

Format	Compatible with EBU Tech 3267/ANSI T14.223
Connector	BNC
Impedance	75
Return loss	>15dB, 5-270MHz
Cable	0-200m (Belden 8281)
Data rate	270Mb/s

Conversion

Insertion delay	1 video frame (adjustable by +/- 8 lines in 1 line steps)
SDI ancillary data	Transparent (delay matches conversion delay)
Vertical interval data	Transparent (delay matches conversion delay)
Bypass delay	Matches conversion delay

Serial Outputs (3)

Connector	BNC
Impedance	75
Return loss	>15dB, 5-270MHz
Amplitude	800mV p-p (terminated)
DC offset	0V +/-0.5V
Rise and fall times	0.75 - 1.5ns
Drive capability	Up to 250m (Belden 8281)

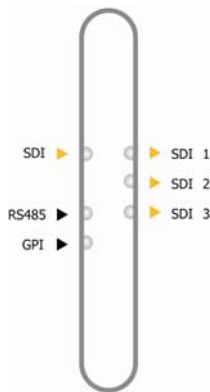
Ordering Information

V1647	SDI picture aspect ratio converter
V1647F	SDI picture aspect ratio converter

All Pro-Bel's quoted prices for interface modules include the supply of one suitable rear module. Both the V1647 and V1647F use the same rear modules. Please specify type required when placing order.

V16VR3D	3RU
V16VR1D	1RU

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

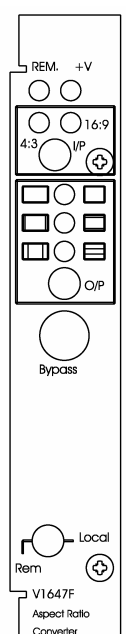
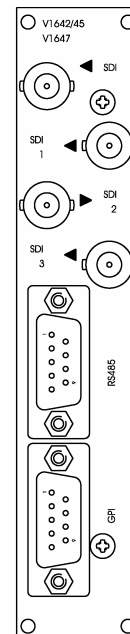
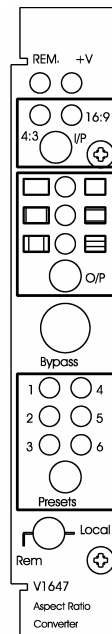


Control (V1647)

Type	Adjustment of preset settings	Recall of standard & preset settings
Viewfind PC software (over DARTnet)	Yes	Yes
V1605 control panel (over DARTnet)	Yes	Yes
RS485 (Vnetbrow PC software)	Yes	Yes
GPI	No	Yes
V647 (dedicated panel via GPI)	No	Yes
Module front panel	No	Yes

Control (V1647F)

Type	Adjustment of preset settings	Recall of standard & preset settings
Viewfind PC software (over DARTnet)	No	Yes
V1605 control panel (over DARTnet)	No	Yes
RS485 (Vnetbrow PC software)	No	Yes
GPI	No	Yes
V647 (dedicated panel via GPI)	No	Yes
Module front panel	No	Yes



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