

V1624, V1624K & V1624/M



SDI to YPbPr, SDI to Y/S & SDI to RGB.



FEATURES

- 1 or 2 YPbPr outputs (V1624)
- 1 or 2 Y outputs (V1624K)
- 1 RGBS & 1 YPbPr output (V1624/M)
- Rec. 601 filters
- Up to 4 SDI outputs

The V1624 DAC module provides precision 10-bit conversion of a serial digital input signal to a YPbPr analogue component output conforming to SMPTE/EBU N10 levels. The addition of an optional matrix sub-module (as in V1624/M) permits conversion of the main output to RGB format.

The V1624K DAC module provides precision 10-bit conversion of a serial digital input signal to an analogue monochrome Y output conforming to SMPTE/EBU N10 level, and is normally used to produce a digital key signal.

Four equalised and re-clocked SDI outputs are provided. These are 'active looped' outputs from the SDI input and maintain the colour difference signal levels present on the SDI input.

Up to three of the serial digital outputs can be disabled to provide an additional analogue output (YPbPr in the case of the V1624 or V1624/M and Y/S in the case of the V1624K).

Selection of analogue or digital blanking is provided to allow legally blanked signals in the analogue domain or to maintain the full picture content from the digital domain. Full specification CCIR 601 filters are used to ensure the maximum transparency for programme path applications.

Technical Specification

Serial Input

Standard	ITU-R BT601
Format	EBU Tech 3267-E and SMPTE 259M-C
Sampling	4:2:2, 10 bit
Line/field rate	525/60 or 625/50
Connector	BNC
Impedance	75
Return loss	>15dB, 5-270MHz
Cable equalisation	0-250m (Belden 8281)
Data rate	270Mb/s

Serial Outputs (up to 4)

Format	As input
Return loss	>15dB, 5-270MHz
Rise & fall times	0.75 - 1.5ns
Cable drive capability	Up to 250m (Belden 8281)

Output Levels

YPbPr (SMPTE/EBU)	
Level Y	1V p-p
Pb Pr	±350mV, 100% saturation
RGB	
RGB	700mV p-p non-composite
Sync	2V p-p
Or RB	700mV non-composite
G	1V p-p composite (sync or green)
Or RGB	1V p-p composite
Sync	2V p-p

Video Performance

Impedance	75 BNC
Return loss	>35Db TO 5.5mhz
Linearity	<1.0%
S/N ratio	>68dB unweighted (10k-5MHz)
Frequency response	
Y	±0.1dB to 5.5MHz
Pb, Pr (V1624 & V1624/M)	±0.1dB to 2.5MHz
R,G,B (V1624/M)	±0.15dB to 5.5MHz

Ordering Information

V1624	SDI to YPbPr
V1624K	SDI to Y + S
V1624/M	SDI to YPbPr/RGB with matrix sub-module

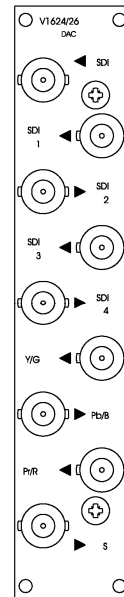
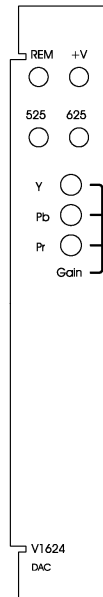
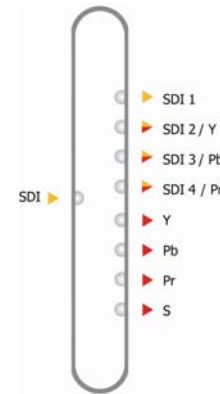
All Pro-Bel's quoted prices for interface modules include the supply of one suitable rear module. V1624, V1624K & V1624/M all use the same rear module type. Please specify type required when placing order.

V16VR3C	3RU
V16VR1C	1RU

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

Controls

Status monitoring only



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