

V1627 & V1628



SDI to PAL/NTSC/YC & SDI to PAL/NTSC/YPbPr.



FEATURES

- Multistandard PAL & NTSC formats
- Y/C (v1627) and YPbPr (V1628)
- Configurable outputs
- Dynamic rounding of 10-bit input (for PAL/NTSC and Y/C outputs)
- Vertical interval pass or blank

The V1627 DAC module provides conversion of a serial digital input signal to analogue composite NTSC or PAL format for monitoring purposes. The V1627 can be configured to give either five composite or three composite and one Y/C output.

The V1628 DAC module provides conversion of a serial digital input signal to analogue composite NTSC or PAL, YPbPr and YC formats for monitoring purposes. The V1628 can be configured to give either 5 composite outputs, or 1 YC and 3 composite, or 2 composite and 1 YPbPr, or 1 YC and 1 YPbPr.

Both modules will automatically detect the incoming line rate and convert to the appropriate standard, while additional switches are provided for selection of an internal test ramp signal, NTSC set-up and PAL Standard selection.

Technical Specification

Serial Input

Standard	ITU-R BT 601
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
Return loss	>15dB, 5-270MHz
Cable equalisation	0-250m (Belden 8281)
Data rate	270Mbps

Serial Output

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

Video Outputs (5)

Standards	PAL-B,G,I; PAL-M; PAL-N; NTSC (V1627) PAL-B,G,I; PAL-M; PAL-N; NTSC YPbPr (V1628)
Impedance	75
Return loss	>35dB to 5.5MHz

Performance

Level accuracy	<0.1dB
Resolution	8 bit PAL, NTSC & Y/C 10 bit YPbPr
Non-linearity	<5%
SC/H phase	<±0.25dB to 5.5MHz
S/N ratio	
Frequency response	

Internal Controls

Standard select for P|AL-M, PAL-N
NTSC set up on/off
Composite/YPbPr or Y/C output
Test ramp on/off

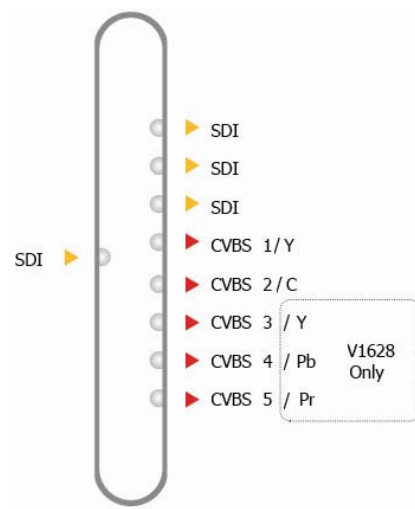
Ordering Information

V1627	SDI to PAL/NTSC/YC
V1628	SDI to PAL/NTSC/YPbPr/YC

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

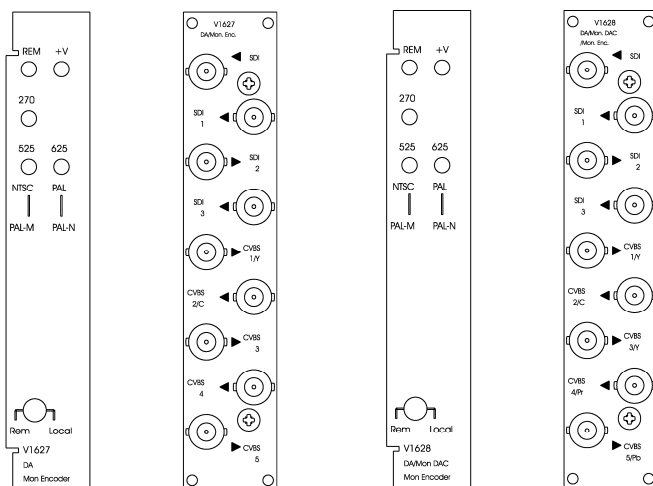
V16VR3B	3RU
V16VR1B	1RU

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



Controls

Standard Select	PAL I/PAL N/PAL M/NTSC/NTSC J
Dynamic Rounding	On / Off
Vertical Interval Blanking	On / Off
Horizontal Interval Blanking	On / Off (V1628 only)



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