

## V1682

### Video and Audio Line Up and IDent (VALID) Reader.



#### FEATURES

- Use for lip sync test with V1681
- Audio embedding/de-embedding function

The V1682 is designed to operate in conjunction with the V1681 VALID Generator. It can detect the timing difference on the VALID signal, between audio and video, and can display this directly on its front panel, or via the DART remote control system, or it can be 'burnt in' to the output video.

When used with DART, it is possible to apply this difference in timing as a delay on an associated audio delay unit (e.g. V1635 range).

A brochure, describing the operation of both the V1682 VALID Reader and the V1681 VALID Generator provides more detailed information.

# Technical Specification

## Serial Input

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 (2)

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 ohms or Hi Z for looped output
Return loss	>35dB to 5.5MHz

## Audio Embedding Format

Standard & level of operation	SMPTE 272M, Levels A, B and C
Sub-module options: Audio Input/Output (Suffix /AA or /DD, /AD or /DA)	

## Analogue Audio Inputs (2 stereo) - Options AA & AD

Resolution	24-bit
S/THD+N	<-85dB
Dynamic range	+/-105dB
Max input	12dBu to +24dBu in 1dB steps ->0dBFS
Input impedance	20k ohms
Input format	Balanced

## Ordering Information

V1682	Video and Audio line up and ident (VALID) reader
V1681/AA	VALID signal reader with analogue audio I/O
V1681/AD	VALID signal reader with analogue audio inputs & AES outputs
V1681/DA	VALID signal reader with AES inputs and analogue audio outputs
V1681/DD	VALID signal reader with AES I/O

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:

V16VR3L 3RU                      V16VR1L 1RU

Note: Special versions of rear module are available on request

## Digital Audio Inputs (2) - Options DD & DA

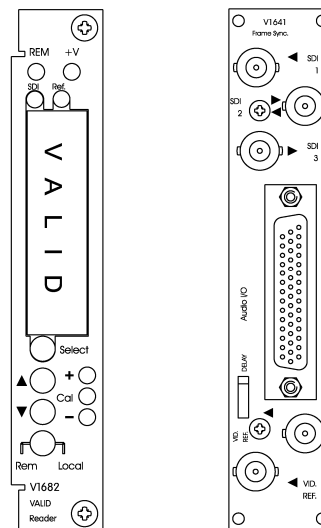
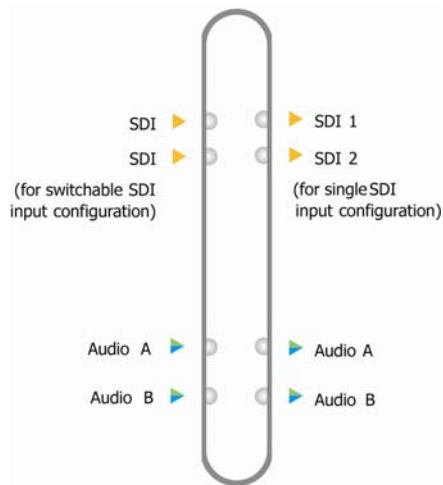
Audio format	AES-3
Channels	2 AES/EBU data streams
Impedance options	75 ohm unbalanced or 110 ohm balanced screw terminal

## Analogue Audio Outputs (2 stereo) - Options AA & DA

Resolution	24-bit
S/THD+N	<-85dB
Dynamic range	+/-105dB
Max output	0dBFS ->12dBu to +24dBu in 1dB steps
Output impedance	<50 ohm
Output format	Balanced

## Digital Audio Outputs (2) - Options DD & AD

Audio format	AES-3
Channels	2 AES/EBU data streams
Impedance options	75 ohm unbalanced or 110 ohm balanced screw terminal



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