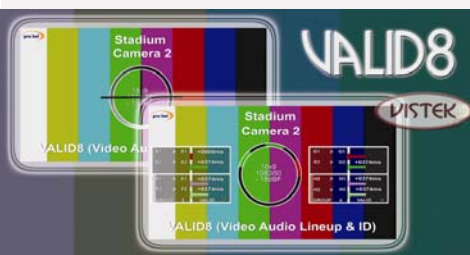


HD VALID8



Video/Audio Line-up & Identification.



FEATURES

- Compatible with all major SD video formats
- Checks for lip-sync errors - uses ultra-reliable VALID signal format
- Ideal line up/ident tool - generates bars & audio test tones



2007 Royal
Television Society
Innovation Award



NAB 2008
Broadcast
Engineering Pick
Hit Award

VALID8 is an enhanced version of Pro-Bel's award winning **VALID** (Video/Audio Lip-sync & Identification) system. The current VALID system comprises of a V1681 Generator module and a V1682 Reader module with optional sub-modules for analogue or AES audio inputs and outputs. In terms of the video test signal these are SD-SDI devices only that support just 4 analogue (or 2 AES) audio channels. Video ID text can only be changed by means of individual character selection via the front panel of the Generator.

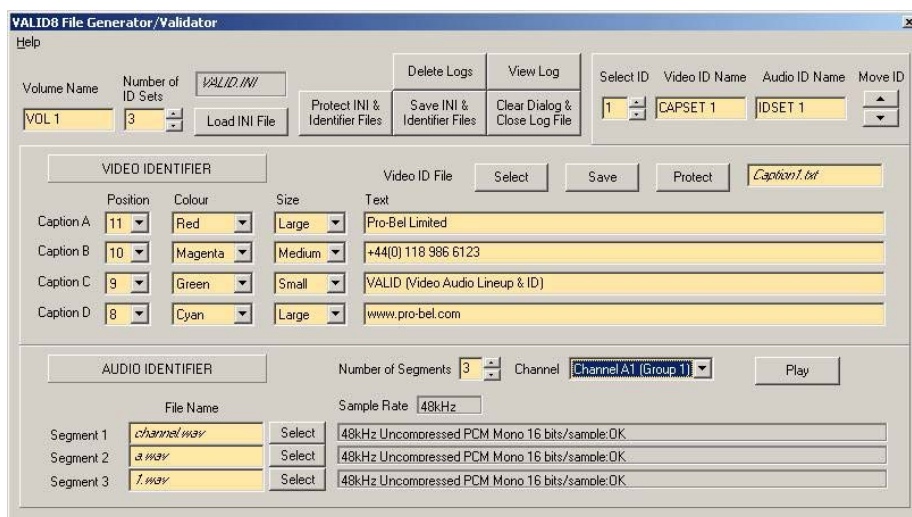
The new VALID8 system now supports both HD-SDI & SD-SDI formats including 1080i 50/59.94Hz, 720p 50/59.94Hz, 625 line 50Hz and 525 line 59.94Hz. Like VALID the output format/standard automatically switches to the same as that of the Program input. The default format is user selectable when the Generator is in 'stand-alone' or 'free-run' mode. A further option exists to lock the test signal output to an external Bi-level or Tri-level analogue reference signal.

Additional connectivity is provided for synchronisation of multiple Generators such that the in-screen video references ('Black Flashes') can be co-timed. Two BNC connectors on the rear panel of the Generator marked SYNC. and SYNC. LOOP provide an easy interconnect mechanism using TTL signal levels.

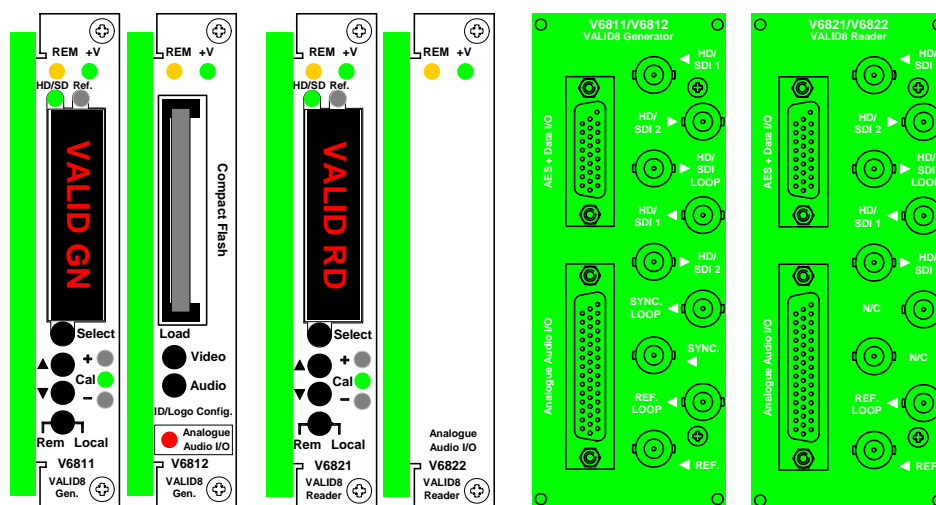
The number of audio channels (inputs and outputs) has been increased from 4 to 8 (4 Stereo). Complete separate audio modules (optional) for both the Generator and the Reader provide co-timed external analogue audio and AES inputs and outputs. Unlike VALID there is no need to change sub-modules.

On the input side of the Generator the user can select from analogue pairs or AES inputs for each of the 4 external program channel pairs. Both the Generator and the Reader will provide AES and analogue audio outputs of the 4 selected input channel pairs or, of course, the audio test tones. With regard to embedded audio VALID8 works like VALID, except that the audio test tones occupy 2 groups (selectable) rather than just a single group. In program input mode, when embedded audio is selected rather than external audio, all 4 Groups (16 Channels) are passed including all other ancillary data.

VALID provides up to 4 lines of identification text to be superimposed on the Video test signal(s). These can only be changed by means of individual character selection via the front panel of the module. No Audio identification facility exists. This is still the case for the VALID8 Generator when only purchasing the V6811 video module (+ embedded audio). When the V6812 audio module is also purchased identification data, both video and audio, can be loaded from Compact Flash via the V6812 front panel. A simple proprietary software program allows compilation of the Flash memory on a PC with a PCMCIA port.



Front and Rear Panel Views



Technical Specification

V6811 / V6821

Serial Digital Inputs

Standards	2 (Switchable) SMPTE 259M (SD), SMPTE 292M (HD)
Line/Field Rates	1080i/50Hz, 1080i/59.94Hz 720p/50Hz, 720p/59.94Hz 576i/50Hz, 480i/59.94Hz
Detection	Automatic
Connectors	BNC
Impedance	75 Ohms
Return Loss	> 15dB, 5MHz – 1.5 GHz
Cable Equalisation SD-SDI, ASI	Automatic 0-200m @ 270Mb/s (Belden 8281)
Cable Equalisation HD-SDI	Automatic 0-100m @ 1.485Gb/s (Belden 1694)

Serial Digital Outputs

Standards	2 Processed + 1 Active Looped from Input
Line/Field Rates	As Inputs
Connectors	As Inputs
Impedance	BNC
Return Loss	75 Ohms
Cable Drive SD-SDI, ASI	> 15dB, 5MHz – 1.5 GHz
Cable Drive HD-SDI	200m @ 270Mb/s (Belden 8281) 100m @ 1.485Gb/s (Belden 1694)

Sync Input (V6811 only)

Type	1 + Sync Loop
Connectors	TTL
Impedance	BNC Hi Z, >10KOhms

Reference Input

Type	1 + Loop
Level	Analogue SD Bi-Level or HD Tri Level (Automatic)
Connectors	1 Vp/p
Impedance	BNC
Return Loss	Hi Z, requires 75 Ohm termination > 35dB to 5MHz

V6812 / V6822

AES Inputs

Sampling	4
Format	48KHz
Processing	AES-3
Connector	24 Bit
Impedance	HD D Type (26 Way)
Cable Equalisation	110 Ohm balanced Up to 250m

AES Outputs

Sampling	4
Format	48KHz
Processing	AES-3
Connector	24 Bit
Impedance	HD D Type (26 Way)
Cable Drive	110 Ohm balanced Up to 250m

Analogue Audio Inputs

S/THD + N	8 (4 stereo)
Dynamic Range	<-85dB
Maximum Input Level	>100dB
Connector	+14dBu to +24dBu in 1dBu steps
Impedance	HD D Type (47 Way) >20KOhms

Analogue Audio Outputs

S/THD + N	8 (4 stereo)
Dynamic Range	<-85dB
Maximum Output Level	>100dB
Connector	+14dBu to +24dBu in 1dBu steps
Impedance	HD D Type (47 Way) 50 Ohms

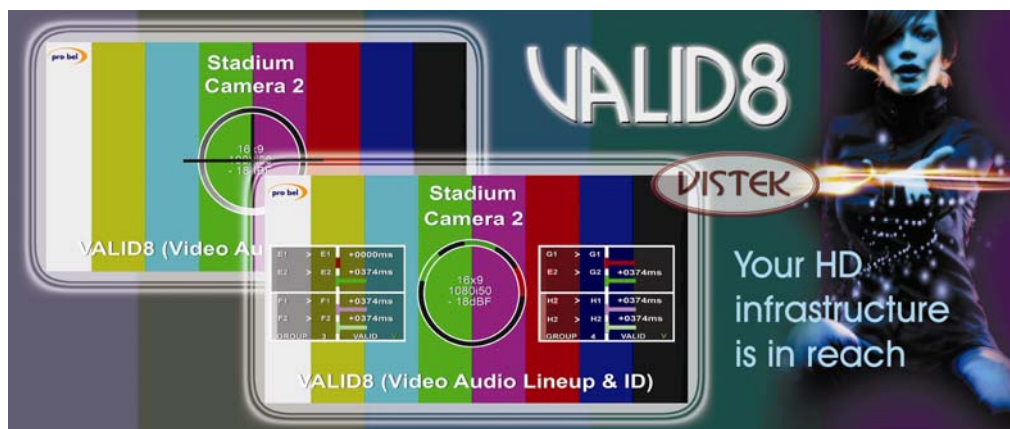
Ordering Information

Generator

V6811	HD-SDI/SD-SDI VALID8 Test Signal Generator with embedded audio only.
V6812	VALID8 Generator Audio I/O & Compact Flash Reader.
V161HR3H	3RU Rear Module (Dual Width for V6811+V6812).

Reader

V6821	HD-SDI/SD-SDI VALID8 Reader with embedded audio only.
V6822	VALID8 Reader Audio I/O.
V16HR3H	Rear Module (Dual Width for V6821+V6822)



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