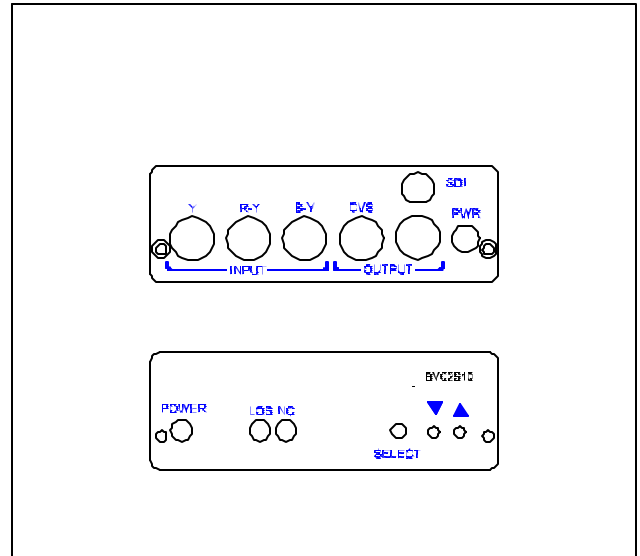


Multi-Standard Component to 10-Bit Serial Digital Converter

The BVC2SD10 converts NTSC or PAL-B YUV (Y, B-Y, R-Y) component analog video to SMPTE 259M Serial Digital (CCIR 601) video. A rotary mode selector and two momentary increment and decrement push buttons allow for input standard selection as well as individual component level controls. In addition, the unit features Auto-Calibration (Auto-Cal), and a composite monitor output. With Auto-Cal selected, and either increment or decrement button pushed, the unit will automatically calibrate output Y, U, and V levels to broadcast standard.



SPECIFICATIONS:

- Accepts analog component (YUV) NTSC and PAL-B video (output standard same as input standard)
- Dual Output NTSC or PAL-B 10-Bit SMPTE 259M Serial Digital (CCIR 601) video.
- Analog composite monitor Output
- Individual Y, U, and V proc amp level control
- One Touch Auto-Calibration with test signal input
- Professional 75 ohm BNC input and output connectors
- Stand-alone, or rack mount four units across with Keywest 19" rack kit (kit not included)
- 5 VDC operation (wall transformer included)
- 80dB typical SNR
- 5.8 MHz typical luma NTSC bandwidth (to 3dB)
- 7nS typical frame input to output delay
- Ambient operating temperature 0 to + 70 °C

ORDERING INFORMATION

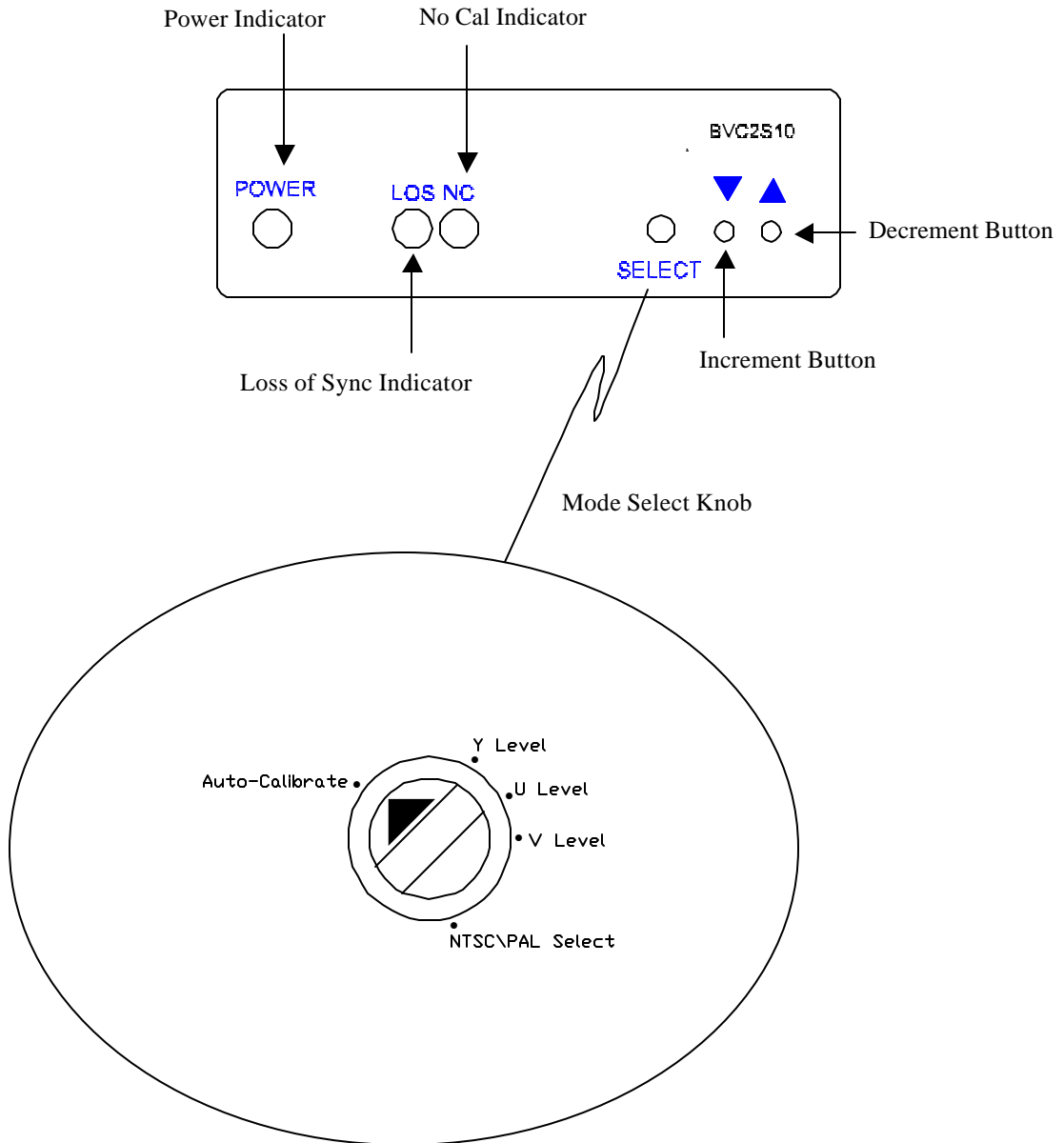
Part #	Options
BVC2SD10	Rack Kit, Rack Kit Blanks

APPLICATIONS

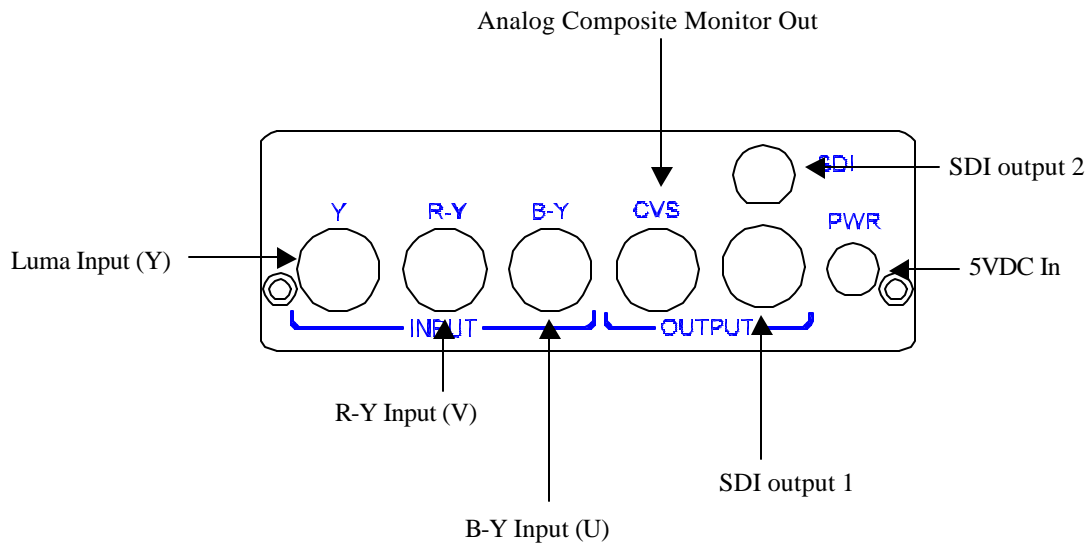
- In studio conversions
- Truck/van conversions (convert Beta Cam to 10-Bit SDI)
- Utilize SDI equipment with current analog equipment in any situation
- Transmit video noise-free over distances (with single cable)
- Reduce SDI conversion budget by avoiding replacement of entire suite

OPERATING INSTRUCTIONS

Front Panel Controls & Indicators



CONNECTIONS

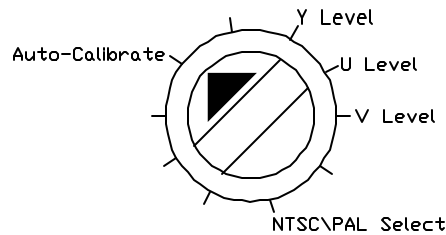


All video connections to be made with industry standard BNC connectors

Functions

Rotary Mode Switch

The rotary mode switch is a 10-detent switch. The BVC2SD10 uses only five of those detents, as shown in the illustration on the previous page. On the unit, each detent is marked by a white dot. The following illustration will show you where each detent is in relation to the others, but keep in mind the unit is marked only with dots for the useful detents:



Auto-Calibrate

NOTE: Auto-Calibrate functions properly only if color bar test signals are input to the unit (NTSC use SMPTE 75% bars; PAL-B use EBU 100% bars). **DO NOT OPERATE AUTO-CALIBRATE WITH ANY SIGNAL OTHER THAN COLOR BARS INPUT.** Failure to use color bar input will result in improper video output video levels.

Rotate the switch to the Auto-Calibrate detent (appx. 10:00 position). Press the ▲ (increment) or the ▼ (decrement) button to start the auto-calibrate sequence.

The yellow NC (no cal) LED will illuminate as the unit calibrates. When the NC LED extinguishes, calibration is complete, and does comply with standards. The unit will attempt to auto-cal a non-standard signal three times, then will “fail” the procedure—indicated by yellow NC LED remaining on.

If auto-cal is not possible, you can make manual adjustments.

To make manual level adjustments, place the rotary switch in Y, U, and V positions individually, and push the ▲ button to increase levels—push the ▼ button to decrease levels.

To switch between NTSC and PAL-B, rotate the switch to the NTSC/PAL select position and press either button to toggle the standard.