## Multi-Standard Serial Digital Video to Analog Video Converter with Processor
Amplifier Control

The BVSDP converts NTSC or PAL-B SMPTE 259M Serial Digital (CCIR 601) video to analog composite, Y/C, RGB, or YCrCb video. The unit is designed as a low-cost, "broadcast quality" D-A. The BVSDP features a full function front control panel for input mode selection, standard selection, proc amp control, and more. A 100% color bar test signal output is also Available with valid SDI timed input.
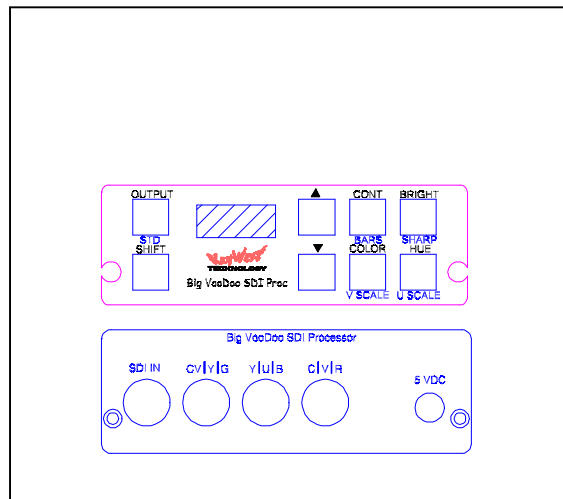
SPECIFICATIONS:

- Accepts 8-bit or 10-bit NTSC and PAL-B serial digital SMPTE 259M (CCIR 601) video input (output standard same as input standard)
- Output formats include composite, Y/C, RGB (with sync), and YCrCb
- Professional 75 ohm BNC input and output connectors
- 10-bit DAC resolution (8-bit path)
- 5 VDC operation
- 58dB typical SNR
- 5.8 MHz typical luma NTSC bandwidth (to 3dB)
- VBI capability
- 7nS typical frame input to output delay
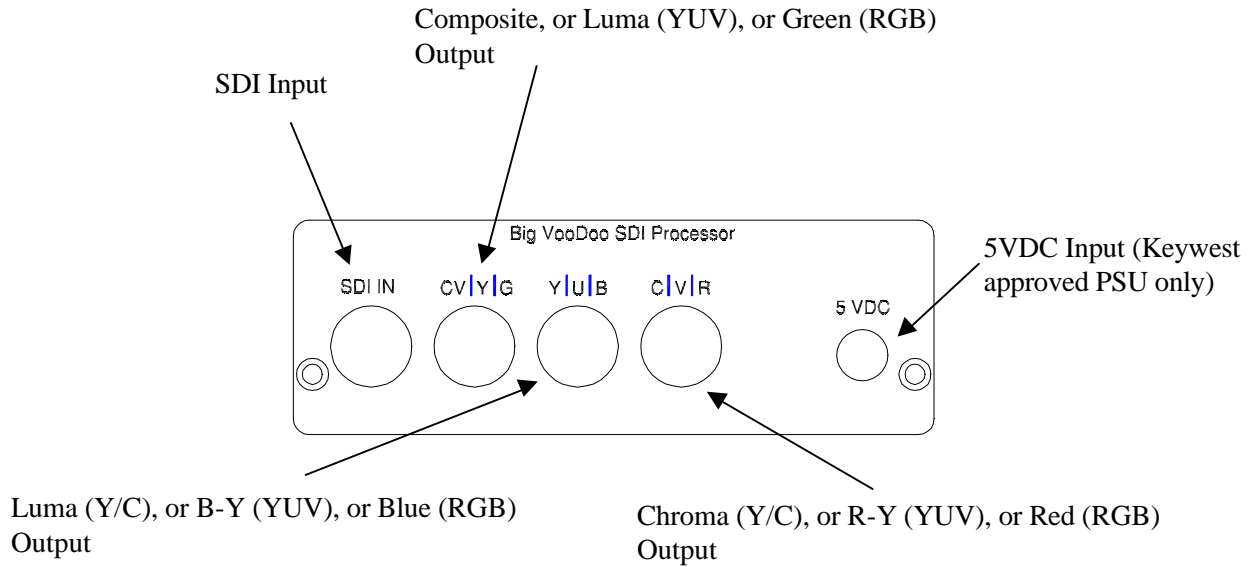- Ambient operating temperature 0 to + 70 °C

ORDERING INFORMATION

Part #	Options
BVSDP	Rack Kit, Rack Kit Blanks, Universal PSU

APPLICATIONS

- In studio conversions
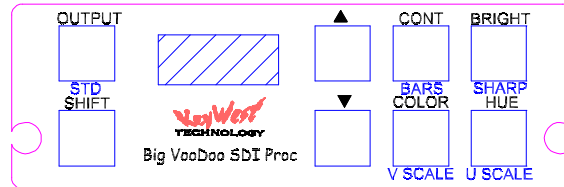- Truck/van conversions (eliminates need to replace entire monitor wall)
- Utilize SDI equipment with current analog equipment in any situation
- Receive SDI video noise-free over distances (with single cable)
- Reduce SDI conversion budget by avoiding replacement of entire suite

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CONNECTIONS

Composite, or Luma (YUV), or Green (RGB) Output

SDI Input

5VDC Input (Keywest approved PSU only)

Big VooDoo SDI Processor

SDI IN   CV|Y|G   Y|U|B   C|V|R   5 VDC

Luma (Y/C), or B-Y (YUV), or Blue (RGB) Output

Chroma (Y/C), or R-Y (YUV), or Red (RGB) Output

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OPERATING INSTRUCTIONS

LED Operation

The BVSDP front panel contains three separate eight-segment LEDs that indicate the various modes and setting levels. Menu levels are also indicated on the LEDs by the period in the lower right corner of each segment. If the period is illuminated on the MSD LED (first one on left) then you are in menu level 1—if the period is illuminated on the middle LED, you are in menu level 2.

BUTTON OPERATION

MENU LEVEL 1

OUTPUT

Press the OUTPUT button, the LEDs will display "o._0", this indicates you are in the Composite & Y/C output mode. Press the up arrow or down arrow to cycle through the other two output modes: "o._1" indicates YUV output; "o._2" indicates RGB output.

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SHIFT

Press the SHIFT button to alternately select menu level 1 or menu level 2 (as indicated by the "period" on the left and middle LEDs).

▲

Press the ▲ (up arrow) to increment modes and proc amp adjustments

▼

Press the ▼ (down arrow) to decrement modes and adjustments

CONT

Press the CONT button, the LEDs will display a value from –28 to 35, the current contrast value setting. To adjust press the ▲ or ▼ to increment or decrement the contrast setting.

BRIGHT

Press the BRIGHT button, the LEDs will display a value from 0 to 31, the current brightness value setting. To adjust press the ▲ or ▼ to increment or decrement the brightness setting.

COLOR

Press the COLOR button, the LEDs will display a value from –31 to 29, the current color value setting. To adjust press the ▲ or ▼ to increment or decrement the color setting.

HUE

Press the HUE button, the LEDs will display a value from –64 to 63, the current hue value setting. To adjust press the ▲ or ▼ to increment or decrement the color phase setting.

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MENU LEVEL 2 (indicated by "period" illumintated in middle LED)

STD

Press the STD button, the LEDs will display a either 60 or 50; to adjust press the ▲ or ▼ to alternately select NTSC (60 Hz) or PAL-B (50 Hz) I/O mode.

BARS

Press the BARS button, the LEDs will display a either "on" or "oFF"; to adjust press the ▲ or ▼ to alternately select color bars output ON or OFF.

SHARP

Press the SHARP button, the LEDs will display a either 0 or 12; to adjust press the ▲ or ▼ to adjust the sharpness level.

V SCALE

Press the V SCALE button, the LEDs will display a value from -32 to 31, the current V component gain setting. To adjust press the ▲ or ▼ to increment or decrement the V component gain setting (R-Y).

U SCALE

Press the U SCALE button, the LEDs will display a value from -32 to 31, the current U component gain setting. To adjust press the ▲ or ▼ to increment or decrement the U component gain setting (B-Y).

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OVERALL GAIN ADJUSTMENT

Adjust R32 for COARSE OVERALL OUTPUT GAIN
(Factory Set, adjust only with calibrated input SDI color bar source for
reliability)

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