

BVTBC10

10 BIT TBC/SYNCHRONIZER



Our newest addition to the Big VooDoo family has just changed some rules. Up until now, you really did have to pay a lot of money to have the best signal processing available, but now there is BVTBC10 . It has been designed to master the biggest, most serious, professional synchronizing task, fully utilizing 10-bit signal processing for superior picture quality. Check it out for yourself. The specifications on this breakthrough product match or exceed our competition, but the price will enable you to use it as indiscriminately as you wish. Why purchase 8-bit Framesyncs, when for less than you think you can have it all? Building on the main features of its very popular predecessor, the BVTBC, we have added several outstanding features such as CCIR 656 4:2:2 component digital video processing with 10-bit accuracy that meets the needs for high quality in any TV, Cable Head-end, or Post Production facility. For those needing the ultimate video converter for supporting legacy needs, we have added a Serial Digital Video (SMPTE259M-C) input or output option. Add to this color bars (analog bars only), Vertical Interval that is passed from line 10, adjustable pedestal and a 'SURELOCK' digital COMB decoder from even VHS sources, and you begin to see the picture, quite clearly at that. Some rules we insist on not changing like the outstanding quality and intuitive design, untouchably low cost, space and power saving size, which make the BVTBC10 the hands-down best TBC/Synchronizer value on the market. The superior benefits and simple integration will make your work like a day at the beach.

- Y/C and Composite I/Os
- Serial Digital Video Option
- 10-bit Signal Processing
- Convenient 1/4 Rack Size
- NTSC and PAL-B Selectable
- Full Proc-Amp Controls
- Freeze-Frame/Field Functions
- RS- 232/422 interface
- Color Bar Output
- Auto-Save Function
- "SURELOCK" Digital Decoder

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I/O SPECIFICATIONS

INPUT

- (1) NTSC SMPTE 170M or PAL ITU 624-4 (looping)
- (1) Y & C: 0.7 Vp-p/75ohm
- (1) Genlock: SMPTE 170M or PAL ITU 624-4 1
- (1) 4:2:2 SMPTE 259M-C (270 Mbps) (non-Looping) Specify S/I *Option
- RS- 232 via DB-9 fly cable

OUTPUT

- (1) NTSC SMPTE 170M or PAL ITU 624-4
- (1) Y & C: 0.7 Vp-p/75ohm
- (1) 4: 2: 2 SMPTE 259M-C (270 Mbps) Specify S/ O *Option

USER CONROLS

FRONT PANEL PUSH BUTTONS

- Freeze on/off
- Proc Amps: Luma, Chroma, Set-up, Hue
- SC/H Phase adjust
- Genlock on/off
- Input Select: CV, SV, or SDI
- TV standards select
- Decoder & filter adjust
- Color Bars (analog only)
- Pedestal Level
- Detail Adjustment

MECHANICAL

DIMENSIONS:

- 1.5" (3.8) H x 5.0" (12.7) D x 4.0" (10) W inches (cm)
- OPTION: BVRMK Rack Adapter (4 per 1 RU)
- WEIGHT: < 15 ozs. (< 425g)

POWER

- 5 VDC @ 800mA (inline PSU included)
- External PSU: 100/ 240 VAC, 47-63 Hz
- Total power consumption less than 10 watts

ENVIRONMENTAL

- Operating Temperature: 0-40 °C
- Storage Temp: -20° C to +70°C Non-condensing
- Humidity: 90% max (non-condensing)

WARRANTY

2 Year parts/labor

TECHNICAL SPECIFICATIONS

- QUANTIZATION: 10 bit
- PROCESSING: 4:2:2 component digital
- SMPTE RP125 & CCIR 656
- SAMPLING: 2x (27mHz) ADC Decoding
- SAMPLING: 2x (27mHz) DAC Encoding
- SDI PIPELINE: 4:2:2 SMPTE 259M-C (270 Mbps)
- JITTER: .15UI 1pf >10kHz SDI Output
- JITTER GENLOCK: < 50nS H- phase
- GENLOCK RANGE: -11uS to +7uS H- Phase
- PROC RANGE: -40 to + 6dB (\pm 50 IRE Brightness)

- SIGNAL TO NOISE: > 62dB rms BW= 30mHz
- DIFFERENTIAL PHASE: < 1° @ 4.43 mHz
- DIFFERENTIAL GAIN: < 1% @ 4.43 mHz
- K- FACTOR: < 1% (2T Pulse)
- Y/ C DELAY: < 10ns
- PROCESSING DELAY: 2-Fields (+ 0,- 1) Max
- FREQUENCY RESPONSE
- Synch Mode: Flat to 5.5 MHz, \pm .15dB
- TBC Mode: Flat to 5.5 MHz, \pm .15dB
- CV/Y-C/SDI: Flat to 5.5 MHz, \pm .15dB
- DECODER: Adaptive 2-line 10-bit digital COMB filter with exclusive SURELOCK for solid pictures from unstable sources

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