

BrightEye 5

Analog Composite TBC and Frame Sync

BrightEye 5 is a time base corrector with analog composite inputs and outputs. 12 bit digital signal processing ensures the best signal handling and a solid output. BrightEye 5 will time base correct signals from analog sources such as consumer VCRs, cameras and noisy microwave receivers.

The analog input is converted at 12 bits of resolution for digital processing. The signal is time base corrected and frame synchronized to the reference input and converted back to analog for output. BrightEye 5 auto detects the video standard of the input (PAL or NTSC).

Basic controls are provided on the front panel. With BrightEye Mac or PC software, you can control video proc functions; gain, chroma, pedestal, and hue. The vertical interval can be passed or blanked.

Features

- Use with VCRs, cameras, satellite receivers
- Analog video inputs and outputs
- TBC and frame sync
- Format mode lock for use with noisy/intermittent input signals
- 12 bit processing



BrightEye 5

Analog Composite TBC and Frame Sync

Analog Video Input

Number	One
Type	NTSC, PAL Composite
Impedance	75 Ω
Return Loss	>40 dB, DC to 5.5 MHz
Input DC	+/-1 volt DC
Input Hum	<100 mV

Reference Input

Number	One
Type	1 V P-P Composite Video, PAL or NTSC
Impedance	75 Ω
Return Loss	>40 dB

Performance

Frequency Response	± 0.1 dB, 0 to 5.5 MHz
K Factor	<1%
ScH Phase Error	< $\pm 2^\circ$
Differential Phase	<1°
Differential Gain	<1%
Signal to Noise	>65 dB
Timing Window	Infinite (with respect to reference) Output ScH Phase matches reference
Timing Resolution	Adjustable to within 1° of subcarrier

Analog Video Output

Number	Two
Type	Composite PAL or NTSC (follows input)
Delay	Adjustable from < 90 μ Sec to 1 frame
Return Loss	>40 dB
Output DC	<100 mV

General Specifications

Size	5.63"W x 0.8"H x 5.98"D (143 mm x 21 mm x 152 mm) including connectors and flange
Weight	14 oz
Power	12 volts, 4 watts (100-230 VAC modular power supply)
Temperature Range	0 to 40° C ambient (all specs met)
Relative Humidity	0 to 95° non-condensing
Altitude	0 to 10,000 ft.

