

Specifications:

Input Equalization	1000' Belden 8281
Input Return Loss	> 17 dB at 270 Mbit
Frequency Response	0-5.0 MHz +/- 0.25 dB
K-Factor	< 1.5%
SCH Phase	<1.5 degrees
S/N	>70 dB
Chroma Luma Delay	< 2 ns
Operating Temperature Range (non-condensing)	40-100 degrees F.
Power Required	+5VDC @ 0.45 amps
Output DAC Quantization	10 bits
Input Signal Processing	8 bits



Model 4040
SDI 4:2:2
To Analog Composite with S-Video
Or Analog Component Encoder

Owner's Manual

This product is not authorized for use in life support systems. Product liability limited only to the replacement of this unit. Cobalt Digital Inc. does not assume any liability for loss of use due to failure of this component.

Specifications subject to change without notice.

Cobalt Digital Inc. 2406 E. University Ave., Urbana, IL 61802
www.cobaltdigital.com 217-344-1243 Fax 217-344-1245

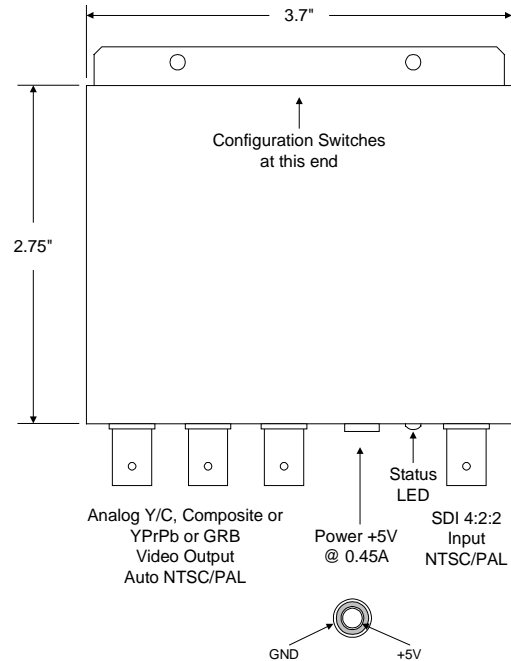
Rev.2.2 rmw

Copyright 2001-2005

Cobalt Digital Inc.

Cobalt Digital Inc. 2005

The COBALT 4040 is a high quality digital encoder for converting 525/625 4:2:2 SDI signals (SMPTE 259M compliant) to analog NTSC/PAL composite with Y/C (S-Video) or analog component video. The 4040 is rich with features such as automatic, as well as manual, NTSC/PAL detect, configurable or automatic 7.5 IRE pedestal, color or monochrome select, and color bar generator.



The 4040 is simple to use and is designed to default to auto-detect and display color NTSC/PAL analog composite video, once a 4:2:2 SDI signal is supplied. An externally accessible dip switch, adds flexibility for non-standard configurations.

SWITCH-1 SETTINGS: OFF= Down ON = Up

SW1-1 COLOR BAR TEST SIGNAL

- OFF - Encode and display input video.
- ON - Display internally generated color bar test signal (requires active SDI input).

SW 1-2 RGB/YPrPr SELECT

- OFF - RGB (Sync on all Channels).
- ON - Y, Pb, Pr (Sync on Y).

SW 1-3 VIDEO OUTPUT SELECT

- OFF - Select Component output.
- ON - Select Composite with S-Video output.

SW 1-4 RESERVED

- OFF - Not applicable.
- ON - Not applicable.

SW 1-5 AUTO STANDARD DETECT OVERRIDE

- OFF - Manually set NTSC/PAL video mode.
- ON - Auto-detect NTSC/PAL from incoming digital video stream.

SW 1-6 NTSC- PAL SELECT (only if SW1-5 is OFF)

- OFF - Display PAL video.
- ON - Display NTSC video.

SW 1-7 SETUP

- OFF - Pedestal not inserted in video.
- ON - 7.5 IRE pedestal inserted in video (For NTSC signals only).

SW 1-8 COLOR / MONOCHROME

- OFF - Display video in Black & White (Pb Pr turned off, R=G=B, C turned off, color turned off on composite output).
- ON - Display video in color.

LED INDICATOR

The front panel LED can be used to indicate a 'video lock' or video active condition. A blinking LED indicates a loss of the SDI signal. A dark LED indicates loss of power.

GAIN ADJUST

Remove the top cover and adjust R77 (located on the upper left side of the unit) to set the output gain. Replace top cover.