Specifications:

Input Equalization Auto to 1000' Belden 8281
Input Return Loss > 15 dB at 270 Mbit

Frequency Response 0-5.0 MHz +/- 0.25 dB

K-Factor < 1%

SCH Phase < 0.9 degrees

Differential Gain < 0.8%

Differential Phase < 0.8%

S/N > 72 dB

Chroma Luma Delay < 2 ns

Output Return loss > 35 dB

Input Signal Processing 10-bit Output DAC Quantization 10-bit

Output Return Loss > 35 dB

Operating Temperature Range 40-115F (5-46C)

(non-condensing)

Power +5V @ 0.7 amps

Size 3.7 x 3.6 in. (94 x 92 mm)

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. 1.5 gjz Copyright 2002 Cobalt Digital Inc.



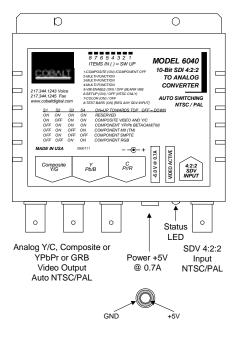
Model 6040 Serial Digital 4:2:2 To Analog Composite with Y/C Or Analog Component Encoder

Owner's Manual

Cobalt Digital Inc. 2002

The COBALT 6040 is a high quality full 10-bit digital encoder for converting 525/625 4:2:2 component serial digital (SMPTE 259M compliant) to analog NTSC/PAL composite with Y/C or analog component video. The user can select component RGB, YPbPr in BetaCamTM, MIITM, or SMPTE/N10 levels.

The 6040 is rich with features such as automatic NTSC/PAL detect and configuration, 7.5 IRE pedestal, color or monochrome select, and color bar generator.



The 6040 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 serial digital video source is supplied. An externally accessible dip switch, adds flexibility for non-standard configurations.

SWITCH-1 SETTINGS: OFF=Down ON = Up

SW 1-4 VIDEO MODE

<u>S1</u>	S2	S3	S4	ON=UP TOWARDS TOP OFF = DOWN
ON	ON	ON	ON	RESERVED
ON	OFF	ON	ON	COMPOSITE VIDEO AND Y/C
OFF	ON	ON	ON	COMPONENT YPrPb BETACAM(TM)
OFF	ON	OFF	ON	COMPONENT MII (TM)
OFF	ON	OFF	OFF	COMPONENT SMPTE
OFF	OFF	ON	ON	COMPONENT RGB

SW 5 VBI BLANKING

OFF - Bank VBI

ON - Encode VBI

SW 6 SETUP

OFF - Pedestal not inserted in video.

ON - 7.5 IRE pedestal inserted in video (For NTSC signals only).

SW 7 COLOR / MONOCHROME

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

ON - Display video in color.

SW 8 COLOR BARS ON/OFF

OFF - Display video.

ON - Display COLOR BARS.

NOTE: SDV input required to clock internal Bar Generator.

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 serial digital input signal. A dark LED indicates loss of power.

GAIN ADJUST

Remove the top cover and adjust RP1 (located on the upper left side of the unit) to set the output gain. Replace top cover.