

# Xintekvideo INC.

## UNIVERSAL ANALOG /DIGITAL/ANALOG TRANSCODER MODEL SDI-313



### DESCRIPTION:

Xintekvideo's Transcoder Model SDI-313 is a universal color encoder, color decoder, format transcoder, analog to SDI and SDI to analog converter. It accepts any analog format, Composite, Y/C, RGB, Y/R-Y/B-Y (NTSC or PAL scan rates) and converts it to any other analog format and to SDI. It also accepts a SDI input and converts it to its corresponding analog format (525/625, 60/50 Hz). An internally generated Color Bars signal is also available at the analog outputs.

The selected input or inputs are first antialias filtered then converted to digital signals at 27 MHz sampling rate and 10-bit quantizing accuracy. Advanced digital processing technology is used in the color decoding process, including 5-line adaptive comb filters for the composite input signal, low pass and band-pass filtering and data sampling decimation filters. Signal processing is performed with 12-bit accuracy. The digital signals are converted to SDI. The SDI signal is reconverted to analog. Composite and component outputs are simultaneously available.

### SPECIFICATIONS:

Inputs: 4:2:2 Serial digital video at 270 Mbs  
Composite NTSC or PAL, loop through input  
Y/C input into 75 Ohms  
RGB or Y/R-Y/B-Y into 75 Ohms  
Unprocessed Output: Equalized and re-clocked SDI input  
Outputs: Two serial digital video outputs at 270 Mbs  
NTSC or PAL analog output  
Y/C analog outputs  
RGB or Y/R-Y/B-Y outputs  
Front Panel Control: Video input selection  
Video Sampling Rate: 27 MHz  
Quantizing Accuracy: 10-bit  
Processing Accuracy: 12-bit  
Input Bandwidth: 6.5MHz  $\pm$  1dB  
Output Video: Bandwidth limited to appropriate standards  
Differential Phase:  $\pm 1^\circ$   
Differential Gain:  $\pm 1\%$   
System delay: 1TV line for NTSC 2 TV lines for PAL +4 $\mu$ s  
Power Requirement: 110-240v 50/60Hz 20 Watts  
Operating Temperature: 32° F to 110° F , ambient  
Humidity: 10% to 90% non-condensing  
Mechanical: 1RU cabinet: 1.75"H, 19"W, 10"L; 6Lbs

Specifications subject to change without notice. 4/2004

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