

Xintekvideo INC.

PROFESSIONAL SDI TO ANALOG CONVERTER MODEL SDI-110



DESCRIPTION:

Xintekvideo's professional SDI to Analog Converter is a full resolution, very high quality bridge from D1 serial video to analog composite NTSC/PAL and component video.

The Model SDI-110 Converter accepts 270 Mbs D1 data and it outputs a composite color NTSC or PAL signal, a Y/C signal, Y, R-Y, B-Y signals, Red, Blue, and Green. In addition it outputs a frequency equalized and re-clocked 270 Mbs digital data, making it possible to extend the transmission range of the digital signal. Internally generated color bars are also available.

Unlike other low cost (as well as some high cost) digital to analog converters on the market that may claim 10-bit processing but are actually limited to 8-bit quantizing accuracy, the Model SDI-110 maintains full 10-bit quantizing accuracy from the input port to the digital-to-analog conversion process. Video is properly low-pass filtered and the high frequency response is essentially flat out to 5 MHz. It has full 75 Ohm driving capability at both its digital output and its analog outputs.

The SDI-110 has front panel controls to adjust output video level. It also provides means to boost

video high frequencies to compensate for the roll-off of video displays. As much as 4 dB of high frequency boost can be added to the luminance. High frequency compensation is performed digitally. High frequency details are digitally cored to reduce noise visibility prior to combining with the video luminance. Appropriate digital clipping of highlights and blacks is done in the digital domain when high frequency boost is applied.

The SDI-110 has internal independent level adjustment of all output signals. That permits setting any output to +/- 30% of standard levels.

The Model SDI-110 is fully self contained, housed in a professional rack mountable cabinet. Two independent units can be mounted in the same enclosure.

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Professional D1 to Analog Converter

Model SDI -110

SPECIFICATIONS:

Input:

4:2:2 Serial digital video at 270 Mbs

SDI interface level into 75 Ohms

Digital Output:

D1 serial digital outputs

SDI interface level at 75 Ohms

Analog Outputs:

Composite NTSC or PAL video
Y/C output (4-pin mini DIN connector)

1 volt pp into 75 Ohms. BNC connector.

Y: 1v pp into 75 Ohms

C: 0.63v pp for 75% color bars, into 75 Ohms

1v pp into 75 Ohms. BNC connector.

0.7v pp for 75% color bars into 75Ohms. BNC

RGB with sync on Green

Luminance output

R-Y and B-Y outputs or RGB outputs
(Rear panel switch selectable)

Front panel selectable 75% color bars

*Note: All output levels independently adjustable
by means of internal trimpots.*

Video Specifications:

Frequency Response

Flat response (+/- .5 dB) out to 5.0 MHz for Y,

Red, Blue, and Green signals

-6dB at 3.5MHz for Color Differences

<1% plus quantizing effect

Better than 1%

Less than 2%

+/- 25ns

0 dB to +4dB

Non-Linearity

K Factor with 2T Pulse

Frame Tilt

Y to Color Differences relative timing

Luminance High Frequency boost

Environmental:

Temperature

40°F to 105°F, Ambient

Humidity

10% to 90% non-condensing

Power:

120 volts AC, 60Hz, 15 Watts

Mechanical:

1.75"H, 19"W, 9"D, 7Lbs