

Xintekvideo INC.

RANDOM NOISE REDUCER/ COMPONENT TO SDI CONVERTER MODEL SDI 330



AN ADVANCED NOISE REDUCER/ SDI CONVERTER FEATURING:

****Xintekvideo's VIP Technology***

A digital Video Improvement Processor engine utilizing advanced filtering techniques with motion compensation to provide over 9 dB of random noise reduction with no objectionable artifacts. 12-bit processing, 10-bit quantizing.

****Independent Noise Reduction of Luminance and Color Difference Signals***

It permits video processing optimization for all types of random noise.

****Xintekvideo's Auto Noise Reduction Technology***

Automatic setting of noise reduction level based on input video quality.

****Serial Digital Output***

Two D1 serial digital outputs for D1 serial interfacing.

****Optional Analog Components Output***

For easy monitoring of system performance.

DESCRIPTION:

The Model SDI 330 is a high quality random noise reduction processor utilizing Xintekvideo's exclusive **VIP** technology. **VIP** (Video Improvement Processor) is a proprietary system that utilizes recursive filtering techniques in conjunction with sophisticated motion compensation to achieve outstanding noise reduction performance. The performance of the system is particularly startling when applied to very noisy video signals. (Try using other noise reducer with very noisy pictures and look at the artifacts generated by those processors!).

The Model SDI 330 delivers over 9 dB's of S/N improvement for both luminance and color difference signals. Independent control of luminance and color difference noise reduction permits optimum processing for many types of random noise, e.g. plain "snow", color streaking, extraneous interference and beats. Intelvideo's unique AUTO noise reduction permits optimum hands-off operation.

The SDI 330 is ideal for transmission links utilizing digital compression techniques (e.g. MPEG), where random noise can severely affect compression efficiency. It is highly effective in video production applications to improve picture quality from poor tapes or old films. The SDI 330 utilizes large gate array technology to deliver stable performance at an extremely competitive price.

Random Noise Reducer / SDI Converter

Model SDI 330

Specifications:

Input:

Y, R-Y and B-Y video signals

1 volt peak to peak for Y, 0.7v pp for color difference signals 75% Color Bars, into 75 Ohms.
Return Loss >40dB

Reference input

Black burst or composite NTSC color video.
Looped through, high impedance input.

Output:

Two D1 serial digital outputs

SDI interface level at 75 Ohms

Optional Y, R-Y, B-Y analog outputs

At the same levels as the inputs

Video Specifications:

Frequency Response

Flat response (+/- .5 dB) out to 4.5 MHz for Y
-6dB at 1.7 MHz for Color Differences

Non-Linearity

<1% plus quantizing effect

K Factor with 2T Pulse

Better than 1%

Frame Tilt

Less than 2%

Y to Color Differences relative timing

+/- 25ns

Luminance Noise Reduction

0 dB to 9 dB of noise reduction (motion and initial picture quality dependent).

Color Difference Noise Reduction

Same as for Luminance

Input to Output delay

2usec, nominal

Quantizing accuracy

10-bit

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

Specifications Subject to Change without notice. 03/02

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