

Xintekvideo INC.

COMPONENTS RANDOM NOISE REDUCER MODEL VP10C



AN ADVANCED RANDOM NOISE REDUCER 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. 10-bit quantizing, 12-bit processing.

****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 for hands-off operation. Manual setting also possible.

****Optional Serial Digital Output***

Two D1 serial digital outputs for easy interfacing to compression equipment and other digital interfaces.

DESCRIPTION:

The Model VP-10C 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 VP-10C 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 VP10C 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 VP10C utilizes large gate array technology to deliver stable performance at an extremely competitive price.

Components Random Noise Reducer

Model VP10C

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:

Y, R-Y, B-Y analog output

At the same levels as the input

Optional two D1 serial digital outputs

SDI interface level at 75 Ohms

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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