

Xintekvideo INC.

RANDOM NOISE REDUCER MODEL VP10A



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.

****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.

****Digital Adaptive Comb Filters***

For outstanding separation of luminance and chrominance.

****Optional Y/C Output***

For optimum interfacing to S-VHS equipment.

DESCRIPTION:

The Model VP-10A 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-10A 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 VP10A 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. It is very useful at cable head ends when trying to pick up distant or weak stations.

The VP10 utilizes large gate array technology to deliver stable performance at an extremely competitive price.

Random Noise Reducer

Model VP10A

Specifications:

Input:

NTSC Color TV Signal

1 volt peak to peak into 70 Ohms

Return Loss >40dB

Optional Y/C input

Output:

NTSC Color TV Signal

1 volt peak to peak into 75 Ohms

Return loss >35 dB

Optional Y/C output

Video Specifications:

Frequency Response

Flat response (+/- .5 dB) out to 4.5 MHz

Non-Linearity

<2% plus quantizing effect

Differential Phase

<2° 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

1 TV line plus 2usec, nominal

Quantizing accuracy

8-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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