

# Xintekvideo INC.

## SDI NOISE REDUCER MODEL SDI-10



### DESCRIPTION:

Xintekvideo's SDI Random Noise Reducer Model SDI-10 is an improved all digital version of the popular Model VP-10. It uses the same **VIP** (Video Improvement Processor) as the VP-10 but with increased sensitivity and 12-bit processing accuracy.

The noise reducer uses proprietary technology based on recursive filtering and motion compensation techniques to achieve outstanding noise reduction with minimum or no artifacts. Its performance is particularly startling when applied to very noisy video signals. (Try other peoples' noise reducers with very noisy signals!).

The Model SDI-10 takes a serial digital video at 270 Mbs, disassembles it into the luminance and two color difference signals, it then individually and independently applies noise reduction to each component signal. More than 9 dB's of noise reduction can be achieved both in the luminance and the color difference signals. Up to 6 dB's of high frequency boost can also be added to the luminance if needed. The three signals are then re-assembled into a 270 Mbs serial digital video.

The system automatically goes into bypass during blanking, thus retaining any data imbedded in

blanking. All video levels are automatically clipped when necessary to remain within the SDI specifications.

The Model SDI-10 delivers considerable picture quality improvement and it permits video compression with much higher efficiency.

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### SPECIFICATIONS:

Input: 4:2:2 Serial digital video at 270 Mbs  
Unprocessed Output: Equalized and re-clocked serial digital data , 75 Ohm BNC connector  
Processed Output: Two serial digital video outputs at 270 Mbs , 75 Ohm BNC connectors  
Frequency Response: Normal: What comes in goes out.  
Boosted Mode: 0 dBs to 6 dBs boost centered at 3.35 MHz  
Luminance Noise Reduction: 0 dBs to 9 dBs (motion and initial picture quality dependent)  
Color Difference Signals Noise Reduction: 0 dBs to 9 dBs (Motion and initial picture quality dependent)  
System delay: 1 usec  
Power Requirement: 120v AC, 60 Hz, 15 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. 3/2002

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