

Xintekvideo INC.

SDI COLOR CORRECTOR/ VIDEO PROCESSOR MODEL SDI-900M



DESCRIPTION:

Xintekvideo's Model SDI-900M is an all digital Color Corrector/Video Processor that directly interfaces with SDI video and provides the means to truly optimize picture quality and compression efficiency. In its stripped down version, (Model SDI-900 without noise reduction or pre-sets) it can be used as a full featured color corrector to match video to any display characteristics. A third version, the Model SDI-900A features noise reduction but no memory pre-sets.

The Model SDI-900M provides a wide-range control of amplitude and pedestal for each primary color, permitting full balance of highlights as well as low lights. It features Xintekvideo's **VIP** (Video Improvement Processor) technology. The **VIP** system delivers over 9 dBs or random noise reduction for both luminance and color difference signals. Independent, automatic and/or manual noise reduction of Y, U and V permits system optimization for different types of random noise, e.g. "snow", color streaks, beats etc..

Other processes provided by the SDI-900M include luminance high frequency boost (0 to 6 dBs), Gamma correction (.3 to 1.5), and brightness control. The Model SDI-900M comes with 7 correction pre-sets, where front panel settings can be stored into or read from non volatile memory. Up to 400 pre-sets are optionally available.

The Model SDI-900M features individual, simultaneously operable, independent front panel controls for each function. No need to go through menus and search for the desired function. That makes the system extremely user's friendly.

The Model SDI-900M will not affect inbedded signals in the SDI video stream as it automatically goes into process bypass during non video time.

SPECIFICATIONS:

Input: 4:2:2 Serial Digital video at 270 Mbs
Unprocessed Output: Equalized and reclocked input
Processed Output: Two digital video outputs at 270 Mbs
Optional components and composite analog outputs
Frequency Response: Flat, or +3 dBs or +6 dBs HF boost
Processing Accuracy: 10 to 12 bit processing accuracy
CONTROL FUNCTIONS: Red Gain: $\pm 40\%$
Red Pedestal: ± 25 IRE
Blue Gain: $\pm 40\%$
Blue Pedestal: ± 25 IRE
Green Gain: $\pm 40\%$
Green Pedestal: ± 20 IRE
Y set-up: ± 12 IRE
Y Gamma: .3, .5, .8, 1.0, 1.3, 1.5
Y HF Boost: 0dB, 3 dB, 6 dB
Process/Bypass switch
Front Panel or Pre-Set Selection
Pre-set memory selection
Store into memory control
Luminance Noise Reduction: 0 to 9 dB (Motion and initial picture quality dependent)
Color Difference Signals Noise Reduction: 0 to 9 db (Motion and initial picture quality dependent)
System Delay: 3.3 μ sec (2.9 μ sec without noise reduction)
Power Requirement: 120v AC, 60 Hz, 15 Watts
Operating Temperature: 32 $^{\circ}$ F to 110 $^{\circ}$ F, ambient
Humidity: 10% to 90% non-condensing
Mechanical: 1RU cabinet: 1.75"H, 19"W, 11"L; 7Lbs

Specifications subject to change without notice. 1/2004

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