

Xintekvideo INC.

NTSC COLOR CORRECTOR MODEL VP900A



DESCRIPTION:

Xintekvideo's NTSC Color Corrector Model VP900A goes to the root of color errors and provides the means to truly apply the proper correction.

Conventional color correctors are able to modify chroma phase and color saturation, but changing chroma phase and saturation independent of luminance gain and black level results in a violation of the constant luminance principle, i.e., in luminance errors. The Model VP900A provides not only chroma phase and gain adjustments, but by incorporating the circuits of the Model VP700 Color Decoder, it also gives the operator full control of amplitude and pedestal for each primary color, thus permitting full color balance of highlights as well as low lights.

The VP900A features Xintekvideo's **VIP** technology. The **VIP** engine (**V**ideo **I**mprovement **P**rocessor) is a proprietary system that utilizes recursive filtering techniques with motion compensation to provide over 9 dB's of random noise reduction in both luminance and chrominance. Independent noise reduction of Y and C permits system optimization for different types of random noise, e.g. "snow", color streaks, beats and other random interference.

The VP900A also feature AUTO noise reduction, a proprietary technique that detects noise level of the input video and automatically adjusts the sensitivity of the noise reduction circuits. This permits hands-off operation at optimum noise reduction setting.

SPECIFICATIONS:

Input: NTSC color video signal, 1v pp into 75 Ohms looped through. Return Loss >40dB

Output: NTSC color video signal, 1v pp into 75 Ohms Return Loss >35dB

Optional outputs: Red, Blue, Green baseband signals

CONTROL FUNCTIONS:

Red Gain: 0 to 140%
Red Pedestal: +/-20%
Blue Gain: 0 to 140%
Blue Pedestal: +/-20%
Green Gain: 0 to 140%
Green Pedestal: +/-20%
Video Gain: +/- 30%
Chroma Gain: +/- 20%
Chroma Phase: +/- 20°

NOISE REDUCTION:

0 to 9 dB of noise reduction (motion and initial picture quality dependent) for either or both Y and C

VIDEO SPECIFICATIONS:

Frequency Response: +/- 0.5dB to 4.2MHz
Differential Phase: <1° plus quantizing effects
Differential Gain: <1% plus quantizing effects
K Factor with 2T pulse: Better than 1%
System Delay: 1 TV line plus 2usec nominal
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; 7Lbs

Specifications subject to change without notice. 3/2002

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