

VECA

Video Enhancer Compensator Amplifier

Applications and Operation Manual



The VECA is an inline device to pre-compensate for video degradation due to long cables designed to be mounted at the head end or the camera side. There are two controls on the VECA, one for Enhancing and the other for Gain.

Installation

Connect the VECA inline-with the video signal you wish to enhance. Adjust the gain so the over all video level at the monitoring end is returned to 1 V P-P. Then turn on the Enhance switch and adjust clockwise until the picture is improved to your satisfaction.

Gain

This control amplifies or attenuates the overall gain or video level of the signal. This can recover attenuated signals due to long cable runs up to X2 video gain. It can also attenuate the video gain if the video signal is too high or you turn up enhance to maximum. The gain circuitry can operate with video input levels up to 2.5 V P-P which will give a maximum output level of 4 V P-P. However the Enhance Switch must be in the "Off" position with input video levels over 1.5 V P-P.

Enhance

This control improves the video picture to get high quality by rectifying the picture contour. Move the control clockwise to increase the high frequency component of the video signal to enhance the picture. Turning the control all the way counter clockwise will attenuate the high frequency portion of the video for a soft look.

Enhance On / Off

If this switch is in the “Off” position the enhancement circuitry is turned off and the adjustment control makes no difference. In this position the user can adjust the proper overall video level. In the “On” position the enhancement is enabled and one can adjust for optimum enhancement. **Note** that enhance circuitry only operates with video input levels of 1 – 1.5V P-P, if higher input is used the Enhance switch should be in the “Off” position or video distortion will occur.

Default Factory Adjustment

The factory presets the Gain at unity or X1 which is no amplification or attenuation. The Enhancement adjustment is nominal and unity or X1 enhancement. The Enhance switch is in the “Off” position.

Power

The VECA uses a standard 2.1mm x 5.5 mm DC Coax Plug for power. 12VDC @ 100ma is required.

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