# ACE472

## AUTOMATIC CABLE EQUALIZATION AMPLIFIER -VIDEO ACE-



The dynamic action of the ACE472 Automatic Cable Equalization amplifier automatically corrects all picture brightness loss and picture fuzziness introduced by losses in any length of connecting cables, even when the cables are up to one mile long. If another camera with a different length of cable is switched in, the new picture will automatically be perfectly adjusted. The dynamic action of the ACE472 automatically measures the loss of the connected cable and corrects, exactly, for that loss. All cameras connected to ACE472 amplifiers will have equal brightness, the highest possible definition and color intensity, even though the individual cameras may vary in picture brightness and the cables are of different length or type, or even mixed Coax and CAT-5 cable.

The VIDEO ACE dynamic control system continuously optimizes all aspects of the picture as lighting conditions change throughout the day and even if different cameras and cable lengths are switched in. The ACE472 is located at the receiving end of the CCTV system ahead of the switchers, monitors and recorders.

The ACE472 automatically cancels all Ground Loops and RF interference and also clamps out any low frequency interference and 60 Hz bars that may otherwise mar the picture quality.

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### AUTOMATIC CABLE EQUALIZATION AMPLIFIER

Each ACE472 Circuit Card contains two Automatic Cable Equalizers and each equalizer has two independent BNC video output connectors. Nine circuit cards can slide into one RMS400 Main Frame, so, one Main Frame will handle eighteen (18) cameras in just 3 Rack Spaces (5 vertical inches of rack space).

The ACE472 is available for use with either Coaxial Cable input or UTP (CAT-5 Twisted pair) input cable. When ordering, please specify whether the card is for Coaxial Cable or CAT-5 Twisted Wire input. The CAT-5 input cards have screw-terminal input connectors while the Coaxial Input cards have female BNC connectors.

Being fully automatic, the ACE472 requires no front panel adjustments. A push button on each channel momentarily disables the automatic control system to allow local viewing and setting of the manual and automatic camera Iris controls. When the push button is released, the automatic action of the ACE472 resumes and the effect of automatic equalization becomes dramatically evident, especially on long cable runs.

#### VIDEO INPUT

Standard Level Impedance (coaxial input) (CAT-5 input) Connector (Coaxial input) (CAT-5 input)

#### PROCESSING

Clamping Common Mode Suppression Gain Control (luminance) Source of (luminance)50 dBLevel Control Range100 IRE Peak WhiteHF Compensation (coaxial cable)<br/>(CAT-5)50 dBOUTPUTCAT-5

#### OUTPUT

Level Impedance Connectors Frequency Response Sync Level Color Burst Level 60Hz Residual S/N Ratio

#### SPECIFICATION

NTSC/CCIR B/W or Color 0.5 to 1.5 Volts, peak to peak 75 Ohms, Unbaren 105 Ohms, Balanced 75 Ohms, Unbalanced Screw Terminals

> Back Porch Automatic to 3000 feet

1 Volt (140 I.R.E. Units) 75 Ohms Two BNC connectors per channel Flat to 6 MHz 40 IRE Units 40 IRE Units Less Than 1.0 IRE Unit 70dB