EA2000 Equalizing Amplifier

HALF-DUPLEX, COAXITRON® CONTROL

Product Features

- 120 or 230 VAC Input (for Wall Transformer)
- For use with Coaxitron® Control Systems
- Solid-State Circuitry
- For Post-Equalization Applications Only
- Desktop or Rack Mount

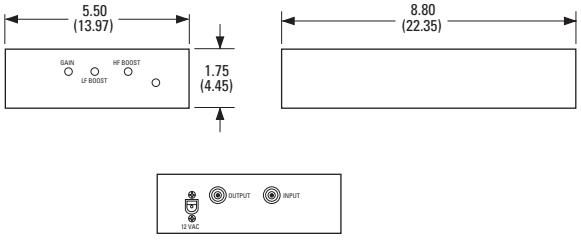
The **EA2000** is a half-duplex video/control equalizing amplifier intended for, but not restricted to, use with Pelco's Coaxitron® controls.

The **EA2000** provides a low cost, highly effective means of maintaining picture quality in runs of up to 3,000 feet (914 m) of RG59/U coaxial cable and also maintains the quality of the Coaxitron control signal. Front panel controls provide for adjustable amplifier flat gain of 1 to 8 dB, plus adjustable high frequency boost of 0 to greater than 18 dB at 12 MHz, maintaining full video amplitude, contrast and detail.

The **EA2000** features all solid-state circuitry and is supplied with a U.L. Listed wall transformer.

Applications of the **EA2000** should be for post-equalization only (located near the monitoring equipment); use as a pre-equalizer is discouraged.

Three units can be rack mounted using the R300 rack mount kit.



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

LISTED
International Standards Organization Registered Firm; ISO 9001 Quality System
ISO 9001 CERTIFIED

TECHNICAL SPECIFICATIONS

MODELS

EA2000	Half-duplex equalizing video/control amplifier, 120 VAC operation
EA2000/220	Same as EA2000 except 230 VAC operation

ELECTRICAL

Input Voltage	120 VAC, 50/60 Hz or 230 VAC, 50 Hz
Power Requirements for Transformer	1.5 VA (0.125 amp) at 12 volts RMS ±15%, 50-60 Hz from a dedicated, isolated source
Input	Single (BNC), internally terminated at 75 ohms
Output	Single (BNC), source terminated
Frequency Response	Adjustable from flat (±1 dB) at 12 MHz to greater than 18 dB of boost at 12 MHz
Gain	Adjustable from 1-8 dB
Signal-to-noise Ratio Output	-74 dB
Dynamic Range	Up to 2 Vp-p at 50% APL Up to 1.5 Vp-p at 90% APL
Tilt	Less than 2%

Cable Lengths

Cable Type	Maximum Effective Distance
RG59/U	3,000 ft (914.4 m)
RG6/U	4,500 ft (1371.6 m)
RG11/U	6,000 ft (1828.8 m)
RG15/U	8,000 ft (2438.4 m)

GENERAL

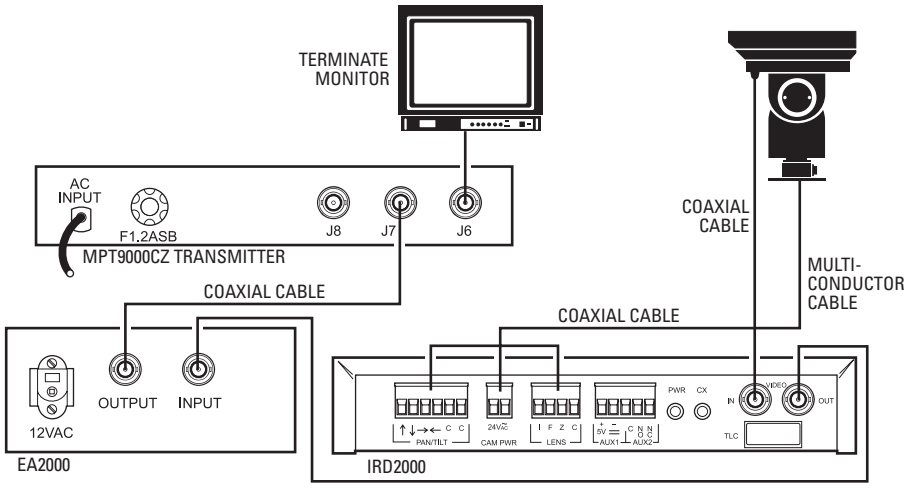
Construction	
Chassis	Steel, zinc plated
Cover	Steel, black polyester powder coat
Panel	Aluminum, black polyester powder coat with white silk-screen
Environment	32° to 120°F (0° to 49°C) 0% to 9% relative humidity
Unit Weight	3 lb (1.35 kg)
Shipping Weight	4 lb (1.8 kg)

CERTIFICATIONS/RATINGS

- CE, Class B (EA2000/220)
- FCC, Class B (EA2000)
- UL Listed (EA2000)
- Meets NEMA Type 1 standards

OPTIONAL ACCESSORIES

R300	Rack mounting kit (1 RU) for up to three modules. Blank filler panels provided for less than three modules. (Factory racking available for R300 rack kit only. Specify when ordering.)



TYPICAL CONFIGURATION

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