

CC330-01 AND -02 SPECIFICATIONS

The following specification format is in accord with EIA standard RS-312, "Engineering Specifications Format for CCTV Camera Equipment."

ELECTRICAL

Input Voltage Equipment design requires a nominal line input of 120 volts AC, 50/60 Hz. The equipment will operate satisfactorily with line excursions of 105 to 130 volts.

Input Power Total power consumption is 85 watts.

Vertical Sweep Rates Vertical sweep rate is either 50 or 60 Hz.

Horizontal Sweep Rates Horizontal sweep rate is either 15,625 or 15,750 Hz.

Scanning Scanning is interlaced with the following parameters:

INTERLACE RATIO	LINES Per FRAME	FRAME RATE
2:1	625	50 Hz
2:1	525	60 Hz

Sync and Blanking

Two sync and blanking modes are provided:

Mode A. When used with an external EIA Synchronizing Generator, either composite or non-composite video output meeting RS-170 requirements.

Mode B. Internally generated sync and blanking meeting RS-330 requirements.

Camera Tube Type

CC330-01: 1 inch separate mesh vidicon, 8507A or equivalent.

CC330-02: 1 inch lead oxide type Plumbicon®, Amperex CCTV-111 or equivalent.

Sensitivity — The sensitivity of the camera is such that with a highlight brightness of 1 foot candle at the vidicon face plate, 0.7 volt peak-to-peak non-composite video signal will be produced at the output when terminated in a 75 ohm load. With this sensitivity, the following conditions prevail:

A. Signal to Noise

A minimum of 46 dB peak-to-peak signal to rms noise weighted.

B. Lag

CC330-01: 20% of initial signal output after 50 milliseconds.

CC330-02: 5% of initial signal output after 50 milliseconds.

C. Spectral Response

CC330-01: As published in the specification for the 8507 or equivalent vidicon tube.

CC330-02: As published in the specification sheet for the CCTV-111 lead oxide-type (Plumbicon®) tube.

D. Resolution

CC330-01: 800 line limiting with 90% amplitude response at 400 TV lines.

CC330-02: 600 lines limiting.

Resolution —

CC330-01: Resolution using measurement methods as outlined in IEEE Standard 208, 800 TV lines limiting and 90% amplitude response at 400 TV lines.

CC330-02: Resolution using measurement methods as outlined in IEEE Standards 208, 650 TV lines limiting.

Automatic Light Range —

CC330-01: Automatic light level control provides a video output with less than 6 dB change over a light variation of 2000 of 1, with 1 foot candle at the face plate as the lower threshold. An electronic closed loop feedback system is employed when in the automatic target mode.

CC330-02: Circuitry included but not applicable with lead oxide-type tube.

Resolution Stability vs. Temperature

Claimed resolution is changed no more than 75 lines while operating in an ambient temperature range of 0° to 40° centigrade.

Resolution Stability vs. Input Voltage Variation

Claimed resolution is changed no more than 50 lines with AC line input variation of 105 to 130 volts.

Gray Scale Rendition

A minimum of 10 shades of gray. Adjustable gamma correction is provided.

Signal Transmission Distance

All performance specifications met with cable lengths up to 300 feet.

Output Video

Non-Composite — 0.7 volts peak-to-peak.

Composite — 1 volt peak-to-peak, 0.7 volts video and 0.3 volts of sync.

Polarity — Black negative going standard. Video polarity reversal provided.

Source Impedance — 75 ohms, AC coupled output.

Load Impedance — 75 ohms.

Output RF

Not provided.