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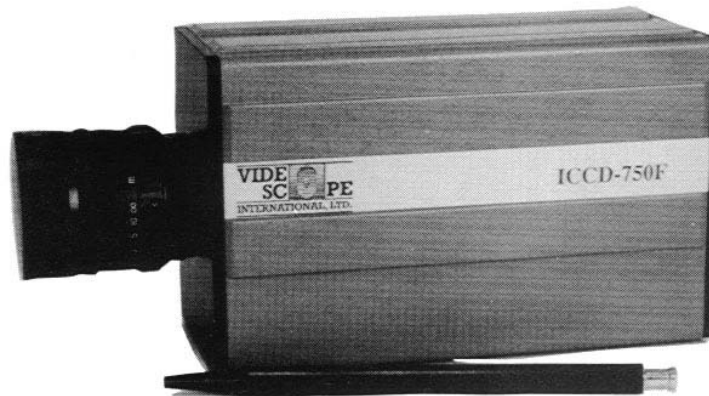
Data Sheet

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ICCD-750F

Intensified CCD Camera



Features:

- ✓ High Sensitivity (10^{-7} footcandles on faceplate)
- ✓ >400 TV Lines Resolution
- ✓ Image Intensifier is fiber optically coupled to CCD
- ✓ Very Compact Design (<6 inches long)
- ✓ RS-170 or CCIR
- ✓ 'C' Lens Mount Input
- ✓ Auto-Iris Power Supply for DAY/NIGHT Operation

The **ICCD-750F** Intensified CCD Camera consists of an 18mm proximity focused Microchannel Plate (MCP) image intensifier fiber-optically coupled to a high sensitivity CCD camera. The camera has a 768(H) X 493(V) pixel interline CCD sensor. The standard format of the camera is 2/3", or 8.8mm x 6.6mm. Other formats are available on request.

The camera comes standard with a S-25 extended red response photocathode and is available with options for UV, Blue-Green and Near IR response. A GEN III version is also available.

The **ICCD-750F** is a completely automatic surveillance camera capable of day/night operation with an Auto-Iris lens. The image intensifier power supply is specially designed to work in co-operation with an Auto-Iris lens. Optionally, the **ICCD-750F** may be equipped for complete manual control.

In addition the intensified camera may be equipped with gating. There are two gating options available, one will attain gating speeds or optical gate pulses ranging from 100ns to full on and the second from less than 5ns to full on.

Geometric distortion and lag are virtually non-existent in the intensified camera. The only lag is due to the CCD, which is very low.

Specifications:

- Spectral Response: **S-25 Extended Red Response**, ranging from 350nm to 900nm
- Sensitivity: **Photometric: $<1 \times 10^{-7}$ fc on the faceplate using a 2854K source**
Radiometric: 1×10^{-13} W/cm² at 500nm
Full video: 1×10^{-6} fc
- Resolution: **>400 TV lines**
- Grey Scale: **10 shades of grey (EIA standard chart)**
- Image Format (HxV): **8.8mm x 6.6mm**
- Geometric Distortion: **<1%**
- Lag: **<1 ms**
- Gamma: **1.0 (preset), 0.45 Option**
- Active Pixels (HxV): **RS-170 – 768x493 and CCIR – 756x581**
- Pixel or Image Cell Size: **RS-170 – 11.0 μ m (H) x 13.0 μ m (V)**
CCIR – 11.0 μ m (H) x 11.0 μ m (V)
- Video Output: **1.0 Volt p-p 75 Ω , composite**
- Video Sync: **RS170 – 525 lines, 2:1 interface or CCIR – 625 lines, 2:1 interface**
- Intensifier Gain Control: **Automatic/Manual (Optional)**
- Auto-Iris: **Standard (it is recommended that an auto-iris lens with a maximum rating of T1000 or higher be used to safely handle daylight)**
- Life: **>2000 hours**

Mechanical:

- Dimensions: **5.7" x 2.9" x 3.9" (14.5cm x 7.3cm x 9.9cm)**
- Weight: **3 lbs**
- Input Lens Mount: **C-Mount**

Electrical:

- Input Voltage: **12VDC**
- Input Power: **approx. 4 Watts**

Temperature:

- Storage: **-30⁰C to 60⁰C**
- Operating: **0⁰C to 40⁰C**