Special-Purpose Straight Video Camera

This camera is unique in its use in bright sunlight down to total darkness. Special IR illuminators can identify a human face at distances in excess of 40 feet in total darkness. The illumination range also provides for an Automatic Exposure Control (AEC) to accommodate varying lighting conditions. The completely self-contained unit includes a power converter which operates from +28VDC input and converts to the necessary operating voltages. A variety of focal length lenses are available in either “C” or “D” mounts.

P/N 93-2400-200

**Applications**
- Commercial airline security
- Aircraft Over-the-Shoulder
- Recording DDI & MFD
- Flight tests
- Stores separation
- Reconnaissance viewfinder systems
- Landing Gear Evaluation

**Features**
- Power Converter Built-In
- Built-in Illumination
- Small Size
- One Piece
- Ruggedized for High-Performance Aircraft Environments
- 470 TVH Lines Resolution
- Compatible with Lens Exposure Control
- RS-232 Programmable
FEATURES

- Power requirements: 12.0VDC; 10-17VDC
- Power consumption: 3.5 Watts
- Pickup device: Interline-Transfer Hyper HAD CCD, 1/2"
- Horizontal resolution:
  - NTSC: 470 TV lines
- Picture elements:
  - NTSC: 768 (h) x 494 (v)
- S/N ratio:
  - NTSC: >48dB
- Sensitivity: 2000 Lux at f/5.6 / Min. 4.5 Lux at f/1.2
- Internal or external sync
- Shutter speeds: 1/60th second, 1/100,000 second, flickerless and CCD iris
- AGC: on/off
- Gamma: 0.45/1
- White balance: ATW, 3200K, 5600K, and manual
- Video formats: Y/C component and NTSC composite
- Weight: 4.6 ounces with 6/12 mm focal length lens
- 12 month warranty

ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: -40°C to +71°C
- Storage Temperature: -50°C to +40°C
- Altitude: 50,000 feet
- Over Pressurization: -15,000 feet
- Humidity Operating: +90% RH, 60°C, 2 hrs
- Humidity Storage: 48 hrs (two 24 hr cycles)
  - 95% RH, +50°C, 6 hours
  - 85% RH, +38°C, 16 hrs
- Vibration: Random, 6 G rms, 5 min duration
- Shock: 9Gs, 11msec, 1/2 sine wave, 3 axes
- Acceleration: Lateral (Nx) - 6Gs; Longitudinal - 6Gs
  - Normal (+Nz) - +8Gs; Normal (-Nz) -6Gs

OPTICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Lens Focal Length</th>
<th>FOV Horiz</th>
<th>Degrees Vert</th>
<th>FOV Horiz</th>
<th>Milliradians Vert</th>
<th>Application</th>
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<tbody>
<tr>
<td>25.0mm, f2.5</td>
<td>14.6</td>
<td>11.0</td>
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<td>191</td>
<td>General “C” Mount</td>
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<tr>
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<td>1481</td>
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