

Internal Aerospace Camera with Integral IR Illuminator



AD Aerospace's FV-0410 Internal Aerospace Camera is designed for use within the cabin of a commercial aircraft, to provide the overt but non-obtrusive monitoring of areas, such as the cockpit approach and passenger cabin.

The camera is monochrome to provide the clearest image and best contrast in the hugely variable light conditions found in aircraft flying at 50,000 feet. The Infra-Red (IR) Illuminators produce light at an 875nm wavelength which is invisible to the human eye but within the sensitivity of the camera. This allows clear images to be produced in low light situations, such as night-time light levels on an aircraft, and helps compensate when a subject is strongly backlit.

The units have a variety of lens options and colour finishes to suit most requirements.

| Specifications | |
|-------------------|---|
| Size | 140mm x 120mm x 52mm |
| Weight | 425g Maximum |
| Sensor | 1/3" interline transfer CCD |
| Sensitivity | Better than 0.01 Lux at f2.0 |
| Power Consumption | 80mA from the 28V source |
| TV Standard | 625 line, CCIR or 525 line, EIA |
| Light Control | Auto electronic shutter to 1/100,000 seconds |
| Field of View | Various lenses from 26 to 135 degrees |
| Material | Cast Parts: Aluminium Alloy to LM25 Fabricated Parts: Al Alloy to BSEN485:3103H4/5251H22, or 6061T4 |
| Paint Finish | Alocrom to Def Stan 03-18 Finish to suit cabin interior. |
| Resolution | Greater than 420 TV Lines per picture height (horizontal) in picture centre. Greater than 300 lines in the corners. |



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Specifications continued

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| Video Output | 1.0V p-p into 75R composite video (unbalanced), 50R or 100R balanced video as an option. |
| Elements | CCIR 320k elements or EIA 290k elements |
| IR Performance | 6 LEDs, at +/- 30 degrees cone, at 875nm |
| Connector | Single Mil-C-38999 connector |
| Environmental Qualification | ED-14E for Cabin Overhead mounted equipment, for use within an aircraft flying up to 50,000 feet but in an area normally pressurised to 15,000 feet. |
| Temperature | Operating: -15°C to +70°C Storage: -55°C to +85°C |
| MTBF | 50,000 hours |

