

# Internal Aerospace Camera with Integral IR Illuminator



AD Aerospace's FV-0411 Internal Aerospace Camera is designed to be fitted within the aircraft, in a pressurised, heated area. The camera is designed to be ceiling mounted, and to include a variety of mechanical mounting methods,

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 850nm 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 42mm
Weight	425g Maximum
Sensor	1/3" interline transfer CCD
Sensitivity	Better than 0.01 Lux at f2.0
Power Consumption	140mA 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 28 to 130 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

<b>Video Output</b>	1.0V p-p into 75R composite video (unbalanced), 50R or 100R balanced video as an option.
<b>Elements</b>	CCIR 320k elements or EIA 290k elements
<b>IR Performance</b>	12 LEDs, at +/- 60 degrees cone, at 850nm
<b>Connector</b>	Mil-C-38999 connector
<b>Environmental Qualification</b>	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.
<b>Temperature</b>	Operating: -15°C to +70°C Storage: -55°C to +85°C
<b>MTBF</b>	50,000 hours

