

External Airborne Video Camera



AD Aerospace's FV-0315 External Aerospace Camera provides quality video images in the harsh environment experienced by the external surfaces of an aircraft.

The camera is designed to be used external to an aircraft flying up to 50,000 feet. It is hermetically sealed and dry nitrogen purged to avoid internal misting and icing.

The window is aerodynamically shaped to allow water droplet removal as the aircraft moves in the air stream. It has no "edges" to prevent the entrapment of water droplets. The window is heated with an internally fitted 10W Kapton heater, which allows for the outside of the window to be de-misted and de-iced.

The design allows for a variety of lens options, to suit most requirements.

Specifications

Size	48.0mm x 82.0 mm long excluding connector
Weight	350g Maximum
Sensor	1/4" CCD
Sensitivity	Colour: 1.0 Lux. Monochrome: 0.01 Lux
Power Consumption	Maximum 3W Camera, plus 10W heating from 28V aircraft supply
TV Standard	625-line colour), CCIR (monochrome) or 525-line NTSC (colour), EIA (monochrome)
Light Control	Auto electronic shutter to 1/100,000 seconds
Field of View	Various lenses from 19 to 116 degrees
Resolution	Colour: Greater than 460 TV Lines. Monochrome: Greater than 520 TV Lines
Video Output	1.0V p-p into customer selectable termination



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Specifications continued

Material	Titanium
Window	Sapphire glass window single layer anti-reflective coating. Heated via a Kapton adhesive heater for de-icing.
Environmental Specification	RTCA DO160E (or ED-14E) Operating: -55°C to +45°C Storage: -55°C to +85°C Altitude: 50,000 ft

