

## 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

<b>Size</b>	48.0mm x 82.0 mm long excluding connector
<b>Weight</b>	350g Maximum
<b>Sensor</b>	1/4”CCD
<b>Sensitivity</b>	Colour: 0.05 Lux. Monochrome: 0.005 Lux
<b>Power Consumption</b>	Maximum 3W Camera, plus 10W heating from 28V aircraft supply
<b>TV Standard</b>	625-line colour), CCIR (monochrome) or 525-line NTSC (colour), EIA (monochrome)
<b>Light Control</b>	Auto electronic shutter to 1/100,000 seconds
<b>Field of View</b>	Various lenses from 19 to 116 degrees
<b>Resolution</b>	Colour: Greater than 540 TV Lines. Monochrome: Greater than 600 TV Lines
<b>Video Output</b>	1.0V p-p into customer selectable termination



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### Specifications continued

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

