

## External Video Camera Assembly

AD Aerospace's FV-0346 External Camera Assembly is designed to be used external to an aircraft flying up to 50,000 feet, and is sealed.

The window is aerodynamically shaped to allow water droplet removal as the aircraft moves in the air stream and has no "edges" to allow water droplets to be trapped.

The window is heated with an internally fitted 10W kapton heater, which allows for de-misting and de-icing functions.

The design has the lens option for satisfying the requirements for viewing the Main Deck Cargo Door and surrounding area.

The camera assembly is attached to the aircraft through mounting screws, and a cable is plugged in to a skin mounted connector which supplies power and provides the video connection.

### Specifications

<b>Size</b>	19.5" x 5.5" x 3.5" (495mm x 140mm x 89mm)
<b>Weight</b>	1500g Maximum
<b>Sensor</b>	NTSC 768 (H) x 492 (V)
<b>Sensitivity</b>	<b>Colour:</b> 1.0 Lux. <b>Monochrome:</b> 0.1 Lux
<b>Power Consumption</b>	Maximum 3W Camera, plus 10W heating from 28V aircraft supply
<b>TV Standard</b>	525-line NTSC (colour)
<b>Light Control</b>	Auto electronic shutter to 1/100,000 seconds
<b>Field of View</b>	90 degrees
<b>Resolution</b>	<b>Colour:</b> Greater than 460 TV Lines. <b>Monochrome:</b> Greater than 520 TV Lines
<b>Video Output</b>	1.0V p-p into 100 ohms balanced



## External Airborne Video Camera

### Specifications continued

<p><b>Material</b></p>	<p>Fairing: Investment cast Aluminium Alloy F357  Video Camera Body: Titanium alloy 6AL 4V  Doubler: Stainless Steel 316  Fasteners: Stainless Steel 316 Grade A2</p>
<p><b>Window</b></p>	<p>Sapphire glass window single layer anti-reflective coating. Heated via a Kapton adhesive heater for de-icing.</p>
<p><b>Environmental Specification</b></p>	<p>RTCA DO160G</p> <p><b>Operating:</b> -55°C to +70°C  <b>Storage:</b> -55°C to +85°C  <b>Altitude:</b> 45,000 ft</p>

