

Passenger Cabin Surveillance Solutions

Terrorist threats and air rage incidents aboard commercial airlines present a high level of risk to the safety of passengers and aircrew. AD Aerospace can provide sophisticated video security systems used for the prevention of air rage and terrorist crimes, by increasing the information available to pilots and crew.

The system consists of a series of covert and overt CCTV cameras, trained on the cockpit door and forward galley, and a dedicated, live viewing LCD monitor in the cockpit. Flight deck crewmembers can see what is happening immediately outside their cockpit during flight, assess the situation as potential hazards arise and restrict access to the appropriate personnel.

System Specifications

- Internal Colour/Monochrome, CCIR or EIA Cameras
- **Various Filed of View (FoV):** Ranging from 10 to 116 degrees
- Overt or Covert Cameras
- **Variety of Lens Options:** including Pin Hole Lens for Covert Mounting
 - **FV-0413** -> Maximum 6W per camera from 28V d/c supply
 - **FV-0421** -> Maximum 3W per camera from 12V d/c supplied through FV-0950 camera control unit
 - **FV-0406** -> Maximum 1.1 W from 9V d/c supplied through FV-0950 camera control unit
 - **FV-0411** -> Maximum 6W per camera from 28V d/c supply
 - **FV-0477** -> Maximum 3.1W from 28V d/c supply through the
 - **FV-0315** -> Maximum 3W Camera, plus 10W heating from 28V aircraft supply
- Light Control by auto shuttering means no moving parts.

Weight

Camera: 425g Maximum
LCD Monitor: 1600g Maximum
Video Transmission/Storage Unit: 4000g Maximum

Camera Options Continued

FV-0411: Internal Aerospace Camera, designed to be fitted within the aircraft ceiling trim, with incorporated IR Illumination. Camera comes complete with installation mounting, angling the camera at an ideal angle.

FV-0421: Covert Internal Aerospace Camera with a pinhole lens. It is designed to be mounted on a suitable secondary structure. A semi-covert housing is available but depending on the customer requirements and cargo bay layout, camera can be mounted as to be completely covert.

FV-0477: A covert HD-SDI video camera for general aerospace use. It is a 720p HD-SDI bullet camera externally controllable via

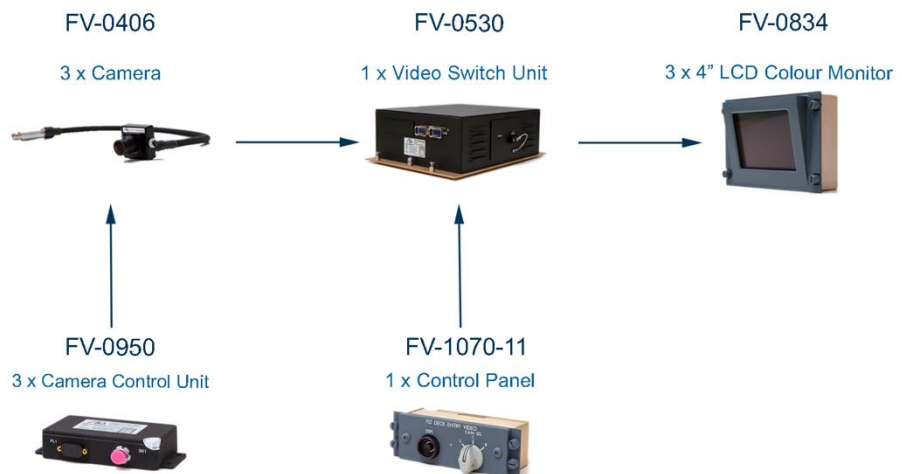


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	<p>RS485. HD-SDI which provides a nominal data rate of 1.485 Gbit/s, achieving HD resolution video which is transmitted over a 100Ω Quadrax cable.</p>
<p>Video Switch or Transmission Unit Options</p>	<p>FV-0530: Video switcher to control images from internal cameras installed on board an aircraft, designed with the restrictions as defined by Standard Cabin Systems Requirement Document: Boeing D6-36440 Rev C. The unit accepts video from up to 4 cameras and provides 3 balanced composite video output, each selectable independently, and with OSD camera titling.</p> <p>FV-0580: Video switcher designed to control images from external and/or internal cameras installed on board an aircraft. The design is intended primarily to satisfy a low-cost requirement for a Video Switch Unit. Unit accepts video from up to 4 cameras each on its own connector and powered directly by the unit. Unit provides 2 video outputs each selectable independently.</p> <p>FV-0710/FV-0610: Fully qualified (DO-160G) robust digital Video Transmission Unit (VTU) capable of streaming digital video over IP Ethernet links from up to 8 x balanced composite video signals. It is Electronic Flight Bag compatible but can also be streamed to any connected Ethernet device. The unit has 1x composite video output, and the video is recorded on removable flash storage for easy retrieval.</p>
<p style="text-align: center;">System Architecture:</p>	

Passenger Cabin Surveillance Solution

"Architecture Option 1"



Passenger Cabin Surveillance Solution (COMAC C919)

“Architecture Option 2”

FV-0461

8 x Cameras



FV-0519

1 x Video Switch Unit



EFB



Passenger Cabin Surveillance Solution

“Architecture Option 3”

FV-0710/0610

1 x Video Server



FV-041X/FV-0420

3 x Camera



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