

FlightVu Witness

Airline safety and security is threatened by both terrorist activity and passenger air rage. Aircrew members need to be aware of what is happening throughout the aircraft at all times to spot suspicious, threatening or unruly behavior early on. The FlightVu Witness video safety and security system is a powerful tool in the prevention of hijacks and air rage crimes enabling the aircrew to observe and record the entire aircraft from their normal seating positions. This aids decision making by increasing the crew's awareness of the situation and allows them to act quickly to take control of the situation.

Witness is a system of covert and overt CCTV cameras fitted throughout the passenger cabin and crew areas of an airliner connected to a state-of-the-art digital video server and compatible with Electronic Flight Bag technology. The presence of cameras deters potential troublemakers and the recorded video images, which are legally admissible, can be used to prosecute violent or disruptive passengers.



The digital video server can either record the entire flight or be triggered by alarms operated by the aircrew. Images on the server are labeled with date, time, camera and aircraft tail number. When an incident occurs "watermarking" facilities are available to identify the recording as first evidence and therefore qualified for use in court. The recordings also serve to prevent litigation by passengers claiming wrongful identification and to establish the exact chain of events leading up to an incident.

Witness can be expanded by the addition of cameras within the cargo hold, to provide evidence of baggage theft, or in other areas where safety and security of staff, passengers and equipment are an issue.

The Witness system assists aircrew by providing them with a low cost, on-board CCTV safety and security system. Recordings of incidents can also be used to help train cabin crew to deal with violent passengers.



SPECIFICATIONS



Recording Modes

The video server can be set up to record in two modes:

- A: Continuous recording covering the entire flight
- B: Triggered recording which is initiated by incident alarm

Recording Method

Recordings are made using a variation of JPEG compression techniques and are stored, at about 20KB per frame on a hardened hard disk drive.

Search Criteria

- Time / Date
- Event Log
- Rewind / Relay

Browser Settings

- User configuration
- Alarm configuration
- Camera configuration
- Video Motion Detection configuration

Equipment

Digital Video Server

- Ethernet 10/100 base T
- User friendly GUI (Graphical User Interface)
- Electronic Flight Bag compatible
- Power Input - 28V dc to RTCA DO160D
- Environmental Specification
 - A2A2CABHXXXXXAABZBTLXXA
- Software Spec - RTCA DO178B Category D
- Up to 16 video inputs
- Form Factor - ARINC600 4MCU
- Size - 320 x 124 x 195mm
- Weight – 4kg maximum
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Internal Cameras

- Monochrome or Color
- NTSC or PAL
- Overt or Covert
- Remote Head Camera Plus Camera Control Unit
- Variety of Lens Options: including Pin Hole Lens for Covert Mounting.
- Maximum 3W per camera from 28V a/c supply
- Camera weight 425g
- Monochrome Camera Sensitivity better than 0.01 lux
- Color Camera Sensitivity better than 1 lux
- Light Control by auto shuttering means no moving parts

The FlightVu Witness cabin security system can be expanded to form a comprehensive aircraft, safety and security system, covering external cameras and internal cameras located throughout the cabins, cargo holds and other areas of the aircraft.



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