



Advanced Video Surveillance System for Helicopters and Aircrafts



Flexible 

- Customizable & future ready
- Scalable & redundant
- Minimized adaptation

Simple 

- Easy to install and configure
- Compatible & interoperable
- Pay as you grow

Small 

- Efficient wiring
- Reduced weight
- Optimized cockpit space utilization

Orion™ Video is an innovative IP/AFDX-based video management platform, offering an end to end solution for various network-based video surveillance and monitoring applications for airborne platforms.

Featuring cockpit door surveillance, cabin monitoring and cargo observation, Orion™ Video enables pilots, air marshals, and other crew members to visually monitor activity inside and outside the aircraft, increasing situation awareness and aircraft/flight security.

Using this system, pilots can receive external/internal visual inputs of engine inlets, cargo bay, landing gear, flaps, etc. and display them on any of their cockpit displays. These advanced video surveillance capabilities provide crew members with solid visual information for decision making, accelerating response time in case of emergencies, and as a result, enhancing flight safety.

Orion™ Video also provides passengers with a stunning bird's-eye view of the outside world (as seen from the aircraft) directly on their entertainment system screens.

Live video footage can be viewed on board via a dedicated application on various types of displays, or streamed directly in real time to ground control rooms using ORBIT's airborne SatCom antennas. Video can also be recorded and stored on dedicated servers for post event analysis and query.

With its unparalleled flexibility and simplicity, Orion™ Video is a game changer for airborne video systems, enabling faster time to market and lower cost of ownership than ever before.

Orion™ Video Key Features

- HD Video
- Indoor and outdoor cameras
- Recording capabilities
- IP/AFDX interface
- Compliant and certified
- Switchless distributed system
- Inherent redundancy
- Non ITAR item



The main building block of Orion™ Video is the Camera Video System (CVS). This component constructs the network that enables video streaming from cameras to video screens, other CVS units, and recorders for full picture delivery in real time. Each CVS adds its own resources capabilities, allowing the system to scale to fit any small/medium airborne platform.

- 8 HD-SDI video inputs
- 8 control camera serial ports (RS485/422/232)
- 2 x HD- SDI video outputs
- 2 x CVBS video outputs
- 8 Open Ground (OG) Discrete Inputs
- 8 Open Ground (OG) Discrete Outputs
- 4 x Ethernet ports (AFDX ready)
- 4 x 100Base-TX (LAN) ports
- 1 (one) General Purpose RS232 port

- Dimensions:**
340W x 70H x 230D
- Weight:**
4.5 Kg
- Power Input:**
70 Watt @ 28V
- Compliance:**
DO-160G, DO178C, DO254D

Typical System Diagram

PATENT PENDING

