Digital Video Recorder
and Storage Unit for Aircraft
Video Security System

Requirements
Provide an in-flight video recording system for security monitoring in commercial aircraft. Provide support for uninterrupted video feeds from cameras positioned throughout the aircraft.

Solution
Elma provided a rugged system supporting up to 20 camera feeds and 50 hours of recording time. The system includes a high performance CPU and provides easily removable data cartridges housing solid state drives for reliable performance in harsh environments. The system allows for data storage removal for post-flight review with the ability to operate in harsh avionics applications environments.

Benefits
• Fast data storage removal allows faster analysis of critical flight data
• Exceptional storage capacity and recording speed ensures complete and accurate flight videos
• Solid state drives help ensure data survival in severe circumstances

Features:
• Supports up to 20 security camera feeds for aircraft cabin monitoring
• Up to 7 fiber optic 1000BaseSX interfaces
• Dual 512GB front-removable solid state drives with increased capacities available
• 4 MCU ARINC 600 (or 1/2 ATR per ARINC 404) box with convection-conduction cooling
• 115V AC, 72W, 360 – 800MHz power supply
• Weight approximately 17lbs
• High performance, low power Intel CPU
• Audio, video stream and ancillary data scrambling
• Windows 7 OS
• Fully tested and integrated system for ease of installation