

Digital Video Recorder



Elbit Systems of America's DVR is a state-of-the-art video, audio and data recorder, along with data and file server. The compact unit enables recording video and audio channels on a solid state memory cartridge. Based on commercial off-the-shelf (COTS) components, DVR complies with stringent airborne data recording and mission debriefing requirements. DVR's advanced design has no moving parts assuring high reliability in all conditions. With built-in growth potential, it is configurable from one to four video channels and can accommodate additional communication. The unit can operate stand-alone or integrate with existing systems as part of system upgrade programs.

Applications

- Mission planning and debrief
- Data and application server
- Muxbus RT and OFP uploading
- Real-time trainer and simulation manager

Features

- Open architecture design
- Expansion capacity
- Easily upgradeable memory
- Flight certified and in production
- Designed for easy adaptability to several aircraft platforms



Digital Video Recorder

Features

- Record video, audio and Muxbus on a single data cartridge
- Simultaneous record and playback on vehicle
- Up to 20 hours total record time (@ 32 GB)
- Standard PC file formats
- Control capabilities: panel, discrete, RS-422, ethernet, Muxbus
- High speed communications channel (ethernet 10/100 Base T)
- MTBF > 6000 hours
- Digital video debrief station and personal computer debrief system up to four synchronized video sources
 - Tactical debriefings from individual soldier to battalion level
 - Battle damage assessments
 - Monitoring training parameters and events
 - Maintenance diagnostics
- Compatible with COTS PC software (example: Media Player)

Video:

- Video encoding in MPEG2 format
- Single playback channel
- Selectable compression quality
- Compression bit-rate per channel – 2Mbit/sec to 6Mbit/sec
- NTSC, PAL, S-Video, RGB

Audio:

- Real time analog to digital conversion and storing of two audio inputs (12 KHz BW)

Storage:

- 32 GB standard, up to 128 GB optional

Technical Specifications

- Electrical characteristics:
 - Power consumption <35W
 - Input 28 VDC, Mil-Std-704A
- Dimensions: 5.83"W x 4.72"H x 6.34"D
- Weight: 6.6 lbs
- Environmental conditions:
 - Operation temperature: -40°C to 71°C
 - Storage temperature: -55°C to 95°C
 - Environment: MIL-STD 810-E
 - EMI: MIL-STD-461C
- Communication:
 - High-speed communication channel (Ethernet 10/100 Base T) connection
 - Two to four 1553 Muxbus channels
 - RS-232, RS-422
- Growth:
 - Ethernet switch capability
 - Separate compact flash card for unclassified maintenance data
 - Potential for increased situational awareness through sensor fusion



Elbit Systems of America, LLC
4700 Marine Creek Parkway, Fort Worth, Texas 76179 USA
www.elbitsystems-us.com