Both a Digital Video Recorder and a Data Transfer System

- Dual purpose unit provides Digital Video Recording and Data Transfer functions
- In-flight playback
- Up to 2 hours video and audio recording
- S Video or Composite Video
- Standard PCMCIA Flash Cards
- Ethernet or 1553 Mux Bus interface for DTS
- Fully qualified per Mil-Std-810F
- Optional NVG compatibility

The Digital Video and Data Recorder (DVDR) operates as a compact self-contained system that provides two functions in a single unit. The DVDR operates as both a Video/Audio Recorder/Reproducer, as well as a standard Data Transfer System (DTS). The unit utilizes solid state FLASH memory as its recording/reproducing media. Packaged in either a compact Panel mount unit or mounted in an avionics bay, the system provides reliable video/audio/data storage and is qualified to meet the most demanding environments. The unit has been tested to meet MIL-STD 810 and MIL-STD 461 requirements and complies with the requirements of RTCA DO-160.

The DVDR performs video and audio compression and stores it, combined with a data stream, on the FLASH memory cards. It provides a low power, light weight solution for applications requiring a reliable data transfer function, including the transfer of large amounts of data. Standard video compression algorithms (MPEG 1, 2, 4) are used. Synchronous playback of video, audio and data is achieved using commercially available hardware and software.

The DTS interfaces to aircraft avionics via a MIL-STD-1553 Mux Bus interface or via an Ethernet 10/100 BaseT link. It can also operate simultaneously on both channels.

Its 2-slot construction can house 2 PCMCIA cards (Type I, II or III), that can operate as 2 separate disks. Read and Write operations can be addressed to either one, providing operational flexibility. Access to either, or simultaneously to both, slots is defined by the users Operational Program and as commanded by the Host Computer.
**Basic Specification**

- **Interfaces:**  
  S-Video/Composite Video, Audio  
  Mil-Std-1553 – Remote Terminal or Bus Monitor  
  Ethernet 10 BaseT, RS-422/485 (optional)

- **Compression:**  
  MPEG-1, MPEG-2, MPEG-4 (selectable)

- **Frame Rates:**  
  Fixed (NTSC or PAL) or variable

- **Bit Rate:**  
  Constant or variable (22.5 Kb/s to 15 Mb/s)

- **Resolution:**  
  H = 128 to 720, V = 80 to 480 (NTSC) or 576 (PAL)

- **Storage:**  
  PCMCIA Type I,II or III, 2 slots

- **Installation:**  
  Dzus mounted (MS25213) or Internal mount

- **Power:**  
  28 VDC, Mil-Std-704A, max 10 watt

- **Weight:**  
  Less than 2 Kg.

- **Environmental:**  
  Temperature:  
  Operating: -40°C to +70°C  
  Storage: -40°C to +85°C

  Humidity: 95% RH

  Vibration:  
  Functional: 7.6 grms 5-2000 Hz  
  Endurance: 9.8 grms 5-2000 Hz

  Shock:  
  Functional: 17 g, 40msec

  Altitude: 50,000 ft

  Salt Fog: Mil-Std-810F, Method 509.4

  Acoustic Noise: 35 db, 15 minutes

  Acceleration: 8g peak

- **RFI:**  
  Compliant with Mil-Std 461

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