

Mission Data Recorder

The MDR-80 Offers

- Best technology insertion path for transition to digital mission recording
- Plug-in application cards provide flexible operational configurations
- Basic unit—single channel video. Add-ons include: additional video channels, 1553, ACMI, video image capture and “smart” control
- Cost-effective approach—Form, Fit, and Function replacement for the TEAC V-80 series of AVTR[®]
- Support of the TEAC V-80 serial I/O communication protocol
- Simultaneous record and playback
- MPEG-2 video compression; selectable bit rates
- Up to four (4) channels of video recording via user application cards
- Dynamic modification of video and audio encoding bit rates
- User and/or aircraft controls via the high-speed or low-speed data bus(es)
- Software configuration control enables upgrade and expansion without hardware modification
- Solid State Removable Memory Module (RMM) interfaces directly to ground debriefing station via industry standard interface
- Multiple RMM configurations available
- Industry standard processor architecture and operating system assures supportability
- Optional time-synchronized ACMI data recording via application-specific ACMI card
- 10 Base T/100 Base T



Digital • Solid State

General Specifications

Video

Video Signal Standard:	EIA RS-170 or NTSC; CCIR (PAL)
Horizontal Resolution:	500-TVL nominal (Selectable by bit rate)
Linearity:	10 gray scale or better
S-to-Noise Ratio:	Better than 43dB
Input Options:	Composite, Y/C and RGB
Outputs Options:	Composite, Y/C and RGB

Audio

Number of Channels:	One (or Two)
Input Level:	0.9Vpp nominal, (-10dBV)
Input Impedance:	10K ohm
Output Level:	0.9Vpp (47K ohm load)
Bandwidth:	50Hz to 15KHz
Signal-to-Noise Ratio:	Better than 40dB

Power

Requirement:	28VDC (+4V, -8V) unregulated, MIL-STD-704A, MIL-STD-704D, MIL-STD-704E
Consumption:	35 watts nominal at 28VDC

Weight: 7.6 pounds (3.5kg) Nominal

Dimensions

Width:	5.9" (149mm)
Height:	4.8" (122mm)
Depth:	6.4" (162mm)

Dimensions exclude connectors and handles.

Operational Position

Any Direction

Installation

The MDR-80 can be installed both vertically or horizontally, 4 ways. Tray mount Dzus-rail mounts available.

Connectors

Power:	Bendix PT02E-10-6P type
Control and Signal:	Bendix PT02E-18-32P type (Optional MIL-C-38999, Series 3 connectors available)

User Application Cards

- MPEG-2 video, 1 and 2 Channels
- 1553 recording, up to 4 Channels
- PCM recording, up to 3 Channels
- Autonomous ACMI



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