

## Hi-8mm Video Recorder

### The V-83 Offers

- Fully qualified to MIL-STD-810D and MIL-STD-461C
- Hi-8mm S-Video format provides 400 TVL resolution
- GPS/IRIG time insertion card options built into recorder
- Compatible with commercial Hi-8mm or 8mm videotape cassettes
- NTSC, PAL, and special 875-line units available
- Ruggedized design for high MTBF in severe military environments
- Operates directly off MIL-STD-704 +28VDC military power
- Completely environmentally sealed against moisture, sand, and dust
- Tapes locked in place for proper operation in all mounting positions & high g-loads
- Mechanical tape load/unload without power
- Event mark generation and detection
- Automatic built-in heater; thermostatically controlled
- Full function manual and remote control (discrete and RS-422)
- BIT status feedback (discrete and RS-422)
- Military locking connectors for positive connection
- Visible time code overlay
- Compatible with inexpensive commercial VCRs for ground playback
- Options for RGB input, scan conversion, and multiplex operations
- Available off-the-shelf



### Applications

- Video recording in harsh environments; high vibration, shock, acceleration, and dust and moisture environments
- Flight and ground test instrumentation
- HUD camera, FLIR, radar, night vision systems, MFD/DDI, RWR recording
- External/internal video observation for civil, military, and space applications
- Pilot training, testing, and qualification
- Post-flight debriefing
- Reconnaissance recording for military, coast guard, customs, forest service, law-enforcement, and environmental protection agencies

### Specifications: V-83AB-F

<b>RECORDING DECKS:</b>	Three (3) independent (2 optional for the V-82)
<b>TAPE FORMAT:</b>	Hi-8mm and 8mm (NTSC/PAL/S-Video)
<b>RECORDING TIME (MINUTES):</b>	120 minutes each deck or 360 in series (NTSC)
<b>FUNCTION:</b>	Record and Playback
<b>POWER REQUIREMENT:</b>	+28vdc MIL-STD-704D
<b>POWER CONSUMPTION:</b>	45W max (135W with heaters); separate power
<b>DIMENSIONS:</b>	243mm(W) x 151mm(H) x 330 mm (D)
<b>WEIGHT:</b>	Less than 8kg max
<b>CONTROL INTERFACE:</b>	DISCRETE and RS-422
<b>HORIZONTAL RESOLUTION:</b>	400 TV lines (nominal)
<b>VIDEO S/N:</b>	43db (unweighted)

<b>NUMBER OF AUDIO CHANNELS:</b>	ONE for each deck (2-channel stereo optional)
<b>OPERATING TEMPERATURE:</b>	-40°C to +60°C
<b>STORAGE TEMPERATURE:</b>	-55°C to +95°C
<b>VIBRATION:</b>	MIL-STD-810D 514.3
<b>ACCELERATION:</b>	MIL-STD-810D 513.3, II; 10 g's
<b>SHOCK:</b>	•MIL-STD-810D 516.3, I; 20 g's (OPERATING) •MIL-STD-810D 516.3, V; 40 g's (CRASH SAFETY)
<b>SALT FOG/DUST:</b>	MIL-STD-810D
<b>EMI:</b>	MIL-STD-461C, All Tests
<b>REMOTE CONTROL UNIT:</b>	VS-83F (lab) VS-83RCH (hand held) VS-83RCH-F (hand held)



### MISSION DATA RECORDERS