

ALL-S/TAR™ ADR (Acoustic Data Recorder)



Strategic/Tactical Airborne Recorder

The Next Generation in Acoustic Data Recorders | Selected for US Navy P-8A Poseidon

PRODUCT DESCRIPTION

The ADR (Acoustic Data Recorder) is a state of the art, NATO STANAG 4283 compliant, avionics grade, data storage system used for collection of sonobuoy data. Our system features the L-3 Communications 480GB, HiPERDisk™/HiPERFlash™ Removable Media Module (HRMM). Multiple HRMMs can be used to satisfy specific mission requirements. Post mission, the HRMM is removed from the ADR integrated chassis assembly and processed via a standard SATA (Serial ATA) interface at our companion HRMM Media Management Station (HMMS).



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ADR with HiPERDISK™ / HiPERFLASH™

- Ruggedized Media
- SATA Interface
- 480 GB of Storage
- 8 lbs, 8.6" x 2.5" x 10.5"

FEATURES

- STANAG 4283 Compliant
- Record/Play 64 Sonobuoy Channels
- Record/Play 2 Audio Channels
- 4 Analog Monitor Outputs
- Record/Play Rate 10Mbytes/sec
- Media Transfer Rate 100Mbytes/sec
- Gigabit Ethernet Interface
- Embedded Mission Time Clock
- Robust Built-In Test
- Ruggedized Removable Media
- 480GB of Storage (HiPERDisk™)
- Ruggedized ATR Style Enclosure
- Size - 10.6" H x 9.1" W x 18.9" D
- System Weight 38 lbs
- Power 100 Watts

APPLICATIONS

- Acoustic Sub-System Recorder
- Sonobuoy Processing
- Embedded Signal Processing Collection

PLATFORMS/SYSTEMS

- P-8A MMA
- P-3C
- ASW Rotary Platforms
- Maritime Patrol Aircraft

ALL-S/TAR™ ADR (Acoustic Data Recorder)



PHYSICAL CHARACTERISTICS

Volume: 1.06 CuFt (1823 in³) Including Handle
Size: 10.6" H x 9.1" W x 18.9" D
269 mm H x 231mm W x 480mm D
Weight: 38 lbs; 17.3 kgs
Power: 100 watts (120 watts with heater)
115 VAC 47-400Hz single phase
Cooling: Forced Air Convection

PERFORMANCE CHARACTERISTICS

- Storage Capacity: 480 Gbytes
- Typical Mission Record Time: 13 Hours
- Input/Output Channels:

Channel Type	Number of Channels	
	Inputs	Outputs
Analog (0.01-20KHz) Expandable to:	2 8	6 8
Data (Gigabit Ethernet) Expandable to:	1 Full Duplex 3 Full Duplex	
Discretes (General Purpose) Expandable to:	1 8	- 8
Serial I/O (RS-232/422/485) Expandable to:	1 7 full duplex	
USB I/O (2.0) Expandable to:	- 3 full duplex	

SPECIAL FEATURES

- Time Stamping: Yes
- Simultaneous Record/Monitor: Yes
- Variable Data Rate: Yes
- MTBF: >10,000 hrs
- NSA 9-12 Secure Erase: <2 minutes

Charlene Caputo

L-3 Communication Systems-East
1 Federal Street
Camden, NJ 08103 USA
Phone: 856-338-2200
Email: charlene.caputo@L-3com.com
www.L-3com.com/star

ACCESSORIES

- HRMM Media Management Station (HMMS)
- Recorder Mounting Tray

ENVIRONMENTAL QUALIFICATIONS

	Operating	Non-operating
Temperature	0°C to +45°C	-40°C to +71°C
Altitude (max)	11,000 ft	40,000 ft
Humidity (non-condensing)	10% to 95%	10% to 95%
Shock (half-sine)	10 G, 11 ms	10 G, 11 ms
Vibration (random)	2.7 Grms, 10 to 2000 Hz	4.6 Grms 10 to 2000 Hz

DESIGN COMPLIANCE

- EMI/EMC: MIL-STD-461E
- Power: MIL-STD-704E, A cat B note 3
- Environmental: MIL-STD-810F
 - Random Vibration: Meth 514.5 Proc I
 - Non-Operating Shock: Meth 516.4 Proc I
 - Low Temperature: Meth 502.4 Proc I & II
 - High Temperature: Meth 501.4 Proc I & II
 - Temperature Shock: Meth 503.4 Proc I
 - Altitude: Meth 500.4 Proc I & II
 - Explosive Atmosphere: Meth 511.4 Proc I
 - Humidity: Meth 507.4 Proc I

Chris Duckling

Business Development Europe
Many Oaks, 39 Collington Lane West
Bexhill-on-sea
E.Sussex
TN39 3TD, England
Phone: +44-1424-845-384
Mobile: +44-7946-386-392
Email: chris@manyoaks.co.uk

