

L-3 AR Maritime Products

HARDENED VOYAGE RECORDER (HVR 02)

The L-3 Hardened Voyage Recorder (HVR) is a state-of-the-art final recording medium stored within a protective capsule, configured to remain fixed to a ship in all circumstances. The unit is tamper-proof and designed to survive a marine incident such as a fire, explosion, collision, or sinking. The HVR meets or exceeds the performance standards set out in IMO resolution A.861(20).



KEY FEATURES

- Compact and lightweight design
- Standard memory capacity exceeds 12 hours of voyage data (RADAR, audio and sensor)
- Scalable memory capacity for long term recording
- Long life, low operating power
- Meets or exceeds all required IEC 61996 and 60945 test specifications
- Non-proprietary web-based interface for setup and status
- Common software interface with previous models
- TCP/IP interface guarantees accurate data transmission between VDR and capsule



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HARDENED VOYAGE RECORDER (HVR 02)

PHYSICAL DIMENSIONS

Height:	218.33 mm (8.60 in)
Width:	182 mm (7.2 in)
Diameter:	177.8 mm (7 in)
Weight:	8.66 kg (19.6 lbs)

POWER REQUIREMENTS

Requirements:	24V DC
Consumption:	5W (75m run)

CABLING

Data:	TCP/IP Ethernet CAT 5e cable (75m or less)
Power:	DC power cable AWG #20 (or less)

RECORDING TIME

12 hours of radar, sensor and audio data

ENVIRONMENTAL

Shock:	IEC 68227 50 g, 11 ms, half-sine shock
Penetration:	250 kg, pin diameter of 100 mm at 3 m
Fire Protection:	50,000 BTU/sq ft/hr for 60 minutes at 1100° and 10 hours at 260°C
Pressure:	6000m depth

UNDERWATER ACOUSTIC BEACON

SAE AS 8045 compliant, supplied with unit

TECHNICAL STANDARDS

IEC 60945 (exposed)
IEC 61162
IEC 61996 (for fixed capsules)
BSH/6543/080252/2002

IMO VDR CARRIAGE REQUIREMENTS

Under regulation 20 of SOLAS chapter V on Voyage data recorders (VDR), the following ships are required to carry VDRs:

1. Passenger ships constructed on or after 1 July 2002
2. Ro-ro passenger ships constructed before 1 July 2002 not later than the first survey on or after 1 July 2002
3. Passenger ships other than ro-ro passenger ships constructed before 1 July 2002 not later than 1 January 2004
4. Ships, other than passenger ships, of 3,000 gross tonnage and upwards constructed on or after 1 July 2002

L-3 Aviation Recorders Quality Management System is ISO 9001:2000 and AS9100:2004 Rev. B Certified

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Aviation Recorders

L-3. Headquartered in New York City, L-3 Communications is a prime contractor in C3ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems, aircraft modernization and maintenance and government services. L-3 is also a leading provider of a broad range of electronic systems used on military and commercial platforms.

This technical data and software is considered as Technology Software Publicly Available (TSPA) as defined in Export Administration Regulations (EAR) Part 734.7-11.

Data contained within this document are summary in nature and subject to change any time at L-3's discretion. Call for latest revision.

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