

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



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HARDENED VOYAGE RECORDER (HVR 02)

PHYSICAL DIMENSIONS

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

POWER REQUIREMENTS

Requirements:	24VDC
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 AS9 100:2004 Rev. B Certified

Aviation Recorders

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communications
Aviation Recorders

L-3. Headquartered in New York City, L-3 Communications employs over 64,000 people worldwide and is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems. The company reported 2007 sales of \$14 billion.