



# X-VHFR

## A new generation of Mini Voyage Data Recorder

### | KEY FEATURES |

Communications are a vital part of marine operations. The X-VHFR is installed on-board a vessel and stores communication and location data that may be used for marine incident investigation, dispute resolution, management, and training. The X-VHFR is also suited to installation on land based port and harbour control facilities.

All vessels are at risk of collision or subject to other incidents. This risk is higher in specialist environments and busy waterways. There continues to be an increase in international offshore development such as wind farms where, statistically, there is an increased risk of incident due to congestion and higher volume vessel operations.

At AMI we are working with the Maritime industry to offer a best practise solution to all small vessel operators who wish to record data, yet are not mandated on their particular vessels to install and operate a full VDR or SVDR system. The X-VHFR offers a perfect solution that is low cost and easy to install. It is simple for any user to play back the data via a playback suite on any Windows based PC, from Windows 7 to current updates.

The user can select time and date stamped data for playback in order to construct an accurate history of events, for investigation and evidence purposes following collisions, near misses, man-overboard incidents or simply for training and education purposes.

## X-VHFR Features:

- External storage with 64GB or 1TB options
- Data Storage for 6 days or 90\* days of typical recording
- Clear touch screen display with power and recording indicators for ease of use
- VHF Audio Recording if compatible VHF radio available
- GPS time and date recording
- AIS data recording
- GPS position recording
- Easy playback software from any PC
- Night vision mode
- Console and ceiling mounting capabilities which are suitable for most bridge environments
- Power nominal 24 volts DC
- Optional screen cowling for use in bright sunny conditions (1TB model supplied as standard).
- Optional 64GB Float Free Capsule (fitted with EPIRB, an IMO compliance capsule) can be supplied to ensure safe retrieval of data, eliminating risk of distortion to recorded data.
- Bridge Audio recording (optional solution)
- Multiple NMEA0183 data sources can be recorded with use of optional data combiner via the GPS channel, maximum to 8 individual NMEA channel.

## APPLICATIONS



### CREW TRANSFER

Vital evidence demonstrating safe use of the vessel may be recorded using the standard 64GB or the extended memory 1TB version. Any questions regarding vessel location and communication at any given time can easily be proved with simple to use playback software. In higher risk environments, the Float Free data storage capsule with EPIRB may be used for added peace of mind.



### CONSTRUCTION - OFFSHORE

Record important data during construction and delivery of equipment. The offshore renewables sector has requirement for complex interaction between multiple vessels and engineers based on installation sites. Evidence of conversations and important data will be recorded for future use. The 1TB option is recommended for this application.



### OSVs and WORKBOATS

Typical configuration for small to medium sized work boats would be the standard scope X-VHFR with 64GB memory storage and simple to use playback software. Record vital evidence to prove fulfilment of contractual obligations – delivery of goods or personnel.



### TUGBOATS

Use the 1TB option with up to 90 days of continual recording and store data without the need to frequently download to a PC. Any communication issues arising between masters or pilots or between the tugs working together can easily be confirmed along with GPS/AIS data and bridge communications. Incidents or collisions can be investigated more accurately if the bridge microphone option is installed.





### **COMMERCIAL - UNDER 3000 GT**

A fantastic idea for ship owners to monitor and ensure correct uses of their vessel while under charter. Demurrage claim enquiries or disputes may be assisted by confirming vessel location and communications with port authorities. Record interactions with towage vessels or supply vessels and store evidence from collisions or crew-related incidents via bridge mounted microphones.



### **FERRIES**

Carrying passengers in domestic waters – whether on the open sea or on rivers, record all important radio communications together with preferred data concerning bridge or decks. This simple to use equipment is flexible to meet the needs of ferry operators. Add a float free data storage capsule for additional data protection. Bridge microphones are also recommended. The X-VHFR, when linked with an AMI data combiner will also record wind speed and other vital information.



### **EMERGENCY SERVICES AND SEARCH AND RESCUE**

Complex operations may be recorded by the X-VHFR. Use the 1TB storage memory option for maximum benefit and convenience. Record radio communications between the operators together location and other data. Ideal for use with Police, Fire, and Border Control services.



### **FISHING VESSELS**

Connect a depth sounder to the X-VHFR and record depth of waters being fished. Record evidence of location, time, and depth of water for proof of legal operation in or near restricted areas. Simple playback allows for fast and effective production of evidence in the event of dispute or allegation.

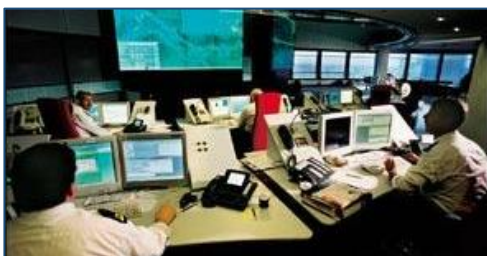
## **MANAGEMENT**



### **MANAGEMENT ORGANISATION**

Obtain data from your fleet and analyse for operational improvement opportunities. Alternatively archive the data for use in legal or regulatory disputes. Protect your organisation by having evidence that is easily made available at short notice with simple to use playback software that may be used by any member of staff able to operate a PC.

## **PORT AUTHORITIES AND MARINAS**



### **PORT AUTHORITIES (LAND BASED)**

A fantastic tool offering support for the demands of land based Port Authorities that require recording of all VHF radio communications within their jurisdiction of control. Use the large 1TB memory for maximum convenience. Archive the data or playback using a PC. A specially designed on-site hardened data capsule which is fire protected and tamper protected can be supplied to safeguard all recorded information



### **MARINAS (LAND BASED)**

Record and confirm all launch requests and monitor communications between officials, service providers, authorities, skippers, owners and customers. Ensure that evidence is retained for dispute resolution following collisions, man-overboard situations or other accidents and incidents. The compact fixed data recording capsule is ideal for protected and safe on site storage of recorded data, allowing for data playback in a disaster recovery situation.

## | AMI - WORLD LEADING TECHNOLOGY |

The X-VHFR is the latest addition to AMI Marine's portfolio of high quality and reliable data recorders.

AMI has been the leading designer and manufacturer of voyage data recorders for more than 20 years and has hundreds of systems in operation around the world. Our equipment is to be found on all types of vessels, and also in marine operations offices on land.

AMI's customers include the largest blue chip fleet operators and vessel fleet management companies, through to individual vessel owners and sole trader businesses. Cruise liners, tankers, bulk cargo ships, through to workboats, ferries, fishing fleets and even leisure craft have installed and operating AMI's high quality recording and playback devices. AMI also provide voyage data recording services to Navy's vessels around the world. Our military specialists are available for collaboration on new build and retrofit projects.

The AMI range includes mandated and non-mandated recording equipment. The X-VDR and X-VDR(S) are mandated for certain vessels. The X-VHFR and X-MDR offer an opportunity to adopt best practise on vessels which do not have a regulatory requirement to carry a voyage data recorder. Manage risk and acquire protection against unjustified challenges by operating the X-VHFR from AMI.

## | AMI MARINE PORTFOLIO OF X SERIES DATA RECORDERS |

High quality technology meeting the needs of vessel operators and owners, from the smallest vessels to the largest.



**X-VHFR**



Best practise for non-mandated vessels. Provides evidence in case of incident. Confirms vessel location and communications



**X-MDR**



Best practise for non-mandated vessels. Provides evidence in case of incident. Confirms vessel communications and location and a range of important data including radar and IP camera images.  
(\* Avail Q3/4 2017)



**X2272B S-VDR**



Mandated use of Simplified VDR. Applies if the vessel is not a passenger vessel and is over 3000GT and was built before 2002.



**X2-VDR**



Mandatory for vessels over 3000GT, Plus all passenger carrying vessels in international waters.

Please note that should you have a special requirement our dedicated development team create a solution for you. All AMI recording equipment is flexible and can acquire / store many forms and volumes of data.

\*WHEELMARK, DNVGL, RMRS, CCS\*