

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008BY

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

That the Voyage data recorder (VDR)

with type designation(s)
X2 VDR

Issued to

AMI Marine Ltd.
Southampton, Hampshire, United Kingdom

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2022/1157,**

item No. MED/4.29. SOLAS 74 as amended, Regulations V/18, V/20 & X/3, IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87), IMO Res. MSC.333(90)

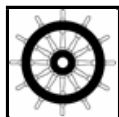
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-06-04.**

Issued at **Høvik** on **2023-06-05**

DNV local unit:
UK & Ireland CMC & VMC

Approval Engineer:
Tommi Juhani Rifaat



Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

The X2 VDR comprises combinations of the following components:

Unit Description	Model Name	Remark	Location
Main Electronic Unit (MEU)	MEU-0017		Protected
Touch Screen Monitor (TSM)	DSP-0018		Protected
Video Capture Card Kit	KIT-0012		Protected
External Microphone	MIC-0012		Protected
Internal Microphone	MIC-0013		Protected
Fixed Hardened Capsule	CAP-0001		Protected
Jotron Float-Free Capsule	CAP-0013		Protected
Uninterruptible Power Supply	PSU-0005		Protected
Software	v1.3.5.13		

Application/Limitation

- The X2 VDR is to be installed according to manufacturer's documentation.
- Local Area Network connection may be used for transfer of screen images from ECDIS and Radar using LAN interface protocols in IEC 61996-1, Annex E.
- See Installation, operation and maintenance manual for details on recording capacity of screen images.

Type Examination documentation

DNV No	Drw No	Rev	Title
75	DK-MED000144	01	Certificate: TUV SUD, Tron 40VDR AIS MED-B certificate
20	09006	02	Data Sheet: AMI, X2 VDR
16	08012	07	Manual: AMI, VDR Replay Operational Guide
18	08022	01	Manual: AMI, X2 / X-VDR 61162-450 Setup Guide
76	0803	17	Manual: AMI, X-2 VDR Installation Manual
77	0803	9	Manual: AMI, X-2 VDR User Guide
13	08009	05	Manual: AMI, X-VDR User Manual for Remote Data Download Tool
56	360-19900-F3e	2015-12-1	Manual: Novega, Nemo 2.0 user manual
68		2023-05-03	Report: AMI, X2 VDR 61162-450 (2018) Test Report
66		2023-03-23	Report: AMI, X2 VDR IEC 62288 (2021) Test Report
67		2023-03-23	Report: AMI, X2 VDR IEC 62923-1/2 Test Report
39	657		Report: BSH, Compass Safe Distance Nemo capsule
30	CML/T1006/1	1	Report: Compliance Maritime, Performance testing AMI X-VDR Bridge & Audio
32	CML/T1007/2	1	Report: Compliance Maritime, VDR Display 61996-1 tests
31	CML/T1007/1	1.1	Report: Compliance Maritime, VDR Display 62288, 60945 tests
50	CML/Inspection/T1007/1	1.1	Report: Compliance Maritime, X-VDR 62288 & 60945 display test
52	9049-15-12345-157		Report: DNVGL, X-VDR 60945, 61162-1/2, 62288 & 61996-1 test report
55			Report: GL, 61996, 61162-1, 60945 & 62288 test report
47	2219512KAU-001	01	Report: Intertek, EMC test PT9 NINETY, Nemo 2.0
23	9269-R01	01	Report: ISVR, VDR Acoustic Noise and Signals test
29	0595100	00	Report: Krauss, Nemo & PT9 NINETY IEC 60945 testing
26	E13261.04	04	Report: Nemko, Jotron Free float environmental + performance tests (61097-2, 60945, 61996-1)
51		2012-11-09	Report: Nemo 61196-1 Penetration test (german)

DNV No	Drw No	Rev	Title
48	360-19900-00-0002	1	Report: Novega, Nemo 2.0 shock test 61996-1
45	TP-TR50-9209	1	Report: Novega/IAGB, 61996-1 Capsule Shock test Nemo 2.0
62	75953470-01	01	Report: Tuv Sud, climate and power supply test Microphones
24	75934964-1	01	Report: TUV, X-VDR EMC + compass safe dist. test
34	75925015-2	1	Report: TUV, X-VDR, 60945 Enviromental testing (temp., vibration)
33	75925015-1	2	Report: TUV, X-VDR, IEC 60945 EMC and Compass distance tests
61			Statement: AMI, IEC 60945 12.1 Declaration

Tests carried out

- Performance - EC 61996-1 (2013) + A1(2021)
- Serial Interface - IEC 61162-1 (2016)
- Serial Interface - IEC 61162-2 (1998)
- LAN Interface - IEC 61162-450 (2018)
- Presentation - IEC 62288 (2021)
- Environmental - IEC 60945 (2002) (incl. Corr.1,2008)
- Bridge alert management - IEC 62923-1 (2018) and IEC 62923-2 (2018)

Marking of product

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to at least one part of the product. In addition the various equipment shall be marked with serial number. Safe distance to magnetic compass and power consumption and/or supply voltage may be stated in the individual installation manuals.