



Marine & Offshore

Certificate number: 36533/C0 MED

File number: NAV12/29805/3

Item number: MED/4.30

This certificate is not valid when presented without the full
attached schedule composed of 7 sections
www.veristar.com

Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2018/773 of 15 May 2018

This certificate is issued to:

iXblue S.A.S

SAINT GERMAIN EN LAYE - FRANCE

for the type of product

ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEM (ECDIS) WITH BACKUP, AND RASTER CHART DISPLAY SYSTEM (RCDS)

Gecdis-8 / SENIN

Requirements:

SOLAS 74 Convention as amended, Regulations V/18, V/19, X/3
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 13
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 13
IMO Res. A.694(17)
IMO Res. MSC.191(79), MSC.232(82), MSC.302(87)
IMO MSC.1/Circ.1503.Rev.1
IEC 60945 (2002) + /Corr. 1 (2008),
IEC 61162 series: IEC 61162-1 (2016) - IEC 61162-2 ed1.0 (1998-09) - IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11)
and am2 ed. 1.0 (2014-07) - IEC 61162-450 ed1.0 (2011-06) with am1 (2016),
IEC 61174 Ed. 4.0 (2015),
IEC 62288 Ed. 2.0 (2014-07).

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.


This certificate will expire on: 26 Jul 2022

For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV SAINT QUENTIN-EN-YVELINES, on 04 Sep 2019,

Antoine PERRIN



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

ECDIS (Electronic Chart Display and Information System) & RCDS (Raster Chart Display System) with Radar Overlay Type: Gecdis-8 / SENIN

1.1 Hardware:

#	Component	Supplier	Type / Version
1	<u>Main processing unit</u>	- Hatteland Display AS - ISIC A/S	HT 22IHx HT CO2Hi HT CO2Hx PCM4 – Q87 PCM4 – H77
2	<u>Main Monitor</u>	- Hatteland Display AS - ISIC A/S	JH 23T14 MMD-MA4 Serie 1 HD 19T21 MMD-MA4 Series X G1 HD 24T21 MMD-MA4 Series X G1 HD 26T21 MMD-MA4 Series X G1 HD 19T22 MMD-MA4 Series X G2 HD 24T22 MMD-MA4 Series X G2 HD 26T22 MMD-MA4 Series X G2 HD 27T22 MMD-MA4 Series X G2 DuraMON 19 LED DuraMON 26 WS LED
3	<u>Panel PC</u>	- Hatteland Display AS - Data Modul	HD 19T21 MEC Series X G1 HD 24T21 MEC Series X G1 HD 26T21 MEC Series X G1 HD 19T22 MEC Series X G2 HD 24T22 MEC Series X G2 HD 26T22 MEC Series X G2 HD 27T22 MEC Series X G2 MDC-A22-1 MDC-A26-1
4	<u>Control Panels</u>	- iXblue SAS	Keyboard-Mouse

1.2 Software:

#	Component	Supplier	Type / Version
1.	<u>Operating System</u>	- Microsoft	Windows 7 / Windows 10
2.	<u>Software + Dongle</u>	- iXblue SAS	Gecdis-8 platform 8.Y.Z ; Y.Z >=18.1 SENIN 8.Y.Z ; Y >= 7 , Z any number

1.3 Options:

Multi displays function available.

2. DOCUMENTS AND DRAWINGS:

- 2.1 - Document Ref. ISD M 772 Ed.A - Dossier de modification Gecdis-8 62288 Ed.2 - issued by iXBlue S.A.S dated 30/06/15
- 2.2 - GECDIS-8 / SENIN – Passage au 11e amendement : DIRECTIVE (UE) 2015/559 de la commission du 9 avril 2015 modifiant la directive 96/98/CE du conseil relative aux équipements marins, Document Ref. ISDM1041 Edition B dated 15/04/2016
- 2.3 - ISDM1284_A_Dossier de certification ECDIS 2017 GECDIS 8
- 2.4 - GECDIS-C User's Manual (ref : ISDM038)
- 2.5 - 36533/B1 MED Version submitted documents are listed in iXblue file Ref: NIX-D01286A Edition B dated: 13/12/2018.
- 2.6 - Risk analysis Ref: RIN00789 Edition AB dated: 06/12/2018.
- 2.7 - Qualification Plan Gecdis8 Post-Aug 2019 - 00013178 - Edition B issued by iXblue and dated 23/08/2019.
- 2.8 - ECDIS Certification - Justifications of new and modified equipment - 00013535 - Edition B issued by iXblue and dated 28/08/2019.

Note : Versions of the documents mentioned in paragraph 2.4 file, vary according to the system software version at delivery.

3. TEST REPORTS:

- 3.1 - IEC 62288 Ed 2.0 - Test report N°: ISDM777 Edition A dated 29/06/2015, Rapport de tests, Plateforme GECDIS 8 version 8.8.0, witnessed by BV surveyor on 03/07/2015
- 3.2 - ISD15332A Complete test report for ECDIS certification of Plateform Gecdis 8.
- 3.3 - ISD15333A Certification file- 2017-Gecdis 8, witnessed by BV surveyor on 26/06/2017.
- 3.4 - iXblue Test report Ref: 00000804 witnessed by BV surveyor on 27/11/2018.
- 3.5 - Qualification Report Gecdis8 Post-Aug 2019 - NIX-D02060 - Edition B issued by iXblue and dated 02/08/2019.

4. APPLICATION / LIMITATION:

- 4.1 - As per requirements of Regulations stated on front page of this certificate.
- 4.2 - As per requirements of IEC61162-450 ed.2 (2018).
- 4.3 - IEC 61162-3 is not applicable.
- 4.4 - Only Hardware and Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.
- 4.5 - The following component(s) shall comply with the requirements of MED2014/90/EU, as amended, and be wheelmarked: Gecdis-8 / SENIN

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.
- 5.2 - For information concerning the production phase modules, **iXblue S.A.S** has declared the following manufacturing site(s):

iXblue S.A.S
34 RUE DE LA CROIX DE FER
78100 SAINT GERMAIN EN LAYE
FRANCE

6. MARKING OF PRODUCT:

Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS:

- 7.1 - It is **iXblue S.A.S**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
- 7.2 - This Certificate supersedes EC Type Examination Certificate n° 36533/B1 EC issued on 27/12/2018 by the Society.

*** END OF CERTIFICATE ***