



Marine &amp; Offshore

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This certificate is not valid when presented without the full  
attached schedule composed of 7 sections  
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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) 2017/306 of 06 Feb. 2017

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 SN.1/Circ.266  
IEC 60945 (2002) + /Corr. 1 (2008),  
IEC 61162-1 ed4.0 (2010-11) + /Corr. 1 (2013),  
IEC 61162-2 ed1.0 (1998-09),  
IEC 61162-450 ed1.0 (2011-06),  
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 26 Jul 2017,

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 221Hx HT CO2Hi HT CO2Hx  PCM4 – Q87 PCM4 – H77
2	<u>Main Monitor</u>	- Hatteland Display AS  - ISIC A/S	JH 23T14 MMD HD 19T21 MMD Series X HD 24T21 MMD Series X HD 26T21 MMD Series X HD 26T21 MMD Series X TouchScreen  DuraMON 19 LED DuraMON 26 WS LED
3	<u>Panel PC</u>	- Hatteland Display AS	HD 19T21 MMC Series X HD 24T21 MMC Series X HD 26T21 MMC Series X
4	<u>Control Panels</u>	- iXblue SAS	Keyboard-Mouse

#### 1.2 Software:

#	Component	Supplier	Type / Version
1.	<u>Operating System</u>	- Microsoft	Minimum Configuration: Windows 7
2.	<u>Software + Dongle</u>	- iXblue SAS	GECDIS 8.Y.Z ; Y >= 15 , Z any number SENIN 8.Y.Z ; Y >= 5 , 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)

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

**4. APPLICATION / LIMITATION:**

- 4.1 - As per requirements of Regulations stated on front page of this certificate.  
4.2 - 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.

**5. PRODUCTION SURVEY REQUIREMENTS:**

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 E "Product Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

**6. MARKING OF PRODUCT:**

- 6.1 - Maker's name or trademark,  
- Serial number of the units,  
- Equipment type number or model identification under which it was type-tested.

6.2 - 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).

6.3 - Alternatively, the marking may be presented on a display at equipment start-up.

6.4 - The title and version of each software element included in the installed software system shall be either marked or displayed on command on the equipment.

6.5 - When the marking and the title and version of the software are displayed only on the display, such information shall also be included in the equipment manual.

**7. OTHERS:**

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the approved equipment at any time, and that **ixblue SAS, Saint-Germain-en-Laye - FRANCE**, will accept the responsibility for informing 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/A6 EC issued on 28/05/2016 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*