



MARINE DIVISION

Certificate number: 16005/B0 EC

File number: RAD 4/28725/2

Annex A1 Item number: A.1/5.3

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

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Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

EC TYPE EXAMINATION CERTIFICATE

as per Module B of European Union Council Directive 96/98/EC on marine equipment

as amended by Commission Directive 2009/26/EC

This certificate is issued to

Japan Marina Co., Ltd.

Tokyo - JAPAN

for the type of product

NAVTEX RECEIVER

Navtex receiver Type:

NT-2000/DEBEG 2902/ALDEN AE-2000

Requirements:

SOLAS 74 Convention as amended, Regulations IV/7, IV/14 and X/3
IMO Resolution MSC.97(73) (2000 HSC Code) 14, IMO Resolution A.694(17),
IMO COMSAR Circ.32, IMO Resolution MSC.148(77),
ITU-R M.540-2 (06/90), ITU-R M.625-3 (10/95),
IEC 60945 (2002), IEC 61097-6 (2005-12).

This certificate is issued under the French Maritime Authority to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended.


This certificate will expire on: 08 Dec 2015

For BUREAU VERITAS Notified Body 0062,

At BV KOBE, on 08 Dec 2010,

Yasuo Hiramatsu



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 B 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. 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 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 Division 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 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:

Navtex receiver Type : NT-2000/DEBEG 2902/ALDEN AE-2000

The equipment comprises:

- *radio receivers*
- *a signal processor*
- *a dedicated display device*
- *printer output port and a thermal printer (option)*
- *a non-volatile message memory*
- *connection to an integrated navigation system (INS).*

1.1 Main Features:

1.1.1 Receiving Frequency:

518 kHz(first receiver), 490 kHz & 4209.5 kHz (second receiver)

1.1.2 Type of Reception:

FIB, (FEC) mode

1.1.3 Sensitivity:

Better than 1 µV/ 50 ohm ant. input

1.1.4 Input Protection:

Capable of withstanding 30V rms of RF signal

1.1.5 Display screen:

8-inch colour VGA TFT LCD, daylight-viewing

1.1.6 Navtex Messages:

40 characters per line, 18 lines per screen

1.1.7 Message Storage:

capacity: 200 messages of average length 500 characters

1.1.8 Message tagging/Protection:

Permanent storage in up to 25% of non-volatile memory (equivalent to approx. 50 messages)

1.1.9 External I/O Specifications:

- Printer interface: RS-232C
- IBS/INS: RS-422
- Additional I/O port: I/O DATA
- Approved sentences as per NMEA 0183/ IEC 61162-1

1.1.10 Power Requirements: 24VDC

1.1.11 Printer Specifications:

PR-950 and 9528: Serial line thermal printer, 40 characters/line

1.1.12 Active Antenna Specifications:

Type: 3-frequency active Whip antenna, 1.2 m, with preamplifier

1.1.13 Software version: 1.3

2. DOCUMENTS AND DRAWINGS:

- 2.1 - Technical Specification dated Sep. 2005
- 2.2 - Drawing and bill of material ref. BV: DT3/05/02495/KER/NF & 3051212/1
- 2.3 - Operation & Installation Manual: UM-NT2000-12 - 2nd Ed. dated Jan. 2007
- 2.4 - DEBEG 2902 Operation & Installation Manual: UM2902-V3, 3rd Ed. dated Feb. 2007
- 2.5 - AE-2000 Instruction Manual: UM-AE2000-2.0, 2nd Ed. dated Feb. 2007

3. TEST REPORTS:

- 3.1 - JMC Test report N° T2005005 dated Oct. 2005 and N° T2005005-2 dated April 2007 (tests witnessed by a Society Surveyor).
- 3.2 - Tokimec test report N° BV-NT2000-TA-01 dated 06/06/2005.
- 3.3 - Research Institute of Marine engineering Test report N° 05-113(E) dated 10/06/2005.
- 3.4 - KENTA Test reports N° 203869 & 203873 dated Oct. 2005.

4. APPLICATION / LIMITATION:

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

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - For information concerning the production phase modules, **JAPAN MARINA Co., Ltd.** has declared that the product may be manufactured at the following manufacturing places:

JAPAN MARINA Co., Ltd.
36-2-1001, Udagawacho, Shibuya-ku
150-0042 Tokyo
JAPAN

SANKO ELECTRONICS CO., Ltd
3-11-1, Motohongo, Hachioji
1920051 Tokyo
JAPAN

JAPAN MARINA Hachioji Works
3-10-6, Motohongo, Hachioji
1920051 Tokyo
JAPAN

- 5.2 - This certificate 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,
 - Minimum safe distance at which the equipment may be mounted from a standard and a steering magnetic compass,
 - Markings as per MED 96/98/EC:

⚙️ YYYX/XX where YYYX is the number of the Notified Body undertaking surveillance module (when BV, 0062) and where XX are the last two digits of year mark affixed.

- 6.2 - Markings as detailed in article 11 of the Directive, must not be applied until the relevant modules 'D', 'E' or 'F' certificate has been issued to the manufacturing works by the notified body.

- 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 Navtex Receiver at any time, and that **JAPAN MARINA Co., Ltd, Tokyo - Japan**, will accept the responsibility for informing shipbuilders or their sub-contractors of the proper methods of use and general maintenance of the Navtex Receiver and of the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 16005/A2 issued on 22/06/2009 by the Society.

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