



Bundesrepublik Deutschland

Federal Republic of Germany

BSH-Cert

Benannte Stelle – Navigations- und Funkausrüstung
beim Bundesamt für Seeschifffahrt und Hydrographie

Notified Body – Navigation and Radiocommunication Equipment
at the Federal Maritime and Hydrographic Agency



NOTIFIED
BODY
0735

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

BSH-Cert, specified as a “notified body” under the terms of „Schiffssicherheitsgesetz“ of 09 September 1998 (BGBl. I, p. 2860) modified last 18 May 2011 (BGBl. I, p. 935), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive (MED) 96/98/EC and the last modification by Directive 2011/75/EC.

Manufacturer **Hemisphere GPS Inc.**
 Address **4110 9th Street SE, Calgary, Alberta T2G 3C4, CANADA**

Applicant **Hemisphere GPS Inc.**
 Address **4110 9th Street SE, Calgary, Alberta T2G 3C4, CANADA**

Annex A.1 Item (No & item designation) **4.41 Transmitting heading device THD (GNSS method)**

Product Name **V1X3**

Trade Name(s) **V103, V113**

Specified Standard(s)

| | |
|----------------------------|--|
| IMO Resolution MSC.116(73) | ISO 22090-3 Ed.1.0, 2004 incl. Corr. 1, 2005 |
| IMO Resolution A.694(17) | IEC 60945 Ed.4.0, 2002 incl. Corr. 1, 2008 |
| IMO Resolution MSC.191(79) | IEC 62288 Ed.1.0, 2008 |
| | IEC 61162-1 Ed.4.0, 2010 |
| | IEC 61162-2 Ed.1.0, 1998 |

Based on the Directive 2010/68/EC, additional applied version: Directive 2011/75/EC

This certificate remains valid unless cancelled, expired or revoked.

Date of issue: **15 March 2012**

Issued by: **BSH-Cert**

Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany

Expiry date: **31 December 2016**

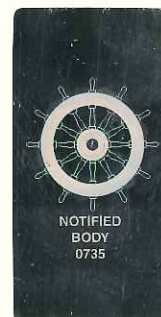
Notified body 0735

Certificate No.: **BSH/46122/4412063/12**

This certificate consists of 2 pages.



Kai-Jens Schulz-Reifer



Components necessary for operation:**V103**

| Component | Type designation | Part No. |
|----------------------|------------------|---------------|
| Antenna and receiver | V103 | 804-0098-000# |
| Software | V15QC5 | |

V113

| Component | Type designation | Part No. |
|----------------------|------------------|---------------|
| Antenna and receiver | V113 | 804-0099-000# |
| Software | V15QC5 | |

Approval Documentation:

Test Report No.: BSH/4612/4412063/12
 Assessment Report No.: BSH/4612/4412063/11-2
 V103 Series User Guide

Places of production:

Limitations on the acceptance or use of the product:

This equipment is able to provide position data on the serial output.
 It does not fulfill the requirements according to MED A.1/4.14 GPS equipment.

Conditions on the acceptance or use of the product:

All displays, which are used for the presentation of the THD indications shall be approved and in compliance with the requirements of:

IEC 60945 Ed.4.0, 2002 incl. Corr.1, 2008
 IEC 61162-1 Ed.4.0, 2010
 IEC 61162-2 Ed.1.0, 1998
 IMO Resolution MSC.191(79) + IEC 62288 Ed.1.0, 2008

Notes:

The manufacturer shall inform BSH-Cert, as the notified body, of any modifications to the type-tested product(s) that may affect compliance with the requirements or conditions laid down for use of the product(s).

In case the specified regulations or standards are amended during the validity of this certificate, the product(s) must be re-certified before being placed on board vessels to which such amended regulations or standards apply.

The Mark of Conformity (wheelmark) may only be affixed to the type approved equipment, and a Manufacturer's Declaration of Conformity may only be issued, if the product quality system fully complies with the Marine Equipment Directive and is certified by a notified body against ANNEX B module D, E, or F of the Directive.

Notice on legal remedies available:

Objection to this document may be filed within one month after notification. The objection must be filed in writing to, or put on record at, Federal Maritime and Hydrographic Agency, Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany