

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

**This is to certify:**

**That the Track control system (TCS)**

with type designation(s)  
**HLD-TCS 600**

Issued to

**Beijing Highlander Digital Technology Co., LTD**  
**Beijing, China**

is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2017/306,**  
**item No. MED/4.33. SOLAS 74 as amended, Regulations V/18 & V/19, IMO Res A.694(17),**  
**IMO Res MSC.74(69), IMO Res MSC.191(79), IMO Res MSC.302(87)**

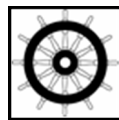
Manufacturers authorised representative  
**Rockson Automation GmbH**  
**Kiel, Germany**

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

This Certificate is valid until **2022-08-06.**

Issued at **Hamburg** on **2017-08-07**

DNV GL local station:  
**Tianjin**



for **DNV GL SE**

Approval Engineer:  
**Harald Bluhm**

Notified Body  
No.: **0098**

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**Sven Dudszus**  
**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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

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 GL SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



## Product description

1. Product Type: HLD-TCS 600  
Software Version: 2.0.0

Comprising of:

2. The Electronic Chart Display and Information System (ECDIS)  
Product Type: HLD-ECDIS 600  
Software Version: 1.1.0

3. The Heading Control System (HCS)  
Product Type: HLD-SC 600  
Software Version: 2.0.0

4. Non-Follow-Up Unit: HLD-NFU 200

Additional Equipment:

5. Steering Mode Switch: HLD-SW 200

Manuals:

HLD-TCS 600 OPERATION MANUAL HLD0800CZ Rev 1.0  
HLD-SC 600 OPERATION MANUAL HLD0700CZ, Rev.1.0  
HLD-SC 600 INSTALLATION MANUAL HLD0700AZ, Rev.1.0  
HLD-ECDIS 600 OPERATION MANUAL HLD3400CZ Rev 1.0  
HLD-ECDIS 600 INSTALLATION MANUAL HLD3400AZ Rev 1.0

## Type Examination documentation

9065-16-39255-62065 – TCS IEC 62065 Edition 2.0, 9065-16-39266-61162  
60945 test report-SIPAI A15-070-WT

## Tests carried out

IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008), IEC 61162 series: IEC 61162-1 ed5.0 (2016-08), IEC 61162-2 ed1.0 (1998-09), IEC 61162-450 ed1.0 (2011-06), IEC 62065 (2014-02), IEC 62288 Ed. 2.0 (2014-07)

## Marking of product

According to Article 10 of the Council Directive (MED):

- The wheel mark shall be affixed visibly, legibly and indelibly to the product or to its data plate and, where relevant, embedded in its software. Where that is not possible or not warranted on account of the nature of the product, it shall be affixed to the packaging and to the accompanying documents.
- The wheel mark shall be affixed at the end of the production phase.
- The wheel mark shall be followed by the identification number of the notified body, where that body is involved in the production control phase, and by the year in which the mark is affixed.
- The identification number of the notified body shall be affixed by the body itself or, under its instructions, by the manufacturer or the manufacturer's authorised representative.

For specific products, manufacturers may use an appropriate and reliable form of electronic tag instead of, or in addition to, the wheel mark.