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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) 2025/1533 of 23 July 2025

This certificate is issued to:

Jiangsu Highland Integration Technology Co., LTD.

No. 199, Qingfeng Road,, Suxitong Science&Technology Industrial Park, 226017, NANTONG, CHINA

for the type of product

ELECTRONIC INCLINOMETER EQUIPMENT

HLD-EI600

Requirements:

Row 1 of 2 of Regulation (EU) 2025/1533:

SOLAS 74 Reg. V/18, V/19 and X/3

IMO Res. MSC.363(92), MSC.191(79), MSC.302(87)

IMO Res. A.694(17)

ISO 19697:2016

IEC 60945:2002 incl. IEC 60945 Corr. 1:2008

IEC 61162 series: IEC 61162-1:2016, IEC 61162-2 Ed.1.0:1998-09, IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11 and A2

Ed. 1.0:2014-07, IEC 61162-450:2018

IEC 62288 Ed. 3.0:2021

IEC 62923-1:2018

IEC 62923-2:2018

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: 23 Sep 2028


For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV SHANGHAI, on 15 Mar 2026,

Jennifer Zhang

This certificate was created electronically and is valid without signature



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 :

Electronic Inclinometer HLD-EI600 system is comprised of two main parts:

1. Display Unit: HLD-EI600-10(10-inch), HLD-EI610-8(8-inch)
2. Sensor: HLD-EIS601

HLD-EI600 System Specification

Display Brightness: Multi-level adjustable
 Power Supply: AC 220/110V or DC24V
 Heel Angle resolution: $\pm 0.1^\circ$
 Protection Level(Display Unit): IP23
 Protection Level(Sensor): IP56
 Software Version : V2.7

2. DOCUMENTS AND DRAWINGS :

- Electronic Inclinometer HLD-EI610-8 User's Manual version 260122
- Electronic Inclinometer HLD-EI610-10 User's Manual version 260122
- Electronic Inclinometer System Diagram, No. HLD-EI600-SD version V250529 dated 2026.01.21
- Electronic Inclinometer Dimension Diagram, No. HLD-EI600-DD version V250217 dated 2026.01.21
- Risk Assessment No. HLD-EI600-RA version 250207 dated 2026.01.21
- Project Software Version Management, No. HLD-EI600-SV version 241128 dated 2026.01.21
- Technical Specification No. HLD-EI600-TS version 250217 dated 2026.01.21
- Conformity Matrix No. HLD-EI600-CM version No. V251030 dated 2026.01.21
- Electronic Inclinometer, Conformity Matrix of ISO 19697: 2016, No. LLHH-IM330-IC dated 2025.09.01
- Product Consistency Declaration, No. HLD-Linglu-ODM-20251119 dated 2025.12.11

3. TEST REPORTS :

- IEC 60945, Environmental Test Report No. Ship Test ER 2022-048 dated Sept 21, 2022
- IEC 60945, EMC Test Report No. Ship Test 2022-048 dated Sept 20, 2022
- IM330 Type Test Program No. LLHH-IM330-TP dated 10 Jan 2025
- IM330 Alert Test No. LLHH-IM330-AT dated 15 April 2025
- Test Report _ISO 19697 No. LLHH-IM330-TR dated 2025.09.03
- Test Report No. LLHH-IM330-CM dated 30 Oct 2025
- Test Report No. LLHH-IM330-IT dated 28 Feb 2025
- Test Report No. LLHH-IM330-IC dated 03 Sept 2025

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
- 4.3 - The following components shall comply with the requirements of MED 2014/90/EU, as amended, and be wheelmarked:
HLD-EI600 Electronic Inclinometer
- 4.4 - IEC61162-2, IEC61162-3, & IEC61162-450 are not applicable
- 4.5 - HLD-EI600 system embeds BAM function type S

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, **Jiangsu Highland Integration Technology Co., Ltd.** has declared the following manufacturing site:

Jiangsu Highland Integration Technology Co., Ltd.
No. 199, Qingfeng Road,
Suxitong Science&Technology Industrial Park
226017 NANTONG
CHINA

6. MARKING OF PRODUCT :

6.1- 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 **Jiangsu Highland Integration Technology Co., Ltd.**'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.

*** END OF CERTIFICATE ***