

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Sound Reception System**with type designation(s)
HSR-1400

Issued to

HANSHIN ELECTRONICS CO.,LTD.
Busan, Republic of Korea

is found to comply with

**IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the
global maritime distress and safety system (GMDSS) and for electronic navigational aids**
**IMO Res. MSC 86(70) Annex 1 Recommendation on Performance Standards for Sound
Reception Systems**
IMO Resolution MSC 191(79)
DNV GL rules for classification – Ships**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed
by DNV GL.**Issued at **Busan** on **2018-12-20**This Certificate is valid until **2023-12-19**.for **DNV GL**DNV GL local station: **Gimhae Station**Approval Engineer: **Geun Young Park**

Andreas Kristoffersen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-028628-1**
Certificate No: **TAA000022C**

Product description

HSR-1400 Sound Reception System, consisting of the following modules:

Unit	Description	Location	Remark
SRM-141	Main controller and display unit	Protected	Software version No.: SRS180516DNV
SRR-142	Microphone unit	Exposed	-

Application/Limitation

- The HSR-1400 shall be installed and tested on board in accordance with the manufacturer's manual.
- The HSR-1400 is found to comply with requirements for Sound Reception Systems for the additional class notations NAUT(OC) and NAUT (AW) as specified in the DNV GL Rules Pt.6 Ch.3 Sec.3 (July 2018).

Type Approval documentation

Tests carried out

- Performance testing: ISO 14859 (2012) and DNV GL TA programme MED/4.58
- Environmental testing: IEC 60945 (2002) incl Corrigendum 1(2008)
- Presentation of navigation information: IEC 62288 (2014)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.