

# PRODUCT CERTIFICATE

Certificate no.:  
**n2046789-gvs**  
**RADAR/ARPA**  
DNV ID no.:  
**10564901**

## Particulars of Product

Function Area: **BRIDGE OPERATION SIMULATOR**

Name and type designation: **K-Sim® Navigation RADAR/ARPA and Planning Station**

In use for simulation at: **K-Sim Connect**

## Particulars of Manufacturer

Manufacturer: **K-SIM AS**

Manufacturer address: **Horten, Norway**

## This is to certify:

That the above product is found to comply with Class D, S - Standard for Certification of Maritime Simulators No. DNV-ST-0033 June 2021.

## Application

The above Standard is based on requirements in the STCW Convention, Regulation I/12 and corresponding industry standard and guidelines.

This Certificate is valid until **2026-06-24**, provided the requirements for the retention of the Certificate will be complied with.

Issued at **Horten, Norway** on **2025-04-01**



for **DNV**

*This document is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication can be obtained from [trust.dnv.com](http://trust.dnv.com) by using the Unique Tracking Number (UTN):*  
**n2046789-gvs and ID: 10564901**

**Aksel David Nordholm**  
**Approval Expert**

This Certificate is subject to terms and conditions overleaf. Any significant change in simulation performance may render this Certificate invalid.  
LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

### Application/Limitation

The simulator can simulate a realistic environment for selected STCW competence requirement referred to in Table 3-2.

**Table 3-2 Competencies addressed by bridge operation simulator class**

| <i>STCW reference</i> | <i>Competence</i>  | <i>Class A (NAV)</i> | <i>Class B (NAV)</i> | <i>Class C (NAV)</i> | <i>Class D (NAV)</i> |
|-----------------------|--|----------------------|----------------------|----------------------|----------------------|
| Table A-II/1.3        | Use of radar and ARPA to maintain safety of navigation.  | A                    | B                    | C                    | D                    |
| Table A-II/1.4        | Use of ECDIS to maintain the safety of navigation.   | A                    | B                    | C                    | D                    |
| Table A-II/2.6        | Maintain safe navigation through the use of information from navigation equipment and systems to assist command decision-making. | A                    | B                    | C                    | D                    |
| Table A-II/2.7        | Maintain the safety of navigation through the use of ECDIS and associated navigation systems to assist command decision making.  | A                    | B                    | C                    | D                    |
| Table A-II/3.3        | Respond to emergencies.  | A                    | B                    | C                    | D                    |
| Table A-II/3.4        | Respond to a distress signal at sea.   | A                    | B                    | C                    | D                    |



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**Endorsement for Annual Audits**

THIS IS TO CERTIFY:

at an annual audit as required by the Standard, the Simulator System was found to comply with the relevant requirements of the Standard.

1st Annual Audit Place: ..... Date: .....

Signature: .....

Stamp ..... Auditor, DNV

2nd Annual Audit Place: ..... Date: .....

Signature: .....

Stamp ..... Auditor, DNV

3rd Annual Audit Place: ..... Date: .....

Signature: .....

Stamp ..... Auditor, DNV

4th Annual Audit Place: ..... Date: .....

Signature: .....

Stamp ..... Auditor, DNV