

PRODUCT CERTIFICATE

Certificate no.:
n2003076-ent NAV C
DNV ID no.:
1232064

Particulars of Product

Function Area: **BRIDGE OPERATION SIMULATOR**

Name and type designation: **K-Sim® Polaris Desktop Bridges + 2**

In use for simulation at: **Maritime University of Szczecin**

Particulars of Manufacturer

Manufacturer: **Kongsberg Digital AS**

Manufacturer address: **Maritime Simulation, Horten, Norway**

This is to certify:

That the above product is found to comply with Class C - Standard for Certification of Maritime Simulators No. DNV-ST-0033 March 2017.

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 **2029-10-09**, provided the requirements for the retention of the Certificate will be complied with.

Issued at **Sandefjord, Norway** on **2024-10-09**



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 by using the Unique Tracking Number (UTN):
n2003076-ent and ID: 1232064

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 all the applicable STCW competence requirements referred to in the column for Class A, B, C and S 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 S (NAV)</i>
Table A-II/1.3	Use of radar and ARPA to maintain safety of navigation	A	B	C	(S)
Table A-II/1.4	Use of ECDIS to maintain the safety of navigation	A	B	C	(S)
Table A-II/1.5	Respond to emergencies	A	B	C	(S)
Table A-II/1.6	Respond to a distress signal at sea	A	B	C	(S)
Table A-II/1.8	Transmit and receive information by visual signalling	A	B	C	(S)
Table A-II/1.9	Manoeuvre the ship	A	B	C	(S)
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	(S)
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	(S)
Table A-II/3.3	Respond to emergencies	A	B	C	(S)
Table A-II/3.4	Respond to a distress signal at sea	A	B	C	(S)
Table A-II/5.2	Contribute to berthing, anchoring and other mooring operations	A	B	C	(S)



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