



PEM OFFSHORE

PEM OFFSHORE SIMULATION AND INNOVATION CENTER



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K-SIM® NAVIGATION RADAR FOR ELEARNING

The K-Sim® Navigation Radar is an important innovation for navigation educators and training providers. Our legacy in navigation simulation excellence is recreated using the edge of cloud native technologies to create the all new radar simulator tailored to meet the versatile and changing demands of these new times. This Radar is designed to be compliant with the IMO Model Courses 1.07 and 1.08. It assists in delivery of simulation-based exercises meeting key learning objectives such as marine radar operational principles; radar navigation and plotting; use of radar in Search and Rescue (SAR); and use of ARPA.



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Access to simulators at school can be limited by capacity and school hours, while it is commonly understood that volume training is key to increasing competence. Used as an advanced eLearning tool, our cloud based radar simulations application enables instructors to facilitate radar training for students, who now can practice anytime and anywhere.

LEARNING OBJECTIVES

The radar application is designed to comply with the IMO Model Course 1.07 - Radar Navigation, Radar Plotting and Use of ARPA and the IMO Model course 1.08 - Radar, ARPA, Bridge Teamwork and Search and Rescue. It is specifically designed for the following learning objectives:

- Basic theory and operational principles of a marine radar system
- Radar setting and operation
- Using radar to ensure safe navigation
- Manual radar plotting
- Operation of ARPA or radar target tracking (TT) and AIS reporting functions
- Application of COLREGs when using radar
- Use of Radar in Search and Rescue (SAR)

A CLOUD-NATIVE SOLUTION

Our cloud-based radar eLearning solution is available on K-Sim Connect, our ecosystem through which we provide cloud-based simulation services to the maritime education and training industry. The instructor tool is easy to use and enables instructors to efficiently manage and distribute exercises to students, with cutting-edge radar simulations.

There are several ways enable cloud simulations. At Kongsberg we have chosen to rebuild our simulators as true cloud-native applications as we believe that this will best benefit our many users. The users will experience this as a reliable and robust simulator able to operate 24/7 without any need to limit the number of instructors and students simulating exercises at the same time, or for the instructors to book a timeslot on the simulator to provide the exercises. Also, there is no need to worry about versioning and compatibility of software of content.



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It can be argued that our approach will not provide the full list of simulator features from day one, and that is true. Our development team knows this and is working with laser focus to add new functionality. And since this service is hosted on large central data centers, deploying fixes, new features and updates is done in a matter of hours or even minutes, so you will benefit without delay from our efforts.

READY-MADE EXERCISES

The radar eLearning is delivered with initial condition exercises. As an instructor, you can choose between a selection of ship models and geographical sailing areas to meet the various training objectives. You will later also have the option create and upload your own-made exercises, and also to connect an instructor system.

The radar eLearning solution introduces a new line of navigation instruments based on IMO performance standards. Leveraging market-leading K-Sim Navigation functionality and cutting-edge cloud technology, it is a powerful and intuitive tool providing students with optimal realism in radar simulations and training scenarios.

SUBSCRIPTION-BASED SERVICE

The radar eLearning module is a subscription-based service. Kongsberg will run the simulation in our cloud data center whenever you or your student demands it through the K-Sim Connect portal. To be able to use it, you don't need to purchase or own any special simulator infrastructure such as e.g. servers or dedicated networks with routers and switches. The monthly subscription covers your access to the software and the infrastructure operation required.

Your subscription can be scaled based on your specific needs, such as how many students require access, and how much simulation time the students require. For users committing to long term subscriptions we do also offer additional discounts. Navigate to the pricing calculator to explore the pricing options. If you have any questions at all, please reach out and we will be happy to discuss solutions to your simulation needs.



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MINIMUM REQUIREMENTS

This service runs completely in the cloud so we don't impose any complicated hardware or software requirements on you or the students. All you need to get started using this simulation service is:

- A relatively good and stable Internet connection, and
- Any computer with any modern web browser.

We do our development and testing optimized for the Google Chrome browser. Also we do recommend that you use a laptop or a desktop computer with a minimum of 13 inches screen to be able to see and operate the radar and the instruments.

SIMULATOR INCLUDES

SHIP MODELS

- BULKC11 - Hagland Saga
- CNTNR23 - KMSS Uni-Assure
- CNTNR28 - Sovereign Maersk
- CNTNR43 - OOCL St.Petersburg
- CORV03 - Corvette 987
- CRUIS10 - Royal Princess
- FERRY28 - Ofoten
- FERRY34 - Northern Expedition
- FISH07 - Generic Fishing Vessel
- GAS14 - Maran
- LIFE01 - Life raft
- PATRL19 - RS 138 Sundt Flyer
- PRODC04 - Maria Theresa



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- RHIB07 - RIB - 7 m
- SAIL04 - Sail boat
- TANK16 - Americas Spirit
- TUG03 - Alert
- TUGBA02 - Tug and Barge combined
- VLCC18 - Elizabeth I. Angelicoussi

EXERCISE AREAS

- Europort
- English_channel_E
- Gothenburg
- Singapore
- Oslo_N
- Oslo_S

INSTRUMENTATION

- RADAR with ARPA
- Throttle
- Steering system
- Autopilot
- Heading monitor
- Speed log