

Remote Operating Station Training Simulator

Train operators to proficiency ahead of remote crane delivery

Presenting the ROS /

CM Labs' Remote Operating Station (ROS) Training Simulator is the only solution on the market that integrates with original equipment manufacturer (OEM) control systems. This gives trainees a unique opportunity to experience realistic crane operations and the control room environment while the real equipment is being used for production, or even prior to equipment commissioning.

Benefits /

Safely develop new skills

With the advent of remote cranes and other port terminal automation technology, the ROS Training Simulator gives terminals the ability to provide operators with the new skills and reactions they'll need to hit the ground running when the new technology comes online — and to handle unforeseen events safely and effectively.

Track operator readiness

After each training session, an optional Instructor Operating Station (IOS) generates reports that highlight scoring, as well as selected instructor bookmarks, notes, and charts that allow terminals to objectively document operator readiness, provide an indication of areas for improvement, and ultimately train a safer, more effective operator.

Eliminate potential bottlenecks

By bringing a ROS Training Simulator into the loop at the training stage, port terminals can gather the information they need to eliminate errors, reduce operator incidents, and quickly identify and solve potential workflow gaps — all to ensure that they maintain high productivity levels throughout the transition toward automation.



ROS Features /



A complete training solution

The ROS Training Simulator is delivered as a fully functional operating desk with joysticks, buttons, a full-screen layout, and OEM controls. It simulates all crane functions, camera displays, and automated safety functions, as well as the terminal's container management system.

It also includes a control system (with ship profiling system and other operator assist functions such as smart slowdown or anti-collision systems), industrial-grade computers to run the simulation software, and all the camera views available to the operator at actual ROS stations.



Future-proof your training

Remote STS, RMG, and RTG crane operations are gaining popularity in container terminals as an alternative that improves safety, operating ergonomics, and operator productivity. The ROS Training Simulator lets terminals prepare thoroughly for change, before it happens.

With the optional Instructor Operating Station, trainers can launch exercises for different controls and scenarios, inject faults such as snags, corner cast failures, inclement weather or disabled cameras, and engage in review sessions using the solution's record-and-playback feature.



A proven OEM engineering tool

The fidelity of the ROS Training Simulator is so complete that OEMs can also use the simulator during the product development process to validate PLC logic.

With its ability to integrate with existing control systems, the ROS simulator is not just a training solution – it is also a powerful engineering tool for control system development, workstation ergonomics, and more.

By reducing reliance on costly physical prototypes, innovation can be brought to market even faster.



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