Trastainer Crane Simulator

Trastainer crane is used for marshalling and for stacking in the container terminal. The maneuver with this crane involves not only the work with the containers, but also the movement of the crane along the terminal, paying attention to obstacles and other vehicles.

Equipment:

- Cabin atop a 6DOF platform
- Real operation console
- Instructor's console with full control over the simulation
- Digital sound effects from the real environment
- Projection system with three high resolution screens

Main functions:

- Real startup and stop sequence
- Loading into and discharging from trailer
- Work with TEU and FEU containers
- Automatic and manual mode
- On screen information for user and instructor
- Information window with the state and position of the machinery and operation commands
- Tyre rotation for movement across the terminal
- Steering correction for displacement of the crane

Special conditions:

- Weather conditions: rain, wind, fog,...
- Simulation of bridge crashes with objects in the terminal
- Realistic response to collisions

Reports at the instructor's console:

- Date
- Starting and ending time
- Time length
- Finished exercises
- Velocity log
- Collision log
- Dangerous maneuvers log

Visualization system

- High quality images, generated in real time
- 3D graphics
- Picture textures from the real harbor