



# MARINE/BRIDGE TRAINING SIMULATOR and SIMULATION SOLUTIONS

- High Fidelity Marine/Bridge Training Simulator with Real Ship Instrumentation and Controls
- Damage Control Simulator
- Ship Simulator
- Bridge Simulator
- GMDSS Simulator

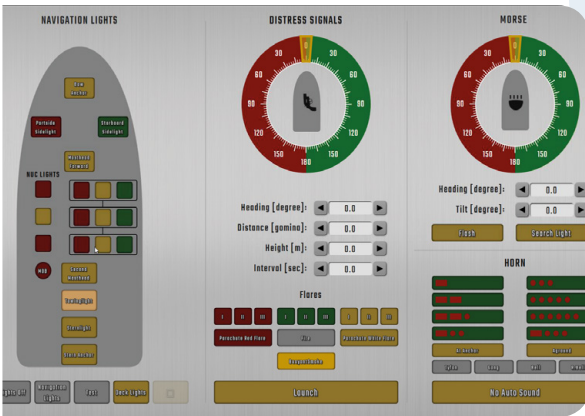
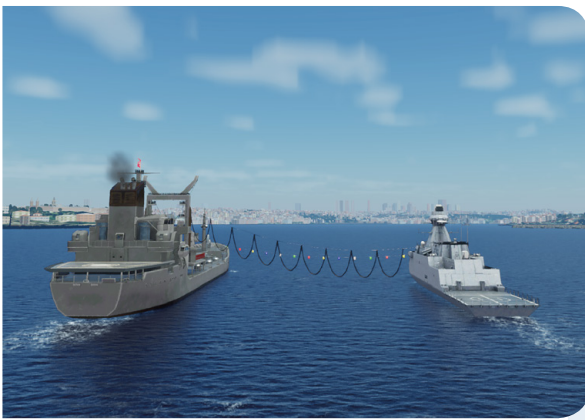


# MARINE/BRIDGE TRAINING SIMULATOR and SIMULATION SOLUTIONS



Turkey's First Bridge Simulator Certified by Türk Loydu and Compliant with STCW Now Sets a New Standard in Civil Maritime Training Developed through our fully national R&D efforts, this system raises the bar for maritime education. Leveraging the next-generation SimIG Gen.3 image generator, it delivers photo-realistic sea surfaces with high-resolution sunlight reflections, dynamic weather conditions, day-night transitions, and over 60 ship models with real-time physical dynamics.

Thanks to its modular architecture, the system can be easily scaled—from desktop simulators used in classrooms to full mission bridge simulators for naval forces and commercial shipping—based on ship type and operational profile. Covering a wide range of critical operations, the system supports GMDSS, ECDIS, and radar simulations, as well as scenarios like shipborne firing, collisions, complex port maneuvers, environmental compliance, and emergency drills—all on a single platform. With its instructor-friendly scenario editor, real-time performance monitoring, and detailed debriefing tools, the system enhances training effectiveness for maritime academies, port authorities, and fleet operators. It helps train competent, safety-focused personnel in line with international standards—while optimizing training costs. Certified by Türk Loydu and fully compliant with STCW requirements, the system enables your trainees to safely navigate challenging weather conditions and global ports—accelerating their path to international certification.



## 1. Certification & Compliance

- Turkey's first bridge simulator certified by Türk Loydu and compliant with STCW
- IMO Model Courses supported

## 2. Core Simulator Suite

- Bridge Simulator (Desktop to Full Mission)
- GMDSS Simulator
- ECDIS Simulator
- VTS Simulator
- Radar / ARPA Simulator



# MARINE/BRIDGE TRAINING SIMULATOR and SIMULATION SOLUTIONS

- Marine Pollution Response Simulator
- High-Speed Boat & Coast Guard Simulators (with motion platform support)

## 3. Military & Civil Expansion Modules

- Combat Information Center (CIC) Simulator
- Fire Control Simulator & Weapon-Integrated High-Speed Boat Scenarios
- Integrated Ship Simulator (Bridge + CIC + Fire Control)
- Distributed / Multi-Ship Simulation Centers
- Tactical & Operational Simulation Integration

## 4. Modular Architecture & Customization

- Scalable from classroom desktop to Full Mission bridge setup
- Real hardware consoles or high-fidelity touch screen panels
- Integration options: Bridge-CIC, Bridge-Fire Control, Near/Far bridge coordination
- Compatible with VR, AR, CBT, LMS, VMT, and serious game systems

## 5. Advanced Visualization (SimIG Gen.3)

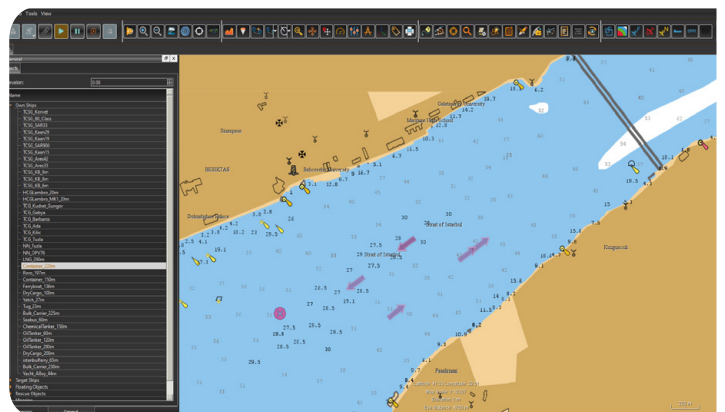
- High-resolution, photo-realistic marine environment with dynamic waves, reflections, and horizon effects
- Multi-channel parallel rendering with full day-dusk-night cycles
- Advanced weather & environmental effects (snow, rain, fog, sun, moon, stars)
- 60+ ship models with real-time physical dynamics

## 6. Scenario & Performance Management

- GIS-based scenario editor: SAR, port entry, environmental compliance, emergencies
- Dynamic criteria definitions, full simulation recording, and multi-view playback
- Detailed performance reporting and debriefing; AI-assisted scenario generation & autonomous object control

## 7. Institutional Benefits

- Improved training effectiveness and reduced cost for maritime academies, port authorities, and fleet operators
- Increased preparedness through realistic scenarios and enhanced safety
- Optimized processes in certification and risk management; minimized operational error rates





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