

Naval Gunnery Simulator

.50 CALIBER Machine Gun



The use of simulators in the Navy industry reduces the utilization of live weaponry for training of personnel, allows for more proficient weaponry usage by building high levels of competence and reduces the cost of vessel usage for training situations.

.50 CALIBER Machine Gun Simulator

The CALIBER .50 Machine Gun Simulator is used in the training of Navy gunnery personnel. It has real life scenario implementation in an augmented reality situation using actual decommissioned weaponry, real ship audio and movable gunnery platforms. It has multiple scenario selection, with adjustable targets and environment conditions. It has a separate instructor console with real time monitoring and feedback of lesson implementation with automated student lesson plan recording.

Multiple Scenario Implementation

Targets include:

- Static targets
- Fishing trawlers
- Tugboats
- Ribs
- Cargo vessel
- Small and large aircraft including:
 - MIG 29 fighter jets
 - Blackhawk S-70

Tel +353 [0] 66 7120500
Fax: +353 [0] 66 7117475

Email: info@reamda.com
Web: www.reamda.com

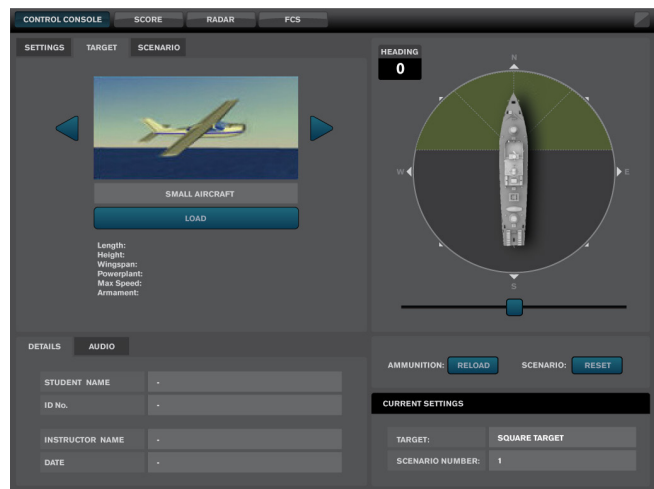


Instructor system

The instructor system is designed to enhance the quality of simulation training by providing complete, intuitive and user-friendly control of exercises and to develop customized exercise modules. The instructor system also allows for the modification of lesson difficulty by reducing or increasing the target kill zone. Training records are maintained after each lesson incorporating, the number of shots fired, number of shots on target or in the vicinity of the target, and the conditions and exact implementation of each lesson.

Adaptable Environment Conditions available for instructor to change at run time. These include:

- Time of day [effects brightness and visibility]
- Precipitation, Cloud cover, Fog
- Wind,
- Sea state



Each target has several adjustable parameters including variations in speed, location, position, course, orientation and can also incorporate multiple target insertion in both friendly and threat situations.

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