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NLAO OUTDOOR TRAINER, NLAO ODT

A full spectrum ATW trainer

The Next Generation Light anti-Tank Weapon (NLAO) Weapon Effects Simulator (WES) supports all the needs for weapon training. Designed as an exact replica of the NLAO weapon system, it ensures realistic training with an outstanding training effect. By being forced to use correct weapon handling procedures the soldiers' gain experience and skills that is crucial for successfully solving their mission in a real combat situation

The NLAO trainer is transparent to the gunner and takes him as close to live firing as you can get. It has the correct form, fit and function, including realistic weight, shape and balance. It simulates the capabilities of the NLAO weapon system including: PLOS (Predicted Line of Sight) - the NLAO trainer requires a correct tracking sequence to be performed, and the gunner must use correct aiming techniques in order to hit the target. These functions are implemented by using the same functionality as for the real NLAO weapon system.

Attack Modes

The simulator senses the chosen Attack Mode (Over fly, Top or Direct Attack). Based on the selected mode, the system will simulate the actual flight trajectory and

missile behaviour. Hit point and lethality effects are determined by the target for every missile defined as a hit. The target vulnerability takes into account the chosen Attack mode as well as its own protection levels. The simulator implements a sophisticated gyro stabilized simulation requiring soldiers to apply the procedures. It also replicates the NLAO missiles guidance electronics which records the soldier's aiming movement until missile launch, it calculates and predicts the simulated flight path to the target. When launched, the simulated missile dynamics replicates the real missile. It requires the gunner to follow standard army operating procedures for an engagement. The NLAO can be used as a basic gunnery training system or in a tactical training exercise.



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Accurate weapon replica with correct weight and CG.



Weapon signatures are simulated by the use of pyrotechnics, optionally a loud-speaker and visual cues can be implemented, well suited as fire prevention during dry seasons.

Sophisticated gunner feedback

The NLAW trainer is equipped with a display and speaker for feedback. The display provides the gunner with visual information such as firing results, range to target, hit coordinates, ammunition quantities, training mode, BIT testing and battery level status. The speaker gives audio information and weapon sound effects. This provides the gunner with instant information and feedback without forcing him to move from the firing position. Efficient and repetitive training is one of the advantages with these features.

Easy introduction

The simulator is a perfect tool for initial gunnery training and experiential learning. The transparency of the solution, replicating all live procedures, makes the introduction to this training tool very easy. The display and audio unit provides instant feedback. After battery insertion, the system automatically powers up and within a few seconds and is ready for a gunnery session or a combat exercise

Safety aspects

Safety for gunners and surrounding personnel is a critical factor and has had a major impact on the design of the

simulator. Also laser safety, unconditionally eye safe, and the use of a well-proven pyrotechnic device give your forces the most advantageous and safe training system available.

Instructor tools

Instructors play an essential role in all training. The instructor's tool gives them the capability to provide objective and timely feedback, both on the individual and collective levels. Each gunner can be individually evaluated and given instant feedback relevant to the specified training objective. Feedback can be given both in real-time and as an After Action Review (AAR). The software takes into account event information such as engagement times, aim coordinates, aiming procedures, hit information, etc. and presents the data as statistical reports, qualification results etc. The feedback can be viewed both on printouts and as on-screen presentations. The on-screen presentations can be interactive and sequences can be replayed. With the real-time feature, a larger number of gunners can be monitored and instructed simultaneously by one instructor.

Modern, proven and in use

Using the latest technology allows international customers, including NATO nations, to optimise weapons system training.

Description (• = Standard, O = option)

- Surrogate weapon – actual shape, weight and balance	•
- Requires correct weapon handling procedures including tracking and Attack Mode selection	•
- Arming Distance simulation (similar to the real weapon)	•
- Missile flight path and flight time simulation (replicates the real missile dynamics)	•
- Instant gunnery feedback and audio feedback in English (native language option)	•
- Event recording and storage for later evaluation and feedback	•
- Laser Class 1, unconditionally safe	•
- Pyrotechnical fire signature, Flash Bang Smoke Simulation	•
- Light and loudspeaker for fire simulation	O
- Instructor tool offline	O
- Instructor tool online (real time)	O
- Power supply, Li-ion 10.8V	•
- Environmental qualified to MIL-810F	•



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Specifications subject to change without notice.
ENG – ver. 1.1, August 2023