



# SAAB



## CARL-GUSTAF M4 OUTDOOR TRAINER, ODT

# A full spectrum ATW trainer

Saab's Carl-Gustaf Weapon Effect Simulator (WES) – either the M2, M3 or M4 version – is the perfect choice for all aspects of weapons training. Training and experiencing weapons effects on all defined targets is an important feature. The Carl-Gustaf Trainer teaches soldiers to follow the correct drills and procedures, and addresses errors and mistakes.

Procedural and realistic training for gunners and loaders is included in the system. Repetitively using real and correct weapon procedures gives soldiers the skills and experience required in war. The Carl-Gustaf Trainer is designed to take you as close to live firing as you can get. It uses a detailed ballistics table with a temperature index to replicate the behaviour of live ammunition. Based on this data, the simulator implements a sophisticated gyrostabilised simulation that requires soldiers to apply correct lead angles and elevations, including temperature compensation. A key feature of the trainer is the capability to train air bursts on multiple targets with HE ammunition.

### **Sophisticated gunner feedback**

The trainer is equipped with a display for visual user feedback and a speaker for verbal audio information and weapon sounds. The presentation includes firing

sounds, firing results, distances and corresponding hit coordinates, as well as information on ammunition quantities, the selected training mode, BIT testing and battery level status. These features give gunners instant feedback without forcing them to move from their firing positions, thus enabling efficient repetitive training. As an option, the Carl-Gustaf Trainer is equipped with a high fidelity optical feedback system (TBOS). The gunner's view is augmented with tracer, burst and obscuration visualisation. The TBOS is synchronized with advanced ballistic simulations and the sound effects from the real weapons system are replicated in the trainer, from launch to impact.

### **Intelligent simulator grenades**

The Carl-Gustaf Trainer concept includes intelligent simulator grenades, implemented for ammunition both with and without fuse settings, HE and HEAT.



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The loading drill replicates that of a live grenade and upon insertion, the simulator grenade automatically transfers the ammunition type and fuse settings to the simulator.

### Safety aspects

Safety for gunners and surrounding personnel is a critical factor in the design of the weapon simulator. The material used in this laser weapon is evaluated to be safer than all other alternatives. The unconditionally eye safe, and the use of well-proven pyrotechnical devices, gives your forces the most advantage training system available.

### Instructor tools

Instructors play an essential role in all training. The instructor tool gives them the capabilities to provide objective and timely feedback, both on an individual and collective level. Instructors can plan, prepare, execute and evaluate gunnery training. Cost-efficiency, performance improvement and a positive learning curve are among the numerous benefits of using this system. Each gunner is individually evaluated and given positive training 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, aiming 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 optimize weapons system training.



### Description (• = Standard, o = option)

- Replica weapons, actual shape, weight and balance	•
- Requires correct weapons handling procedures, including lead angle and elevation	•
- Ballistic simulation (correct time of flight, lead angle and elevation for all effective firing distances)	•
- Tracer and obscuration simulation	O
- Instant gunnery feedback, text menus and audio feedback in English (native language optional)	•
- Laser Class 1, unconditionally safe	•
- Intelligent simulator grenades	•
- Environmental qualified to MIL-STD-810F	•
- Pyrotechnic fire signature, Flash Bang Smoke Simulation (FBSS)	O
- Instructor tool offline	O
- Instructor tool online (real time)	O
- Power supply, Li-ion 10.8V	•



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