



GUARDIARIS

Train The Brain.



# MANPADS AND AIRCREW TRAINER-**MAAT**

HIGHLY VERSATILE OUTDOOR TRAINING TOOL  
FOR MANPADS GUNNERS AND AIR CREWS.

## KEY FEATURES



- Simultaneous MANPADS operators and air crew training
- Exact weapon replica for authentic and accurate training
- Long range operation and MAWS detection (up to 5 km)
- Outdoor and indoor training capabilities
- Shoulder-launched or tripod-mount
- Robust design for outdoor operation (-10 °C to +35 °C)
- Battery operated
- Long endurance: 400 simulated missile launches
- Comprehensive After-Action Review
- Monitoring of operator/gunner performance in real-time
- Automatic report generation for each missile launch
- Built-in VIS camera records gunner-to-target view and orientation
- Customisable to any MANPADS





# ALL-IN-ONE TRAINER

Our game-changing Trainer offers realistic live MANPADS training with advanced analytics and reports.

The Trainer is used for simultaneous training of MANPADS operators, aircraft crews (helicopters, airplanes) and MAWS (Missile Approach Warning System) operators, pilots and electronic warfare officers.

MAAT consists of an exact MANPADS replica and a ruggedized laptop, which functions as an Instructor Control Station.

Tailored precisely to customers' needs, the Trainer can be customized to interoperate with any aircraft installed with UV based MAWS and support a multitude of simulated MANPADS missiles.

MAAT is transportable, fast to deploy, practical to use.



## | SUPPORTS ANY MANPADS

Typically used with replicas of the SA-24, MAAT's incredible adaptability allows modification to any type of MANPADS launcher (SA-18, SA-14, SA-16, SA-7...).

### FIM-92 Stinger



Guardiaris' inhouse experts use proprietary software and mechanical modifications to design the MANPADS of your choice (Type 91 Kai, FN-6, HN-5, QW-1, QW-2...).



# | PERFECT REPLICATION



MAAT is an ultimate digital twin of a real MANPADS, exhibiting physical, mechanical, functional and procedural capabilities of the real thing.

This ensures unmatched training realism through authentic handling of all operational procedures.





## EXCEPTIONAL COST - EFFECTIVENESS

Using MAAT, soldiers can perform approximately 100 sustained launches in under 2 hours of training with zero additional costs.

## VERSATILE & FLEXIBLE TRAINING

Besides MANPADS operators, MAAT is also intended for training aircraft and electronic warfare crews that respond to detected missile alarms.

The Trainer simulates rocket launches and triggers a missile detection alarm on any MAWS equipped with UV sensors which detect UV radiation in solar blind regions.

## FAST, EFFICIENT TRAINING CYCLE

Used for individual or squad training, the Trainer is built for long range (up to 5 km) UV detection on MAWS.

A set of batteries with remarkably long durability allows for over 400 missile launches.

Batteries can be replaced on-location in less than 3 minutes.

Its robust IP53 design makes MAAT operational outdoors within a wide temperature range (-10 C to 35 C).

### REAL AIRCRAFT IN EXERCISE OPERATIONS

During a surface-to-air attack exercise, electronic flares can be manually or automatically engaged after being triggered by MAWS detection.

### SHOULDER-LAUNCHED OR TRIPOD-MOUNTED

The tripod-mounted version is intended for endurance training of helicopter crews in "detect – react – manoeuvre" and countermeasures deployment training. The tripod relieves the gunner of the 17-kg MANPADS.

### SEAMLESS INTEGRATION

MAAT can be integrated in live large-scale exercises, and can be combined with other Guardianis Trainers for diverse collective training.







## | ANALYTICS AND REPORTS

### INSTRUCTOR STATION

A military-grade ruggedized laptop ensures full control over all training modalities, including scenario editing and settings manipulation and analytics.

### PROPRIETARY GUARD SOFTWARE

Cutting-edge simulation software enables detailed real-time monitoring of MANPADS gunners. Data collected during exercises via various motion sensors presents instructors with a comprehensive After-Action Review for detailed soldier evaluation.



## GET IN TOUCH

Contact us for detailed MAAT technical specifications and customization possibilities.

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