GUARDIARIS
Train **The Brain.**

MAAT

MANPADS AND AIRCREW TRAINER

Guardiaris' MAAT is a one-of-a-kind outdoor solution that provides the most comprehensive simultaneous MANPADS and aircrew training. Easily integrated with other Guardiaris' Trainers for larger tactical exercises, MAAT is used to train MANPADS gunners, aircrews, MAWS operators and electronic warfare officers simultaneously.

KEY
FEATURES

- MANPADS and aircrew simultaneous trainer
- Exact simulated pattern of missile
- Compatible with any MANPADS system
- Day and night outdoor usage
- NATO approved
- Exact weapon replica for authentic and accurate training
- Long range operation and MAWS detection (up to 5 km)
- Shoulder-launched or tripod-mount

- Robust design for outdoor operation
- 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

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.

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...).

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

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 weapon. 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).

MAAT - MANPADS and aircrew training
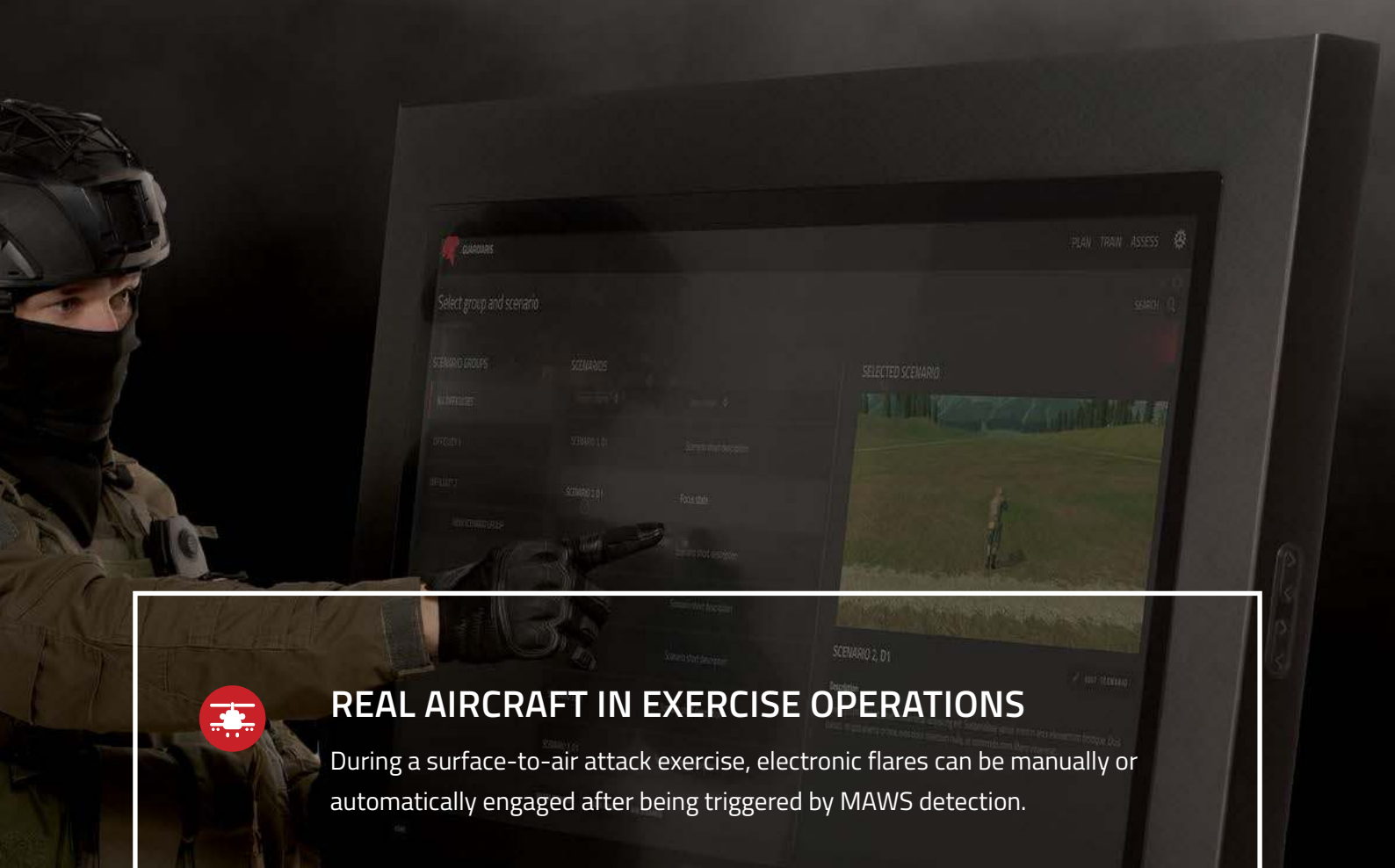
ANALYTICS AND
REPORTS

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.

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 Guardiaris Trainers for diverse collective training.

ABOUT
GUARDIARIS

CREATING NOVEL STANDARDS FOR THE PERFECT TRAINING GROUND.

Guardiaris is a highly innovative company specialised in the production of custom-designed training solutions for the defence industry. Our dedicated team of in-house experts has been providing customers with bespoke solutions and support for over 16 years. Proprietary synthetic environment simulation software registered under the GUARD trademark is continually upgraded to provide one of the most advanced simulation-based solutions on the market. Guardiaris simulation software renders highly realistic terrains and environments, simulates various weather conditions and time of day changes, and calculates exact vehicle dynamics and weapon ballistics.

Guardiaris patented solutions guarantee superb training with comprehensive data management for excellent assessment and precise After Action review. Our products are deployed across Europe, the Middle East, Asia, and South America.

GET IN TOUCH

Contact us to receive a detailed
technical overview of the Trainer and
order your custom-designed solution.

sales@guardiaris.com

Guardiaris d.o.o., Podjunska ulica 13,
1000 Ljubljana, Slovenia, EU,

+386 41 779 777

GUARDIARIS

Train **The Brain.**