GUARDIARIS
Train **The Brain.**

MATS

MANPATS TRAINER

LASERLESS

POSSIBLE SYSTEM INTEGRATION

STANDALONE TRAINER

EXACT WEAPON REPLICAS

FULL MOBILITY

KEY FEATURES

- Exact weapon replica for authentic and accurate training
- Any MANPATS type can be produced
- Simultaneous training of up to 6 soldiers
- Standalone solution or with projection screen
- Training of target identification and elimination at various ranges

- Simulation of realistic combat tactics, techniques, and procedures
- Accurate simulation of ballistics and damage effects
- High-fidelity virtual environment
- Real-time performance monitoring
- Advanced analytics and reports

MANPATS Trainer, MATS is a mechanical, functional, and procedural digital replica of the real weapon. MANPATS houses all sensorics, computer and batteries in the special launch tube insert. Projectile characteristics are simulated with 100% accuracy.

The simulator consists of an exact MANPAT system replica and the control station, which is a server and the main computing point. It is preinstalled in GUARD™ simulation software and the highly versatile GUARD™ Control Panel (GCP) software. It ensures exercise planning, implementation and evaluation, instructor-soldier communication, and a comprehensive After-Action Review.

VERSATILE AND FLEXIBLE TRAINING

Designed for infantry and special forces, the indoor trainer is intended for effective "engage and destroy" training. A variety of ground-based targets include main battle tanks, light armoured vehicles, fortified facilities, bunkers, etc. Training of target identification and elimination is available at various distances and velocities. The MANPAT Trainer simulates exact ballistics and damage effects based on the type of warhead and target hit.

Multiple MATS systems can be networked together, allowing simultaneous training of multiple dislocated units in one common scenario.

RGW 60

The realistic replica of the RGW 60 weapon ensures superb effectiveness and efficiency of the training. RGW 60 replica is wirelessly connected with the control station.

SUPPORTS ANY MANPATS TYPE

Any portable anti-tank system can be simulated. Wireless simulators are housed in the realistic and durable weapon replicas with 360° synthetic environment displayed in the optical sight. The visually immersive, high-fidelity environment supports dynamic meteorological, day and night parameters affecting visibility and ballistic calculations to enhance the training.

RGW 90

The realistic wireless replica of RGW 90 simulates all warhead types (HH, ASM, LRMP, etc.) and all aiming devices.

PZF3

Like the real weapon, the trainer is equipped with an active spike for simulating different war heads. Operating modes for engaging stationary or moving targets are simulated through a standard firing device or Dynarange fire control sight.

RGW 110

RGW 110 is a direct successor to the Panzerfaust 3 family. The simulator is able to train all the functions, including the aiming devices, with an effective range up to 800 m, and can engage targets at roughly twice the range of the predecessor.

RE84

The wireless RE84 trainer simulates all weapon functionalities and automatically recognizes the type of ammunition (HEAT, smoke, illumination, etc.) loaded in the barrel. All components of telescopic sight are fully simulated.

ALCOTAN-100 (M2)

Alcotan-100 (M2) is a light, shoulder-fired weapon, with a range of 600 m against point targets, and up to 1100 m against area targets. The realistic replica increases the excellent weapon handling ability and efficiency of the training.

C90-CR

The C90 is a 90 mm caliber light multi-role shoulder-launched weapon system with an effective range of 350 m for point targets and 700 m for area targets. Like the real weapon, the realistic replica consists of all features and controls necessary to aim, fire, and engage targets.

UNPARALLELED TECHNOLOGY

GUARD SIMULATION TECHNOLOGY

Guardiaris solutions are driven by the in-house developed GUARD™ simulation graphics engine. Advanced real-time data capture, simulation of true ballistics and AI generated forces offers diverse training possibilities in highly realistic environments. A powerful user-friendly training management interface allows fast scenario prototyping as well as full freedom of complex scenarios creation.

COMPREHENSIVE AFTER-ACTION REVIEW

The After-Action Review (AAR) ensures fast data collection, classification, and aggregation for comprehensive post-training analytics on individual or squad level. The AAR also provides insight into the trainee's first-person view, which includes tracking and visual feedback of all operating procedures executed during the exercise.

ALL-IN-ONE TRAINING PLATFORM

Guardiaris products aren't just standalone tools – they can form a larger training platform designed for complex tactical training by combining various simulators in a joint synthetic environment. Connect small arms, anti-tank weapons, military vehicles with remote weapon stations, and portable air defence systems in one tactical scenario.

Fully compatible indoor, outdoor, and mobile Guardiaris' trainers:

- **SATT** - SMALL ARMS TACTICAL TRAINER
- **SAMT™** - SMALL ARMS MOBILE TRAINER
- **MMVT** - MODULAR MILITARY VEHICLE TRAINER
- **MATS** - MANPATS TRAINER
- **MAAT** - MANPADS AND AIRCREW TRAINER
- **IMOT** - INDOOR MORTAR CREW TRAINING
- **AFOT** - ARTILLERY FORWARD OBSERVER TRAINER

HLA INTEROPERABLE

Our simulators have an interoperability option, allowing seamless connections with external simulator systems.

GET IN TOUCH

Contact us for detailed MATS technical
specifications and customization possibilities.

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ISO 9001

BUREAU VERITAS
Certification

AQAP 2110

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