

ZEN TACTICAL ENGAGEMENT SIMULATOR (ZEN TacSim®)



Zen Tactical Engagement Simulator is a real-time, force-on-force training system that enables troops to conduct two-sided live exercises to replicate actual combat. Live training with Zen TacSim® trains the soldier in utilising individual skills acquired during weapon training, field-craft, battle drills & live firing exercises while carrying out operational tactical exercises. The system provides efficient tools to evaluate individual skills & tactical performance. The simulator is suitable for both outdoor & indoor/built-up area exercises. The simulator detects lasers fired from different weapon systems and effectively records the result of an engagement. The tactical combat simulator enables use of personal weapons, Company/Battalion support weapons and weapons/ammunition of other Supporting Arms such as Artillery/Tanks/ICVs fire & integration of mines/IEDs in actual or simulated form.

Zen TacSim® uses harness sets with laser detectors for personnel/equipment and integrates GPS, Control Unit and a Communication Module. Audio-visual alarm is activated on being hit and the alarm signal varies depending on the severity of injury/damage. The simulator deactivates a soldier's harness set/weapon on a serious injury/kill. They can be reactivated with the Umpire Control Gun carried by an Umpire. Exercise Control Centre (Excon) enables the Instructor/Commanders to control and monitor the conduct of exercise. It comprises of scalable PCs, display units and RF communication system. The training area is displayed as 2D/3D map and the status and movement of trainees and equipment is depicted in near real time. It facilitates virtual mine laying and simulation of Artillery fire. The Excon collects and stores all exercise data from the training area. The status of any player and combat situation can be monitored or altered from the Excon. Record, replay & print facilities enable instructors to analyse events and actions for an interactive After Action Review (AAR) session with the trainees.

Features:

- Modular & scalable system for training needs. Can exercise upto 3000 troops with supporting elements.
- Covers effectively a training area upto 5 kms diameter. Additional range obtained through repeaters.
- Excon and communication module equipment is light, portable & mobile. Can easily be mounted & transported cross-country on a light Jeep-like vehicle.
- Battlefield commanders can conduct briefings, analyse terrains, plan operations & test efficacy of plans.
- Rugged, simulates accurate firing of weapons/detection of hits & is tamper proof.
- Simulates minefields, artillery fire, booby traps/IEDs & grenade effects.
- Seamless transition from outdoor to indoor activity.
- Room Awareness Device (RAD) enables soldiers/sub-units to train in built-up area/indoors, where GPS is ineffective.
- Effect of direct fire weapons such as RL on building structures and troops inside buildings is simulated & effects recorded.



ZEN TECHNOLOGIES LIMITED

B-42, Industrial Estate, Sanath Nagar
Hyderabad - 500018, Telangana
India

Phone: +91 40 2381 2894/4894/3294
Fax : +91 40 2381 3694

Website: www.zentechnologies.com
E-Mail : mktg@zentechnologies.com

