

ARTILLERY TRAINING SIMULATION SYSTEM (ATSS)

- Simulation and Training Systems
- Field Services
- Military and Aerospace Manufacturing
- Meteorological Products and Systems



ATSS was designed to train artillery procedures to all levels of army personnel. This multi-media, computer-based system trains:

- Artillery procedures for individuals, teams, and units
- Theory of operation and equipment familiarization

ATSS runs on multiple PC-based stations, including instructor stations, training stations, central area stations, and evaluation stations in an Ethernet Local Area Network. The simulator is designed for growth to allow the addition of more stations, servers, equipment, terrain scenes, models, and enhanced evaluation capability; as well as provide for connection to actual guns, meteorological stations, and reconnaissance devices.

Expansion options include interface with Command and Control and with Gun Crew.

A key feature of the system is the integration of simulated field equipment in the training tasks. This provides a virtual experience that replicates every aspect of the field experience. Simulated equipment includes laser range finders, a night vision device, a thermal vision device, angular measuring systems, fire control system equipment, and reconnaissance observation vehicles.

FEATURES:

- Full 3D System with enhanced elevation modelling and 3D models
- Trains Forward Observer, GUN Commander, Battalion Fire Direction Center, Battery Fire Direction Center, Fire Support Officer
- Artillery Weapons and Enemy Targets Simulation
- Computer-Generated Forces
- Instructor-Controlled Scenarios/Battlefields/ Trainee Viewpoints
- Simultaneous Execution of Different Scenarios at Different Stations
- Full Environmental Simulation
- Networked, DIS/HLA Protocol
- Transportable and Deployable
- Simulated Military Equipment
- After Action Review

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Expansion options include interface with Command and Control and interface with Gun Crew.

TRAINING MODES

- **Stand-alone (independent) training:**
 - Forward Observers (FOs)
 - Fire Support Officers (FSOs)
 - Battalion Fire Direction Center
 - Battery FDC
 - GUN Commander(s)
 - Combined Team
- **Combined Team:**
 - FSO with subordinate FOs
 - Battery FDC with Guns
 - Battalion FDC + Battery
 - FDC+FSO+FOs
 - Battalion FDC+Battery
 - FDC+Guns+FSO+FOs

Training tasks easily can be added per customer requirements to support specific military doctrine and training goals.

TRAINING FEATURES

- **Trains entire Artillery Team**
- **Skills trained include:**
 - Initial Call for Fire, Adjustments, Fire for Effect at Battalion and Battery Levels
 - Target ID (acquiring target/self location)
 - Trains Position List, Target List, Net Target List, Correction List
 - Technical and Tactical Fire Control
 - Low- and High-Angle Fire
 - Target Analysis/Fire Plans
 - Gun Registration
 - Working with Digital Maps
 - Ammunition Stock and Consumption
 - Field Equipment including laser rangefinders, night vision binoculars, thermal imager, fire support system digital entry device



SYSTEM FEATURES

- Full 3D Environment with 3D Models
- Pre-Defined and Customized Instructor-controlled Scenarios/Battlefields/Trainee Viewpoints
- Student Stations simultaneously run different Scenarios
- Realistic Battlefield Simulation with Fire Effects and Sound Simulations of Artillery Weapons and Enemy Targets
- Realistic Enemy Behavior
- Computer-Generated Forces
- Integrated Simulated Military Equipment (Actual replicated devices)
- Virtual Military Equipment (devices replicated on computer screen)
- Full environmental Simulation (day/night); rain/snow; fog/smoke; illumination; thermal imaging
- Scalable system designed for growth
- DIS Interface /HLA Protocols
- All stations and equipment interface and communicate with Instructor Station
- Voice Communication System with multiple radio networks available at each station
- After Action Review and Question and Answer Programs
- Evaluation Data includes: Call for Fire duration, Call for Fire Radial Error, Accuracy of Registration, Accuracy of Self-Location

For more information, call
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