

# ITAS-TESS FIELD TRAINING SYSTEM

*A fielded Laser-based system designed to conduct simulated live fire weapon engagements for crew and collective force-on-force training missions.*



**SIMULATED LIVE FIRE ARTILLERY WEAPONS TRAINING**



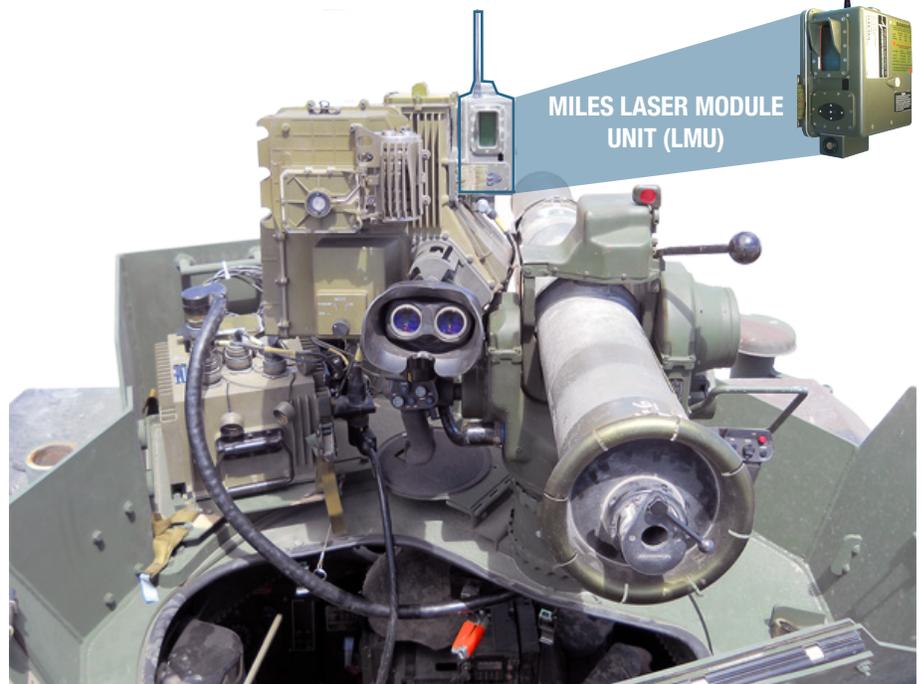
ITAS-TESS features a boresighting capability, aided target tracking, embedded training, and built-in test (BIT). The ITAS TESS system can be used in a fully instrumented mode telemetering all data in real time, or a Laser only mode for crew level, laser based training. Training event data is passively collected and transmitted to a Mobile Command and Control (MCC) display and monitoring system for playback and After Action Review (AAR).

## **INSTRUMENTATION PLAYER UNIT (IPU)**

The IPU contains a central processor for MILES weapon engagements, and is also a target in Geometric Pairing engagements. Player types, ammunition loads, and radio frequencies are programmable during initialization. RTCA is indicated visually by the IPU Status Kill Indicator (SKI) and audibly with a built-in alarm.

The Improved Target Acquisition System - Tactical Engagement Simulation System (ITAS-TESS) provides the capability for the Warfighter to train with the M41 TOW ITAS anti-tank weapon system and conduct weapons engagements using normal tactics, techniques and procedures (TTPs).

The platform is instrumented as a shooter and a target, mounted or dismounted, in a stand-alone system, or as an integrated component at U.S. Army Combat Training Centers (CTCs).



**Over 520 systems manufactured, fielded and maintained for U.S. Army Field Artillery Home Stations and CTCs**

# ITAS-TESS FIELD TRAINING SYSTEM

The IPU includes built-in GPS, Telemetry RF radio, and Greenlinks RF radio. A wireless Vehicle Area Network (VAN) is provided by instrumenting the platform with Wireless Laser Sensors (WLS) that integrate with the IPU.

## WIRELESS LASER SENSORS (WLS)

WLS decode incoming MILES laser energy and transmit the data to the IPU via the VAN. Six are installed per vehicle platform to provide 360° coverage.

## FIRE CONTROL SYSTEM-DATA MODULE (FCS-DM)

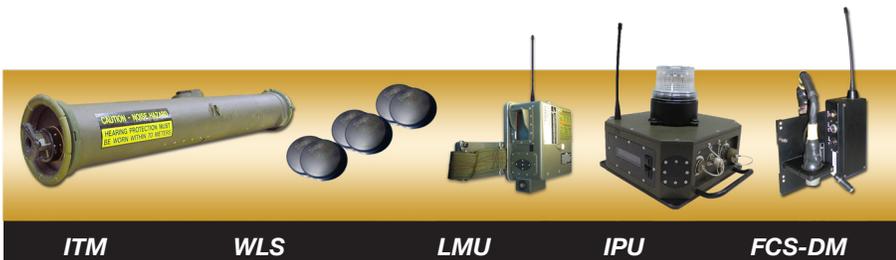
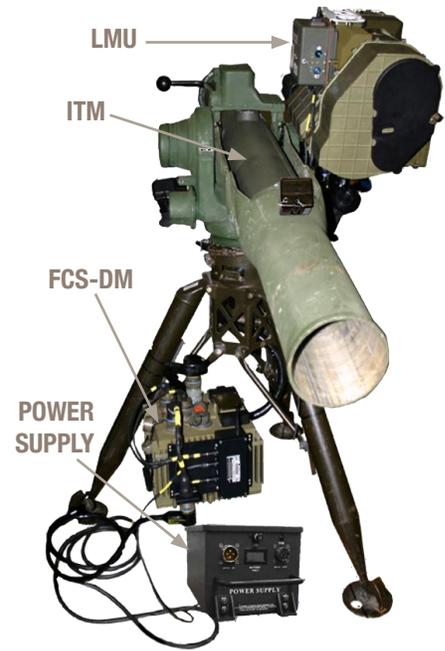
The FCS-DM receives Laser range data, missile type, trigger indications and power from the weapons Fire Control System and transmits this data wirelessly to the IPU.

## ITAS TRAINING MISSILE (ITM)

The ITM replicates the size, weight, center of gravity of the TOW missile. Target acquisition is accomplished using the TOW sight and an ATWESS pyrotechnics cartridge to emulate realistic weapon launch with audible and visible indicators.

## LASER MODULE UNIT (LMU)

The LMU is comprised of a MILES Laser and an eye-safe boresight Laser. An LCD displays system status, BIT data, far target location, ammunition status, ARM and SAFE indications. The LMU retains boresight during movement over rough terrain and is easily verifiable to line-of-sight.



*The IPU and WLS are transferable to any vehicle providing a fully deployable, mobile training system.*

## SUPPORT EQUIPMENT

A Hand-Held Initializer (HHI) is used to initialize and associate the FTS subassemblies and configure the network. It uses IrDA to change radio configurations and set Player ID, platform type, weapon type, and weapon load for the base IPU.

Home Station options include Telemetry Repeaters to extend radio coverage, and the Modular Mobile Command and Control (MMCC) for real-time data monitoring, recording and playback capabilities for AAR.



## MOBILE TARGET SET

The Mobile Target Set is used to provide an Opposing Force (OPFOR) on the MILES Battlefield. The Target Set can easily be used on any vehicle, platform or location. Components include the IPU, Wireless Laser Sensors (WLS) and Wireless Shoot-Back Laser (WSBL).

## FEATURES & BENEFITS

- » Provides low-cost, realistic weapons training
- » Maintains operator proficiency
- » Reduces ammunition and range requirements
- » Tracks and displays real-time player and event data
- » Simultaneously monitors and records data for AAR
- » Provides a network interface at the CTCs



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*With over 520 systems fielded, ICE provides ongoing support under Warfighter FOCUS (WFF) for Depot Repair and Field Support at the CTCs.*