

# E-TARSUS

INSTANT POSITIONING  
NO LEVELLING  
SURVEY AND GUN LAYING  
ONE MAN OPERATION  
RAPID DEPLOYMENT





# E-TARSUS

E-TARSUS is a new generation artillery survey and gun laying system designed to meet the future requirements of artillery surveyors in the rapidly morphing multi-dimensional environment of the 21<sup>st</sup> Century battlefield. It retains its evolutionary genes from the field proven pioneering design architecture of TARSUS system which is in service with Turkish Army, and shapes the future of artillery survey.

The system is composed of a high accuracy INS/GPS system integrated with a top performance eyesafe Laser Range Finder and high performance compact optics. The system's user friendly MMI transforms resident extensive survey algorithms to a one touch operation scheme and inexperienced personnel can operate the system with minimal training. E-TARSUS operates on a vehicle or on a tripod and can be easily deployed everywhere in the battlefield.

The system establishes high accuracy survey control points (SCP) and orienting lines (OL) in GNSS denied environment, lays howitzers and other fire support assets with standard gun laying techniques with an unmatched flexibility and, reports target coordinates if required, in its lots of spare time.

## One Man Operation

- Novice Surveyor, MOS Immaterial Soldier Operable With Minimal Training
- Menu Guided SW
- Digital Map
- Personnel Savings

## High Performance Integrated Optics

- Eyesafe LRF with unprecedented accuracy up to 20.000 meters range.
- Very Accurate and stand-off Target Location Reporting Capability Provides Surveillance/FO Role.
- High Quality, Compact Optics with 26x Magnification Provides Clear LOS View with Every Detail.

## Shaping The Operational Doctrine

- One System, One Man Replaces IPADS, GLPS, Aiming Circle, Total Stations.
- Common Grid in GNSS Denied Environments.
- Complete Solution for Survey, Navigation, Transfer of Azimuth and Deflection
- No Leveling, No Measurement Time
- Immediate Establishment of Survey Control Points and Orienting Lines
- Lightweight, One Man Portable and Operable.
- Operation on Backpack, Tripod or Tactical Vehicle
- Flexible Deployment Capability Provides Laying Howitzers in Defilade.

## Effective Force Multiplier

- Provides Rapid Deployment Capability to Howitzers without INS
- Artillery Survey
- Gun Laying
- Surveillance

## Continuous Independent Operation

- Hot Swap Battery Replacement during Operation
- More than 8 hours Standalone Operation with One Set of Batteries

## Proven Innovative Design

- Variant In Service (since 2004) and In Active Production for Turkish Armed Forces.
- Extensive Know-How of ASELSAN in Artillery Survey and Navigation Systems Solutions.

## Technical Specifications

- Performance : MIL-PRF-71185
- Weight : < 15 kg.
- Dimensions : <42x27x26 cm
- Operational : Establishment of SCP : Instantly  
: Establishment of SCP and OL < 1 min.
- Environmental : MIL-STD-810F/G Qualified Components

