# HattoriX

## Comprehensive solution for ISTAR dismounted forces

### The HattoriX solution provides crucial operational benefits:

- **Improved SWaP** – A dismounted solution designed to support prolonged missions with optimal size, weight and power.
- **Modular configuration** – Tailor made for the customer's specific requirements, while enabling the integration of various electro-optics, LRF, designators, $C^4I$, radio, radar and more.
- **Accurate target acquisition** – Target Location Error (TLE) CAT-1 is provided via extraction of high-accuracy 3D coordinates using a photogrammetry algorithm.
- **Connectivity and interoperability** – HattoriX's unified system communications and power pack enables several systems to operate in conjunction with each other - increasing operational effectiveness.
- **Improved Situational Awareness** – Integrated video with GIS database processing provides enhanced battlefield management by matching mission planning elements with video input.
- **Highly efficient fire engagement** – Users have the flexibility of choosing the most optimal engagement platform available.

Elbit Security Systems Ltd. (ELSEC) – an Elbit Systems Ltd. subsidiary and part of Elbit Systems' ISTAR division, capitalizes on its close cooperation with defense forces around the world. With extensive technological and operational experience, ELSEC translates operational needs into technologies and products, bringing them together to provide complete and comprehensive solutions.

* Elbit Systems may at any time make improvements or changes to the products or specifications without notice


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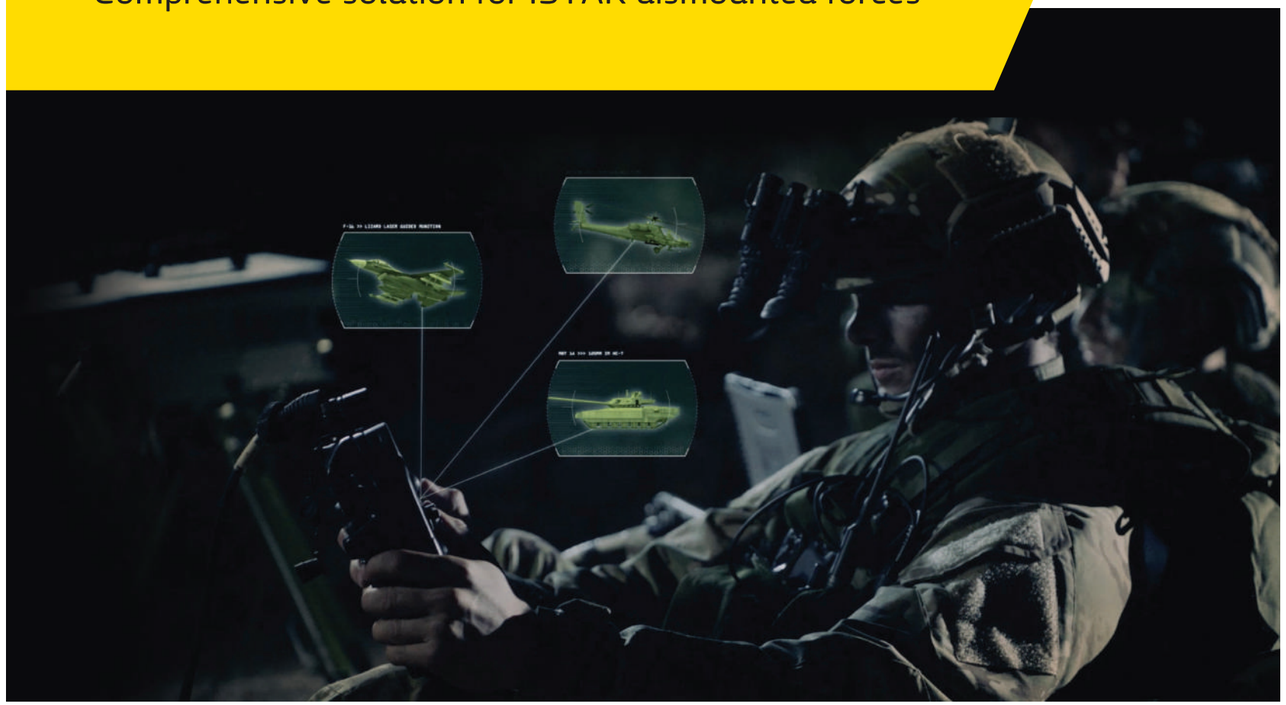

**HattoriX** is a next-generation fire support and intelligence solution for dismounted forces, designed to shorten the sensor-to-shooter cycle while engaging fire effectively and accurately.

The **HattoriX** solution offers the dismounted team an independent intelligence collection-and-analysis capability for immediate and accurate target engagement, while minimizing collateral damage.

By integrating several technologies into one comprehensive solution, **HattoriX** exploits Elbit Systems' ISTAR assets more efficiently than ever before, enabling precise and rapid execution of complex ISTAR missions.

**HattoriX** is designed for dismounted operational users, including Forward Observers (FO), Forward Air Controllers (FAC), Joint Terminal Attack Controllers (JTAC), reconnaissance, field intelligence and Special Forces.

## The HattoriX solution has four different configurations to enable operational flexibility:

- **MINI HattoriX** – lightweight, manually operated configuration for medium-range dismounted ISTAR missions
- **MINI HattoriX RC** – lightweight, remotely-controlled configuration for medium-range dismounted ISTAR missions
- **HattoriX** – manually operated configuration for long-range dismounted ISTAR missions
- **HattoriX RC** – remotely-controlled configuration for long-range dismounted ISTAR missions

### Manual Goniometer

| | |
|---|---|
| Positional Accuracy | 0.3mil in both axis with respect to North reference |
| Payload Capacity | Mini HattoriX - up to 5kg<br>HattoriX - up to 20kg |
| Internal Sensors | GPS, digital compass and digital leveling |

### Mission Computer

| | |
|---|---|
| Map Display | 2D and 3D digital map |
| Target Data Bank | Including Geo location, target image and video |
| Target Acquisition Capabilities | Active (using LRF)<br>Passive (without LRF) – dependent on GIS database<br>Accurate (TLE CAT-1 using photogrammetry algorithm) |

### Power and Communications Distribution Unit (PCDU)

| | |
|---|---|
| Power | Battery power<br>External power |
| Communications | Ethernet switch<br>USB Hub |

### Remote Controlled Goniometer

| | |
|---|---|
| Positional Accuracy | 0.3mil in both axis with respect to North reference |
| Payload Capacity | Mini HattoriX RC - up to 5kg<br>HattoriX RC - up to 20kg |
| Internal Sensors | GPS, digital compass and digital leveling |
| Azimuth Velocity | Min 0.2mil/sec; Max 350mil/sec |
| Elevation Velocity | Min 0.2mil/sec; Max 180mil/sec |

### Lightweight Tripod

| | |
|---|---|
| Construction | Carbon fiber combined with aluminum |
| Leveling | Built-in ultra-fine leveling mechanism |
| Working Height | 20-120cm |
| Payload Capacity | Mini HattoriX/RC - 10kg<br>HattoriX/RC - 30kg |

### Display Unit

| | |
|---|---|
| Software | Video display with graphical overlay<br>Video recording |

### Camouflage

3D Multispectral TVC Material