

TLS40i

Compact Day/Night Target Location Device



Features

- High-magnification day/night observation
- Long-range, single-pulse laser rangefinder
- Integrated digital magnetic compass & GPS
- Provides target and own GPS coordinates
- Fall-of-shot and survey mode provides fire correction capability
- User-friendly, menu-guided operation
- Powered by commercial CR123 batteries
- Lightweight <2 kg, including batteries



We make it visible.

TLS40i

The TLS40i is a compact, lightweight, high-performance, day/night, handheld target location device. The innovative product combines a long-range laser rangefinder, observation day channel, image-intensified night channel, GPS, digital compass and optional digital camera into a compact and lightweight package.

The class 1 eyesafe laser rangefinder is safe under all conditions, yet effectively measures ranges up to 20 km. The rangefinder will detect and display up to three multiple targets at any range and enables a user-adjustable minimum range gate.

The monocular day sight with image-intensified night channel provides unique, high-magnification 24-hour observation capability. A high-resolution data display is projected in the lower section of the field of view, enabling unobscured vision of the target observation area. The aiming reticle with aiming circle and mil scales automatically illuminates in low-light operating conditions.

At the press of a button, the TLS40i will acquire and display the target range, bearing, elevation, own and target GPS locations. If required by the user, an image (with geotagging metadata) of the target and voice description may also be recorded. Real-time composite video output (NTSC and PAL) is also available for live viewing or recording of the image being viewed. The TLS40i is equipped with external USB and serial interfaces to enable effective transfer of target information to digital mapping systems or mission command. The target image and voice description facilitates target verification and mission planning, thereby thus reducing the risk of collateral damage.

TLS40i features a fall-of-shot function, which provides fire correction data for artillery and mortar forward observer applications. A survey function enables the user to determine the distance between two objects. The system is compatible with a wide range of external GPS systems, including in-service military PLGR / DAGR GPS.

Technical data

Day / Night Monocular Sighting Channel

Magnification	7 x
Field of view	6°
Diopter adjustment	-4 to +4 diopters
Laser protection	Against 1064 nm
Image intensifier tube	2 nd & 3 rd Gen options

Laser Rangefinder

Type	Single-pulse, OPO Shifted Nd: YAG
Eye safety	Class 1 (IEC60825)
Repetition rate	10 ppm/20 ppm (burst)
Range capability	80 m – 20,000 m
Range accuracy	±5 m
Multiple target detection	3 targets (first, second & Last)

Digital Magnetic Compass

Azimuth accuracy	±10 mils (2 σ)
Elevation angle	±45°
Elevation accuracy	±4 mils (2 σ)

GPS

Type	12 channel L1 C/A
Position format	UTM, MGRS, BNG & Lat/Long

Day Camera and Voice Recording (Optional)

Function	Target snapshot with Geotagging
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Power & External Interfaces

Battery power	3 x CR123
External power	6 - 15V DC
Serial interface	USB 1.0, RS232, RS422 & RS485
External GPS	Rockwell Collins PLGR / DAGR

Mechanical

Weight	<2kg
Size	187 mm x 173 mm x 91 mm

Environmental

Operating temperature	-32°C to +53°C
Storage temperature	-40°C to +70°C

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