

NORTHROP GRUMMAN*Electronic Systems***GLTD II****Ground Laser Target System**

*Enable
combat
soldiers
to direct
laser-guided
smart weapons*



The GLTD II can be implemented as part of a sophisticated, digitized fire control system with thermal or image-intensified sights.

The GLTD II is a compact, lightweight, portable laser target designator and rangefinder. The GLTD II is capable of exporting range data via an RS422 link and importing azimuth and elevation. Developed to enable combat soldiers to direct laser-guided smart weapons, such as Paveway bombs, Hellfire missiles and Copperhead munitions.

Versions of the GLTD II are currently in use by various NATO countries and other armed forces around the world.

Features:

- **Readily Integrated with Other Day/Night Observation Systems**
- **Range, Azimuth, and Elevation Displays**
- **RS-422 Full Duplex, 9600 Band Data I/O**
 - Output: Range and Laser Status
 - Inputs: Azimuth and Elevation Bearing
- **Laser Boresighting by Soldier**



GLTD II Ground Laser Target System

System Specifications



Physical Characteristics

- Size: 11.2 x 13.2 x 5.2 inches
(28.5 x 33.6 x 13.1 centimeters)
- Weight: 12.1 lbs (5.6 kg)
- Volume: 436 cubic inches (7,145 cubic cm)
- Operating Temperature:
-30° C (-° F) to +40° C (+° F)
- NATO: mounting rail for night vision devices
- Tripod Interface: ¼"-20 tapped hole
- Tilted Eyepiece: 45 degrees
- Operation Manual and Remote Control
- Battery Power: 24 Volt DC
Lithium or Re-chargeable NiCad
- Vehicle Power: 28 VDC (MIL-STD-1275)

Performance

- Laser Type: Nd YAG
- Wavelength: 1.064 μ m
- Pulse Energy: 80 millijoules
- Pulse to Pulse Stability: 15%
- Beam Divergence: 0.3 mrad
- Boresight Retention: 0.3 mrad
- Modes: Range and Mark (Designate)

Ranging

- Ranging: 200 to 19995 meters (+/-5 meters)
- Range Counter Logic: Selectable First/Last
- Range Discrimination: 35 meters
- Display: 5 Digit Red LED in Eyepiece

Sighting Optics

- Power: 10X
- Field of View
Horizontal: 5 Degrees
Vertical: 4.4 Degrees
- Reticle: 0.2 mrad open cross
- Diopter Adjustments: +2 to -6
- Exit Pupil: 5 mm Diameter (nominal)
- Eye Relief: 15 mm

Mark (Designate)

- Marking: Target in Excess of 10 km
- Pulse Repetition Frequency: Band I / Band II
- User Programmable PRF Codes
- PRF Coding: Selected by Three Push-Buttons

I/O and Data Display

- Data Input and Output: RS-422 Compatible, Full Duplex
- DATA OUTPUT
- Range: 5 Digit Display
- DATA INPUT
- Azimuth: 0000 to 6399 mils or 0 to 359.9 degrees
- Elevation:
- 400 to + 400 mils or
- 22.5 to + 22.5 degrees



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