

# DHY 307



# DHY 307

## GLTD - GROUND LASER TARGET DESIGNATOR FOR LASER GUIDED WEAPONS

LIGHTWEIGHT

FLEXIBILITY OF USE

LONG RANGE  
ILLUMINATION

NATO  
INTEROPERABILITY  
PROGRAMMABLE

COMBAT PROVEN

### OPERATION CONCEPT

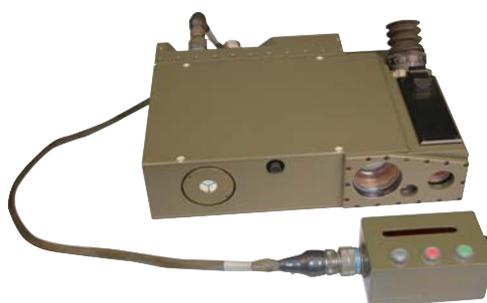
The low weight, low signature designator is intended to be used by special forces as a stand alone device or mounted on an optronic turret. It provides high precision guidance for all types of weapons with final laser guidance.

### BENEFITS

- Remote control unit up to 50 m or full control by a Fire Control System (FCS)
- Extremely stable performances
- Long illumination duration
- Computation of target coordinates (with optional goniometer)
- Very low IR signature
- Power supply versatility
- Very low noise signature
- Low optical profile
- Lightweight
- Memory storage capability: 670 codes
- All types of codes are programmable (NATO or others)
- Integrated range finder (up to 20 km)
- Interface capability with thermal camera or night vision intensifier systems
- Installation on optronic turret or vehicle

### ACCESSORIES

- Goniometer: the DHY 307 can be associated either with an optical or an electronic angulation head. In this case, the electronic goniometer can be coupled with a GPS to determine target coordinates with high accuracy.
- Tripod: can be customized to needs.
- Thermal camera/night vision intensifier: for night missions, the DHY 307 can be coupled with different types of thermal cameras or night vision intensifiers according to needs.
- Mechanical interface: the DHY 307 can be installed on vehicles or on electro-optical platforms.
- Special cabling: the DHY 307 battery can energize the accessories.





## OPERATING CHARACTERISTICS

The DHY 307 has been successfully proven in guiding any types of laser-guided weapons: bombs, missiles and artillery shells, (NATO and others).

### Performances

- Laser type; ND: YAG
- Wavelength: 1.064 micrometers
- Pulse energy: > 80 millijoules
- Beam divergence: 0.3 mrad
- Modes: target designation and ranging
- Operating temperature: - 40° C to + 50° C
- Storage temperature: - 54° C to + 71° C
- Tested to MIL-STD-810 for: vibration, shock, humidity, rain, sand, dust, immersion, etc.

### Sighting optics

- Magnification: X7
- Field of view: 100 mrad
- Reticle: 0.5 mrad
- Diopter adjustment: + 2 to - 6
- Eyepiece protection: Density > 53 dB at 1.064 nm
- Tilted eyepiece: 45 degrees

### Mark (designate)

- Pulse repetition frequency:
  - NATO: Stanag 3733
  - Russian codes
  - "customer specific" codes
- Marking: in excess of 5 km (typical)

### Ranging

- Ranging: 300 m to 20 km
- Accuracy: +/- 5 m
- First and last echoes
- Range discrimination: 40 m

## TECHNICAL CHARACTERISTICS

### GLTD

- Weight: < 8 kg
- Size: < 370 x 240 x 110 (mm)
- Mechanical interface for thermal camera or image intensifier
- Tripod interface
- Fire control with a remote control unit or directly by FCS
- Power supply: 28 volt DC, disposable lithium, re-chargeable lithium-ion or any kind of 28 volt DC External Power Supply

### Status

Mass production

### Data displays

- 5 digit Range
- BIT indicators
- Low battery
- Overheat
- Target coordinates (on optional electronic goniometer)



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