

Mark VIIE Enhanced Lightweight Handheld Target Locator



The Mark VIIE is Northrop Grumman Laser Systems' newest addition to its portfolio of world class tactical lasers designed for the warfighter. Like its predecessor Mark VII that was proven in the mountains of Afghanistan and deserts of Iraq, Mark VIIE provides accurate target location necessary to employ precision guided munitions anytime, anywhere on the modern battlefield. Weighing approximately five pounds with an embedded GPS and operating on commercially available batteries, Mark VIIE offers significant improvements to the Mark VII system. This handheld target locator provides both direct view day optics and an uncooled thermal sight for night operations. This gives the warfighter the capability to locate targets to 7 km on a clear day and approximately 1 km at night.

Mark VIIE is designed to be upgradeable through a spiral development process. Incremental improvements in performance are expected as component technologies improve.

Mark VIIE upgrades under development include additional low light capability, infrared pointer, inertial navigation system for improved target location error, USB and wireless communication.

Mark VIIE is a sleek, hand held target locator available for use by Forward Observers, Joint Terminal Attack Controllers, Special Operations Forces and Scouts well into the 21st Century.

Mark VIIE Benefits:

- **Lightweight - 5.5 lbs**
- **Ranges out to 20 km**
- **Uncooled Thermal / Instant On**
- **Precision Target Location**
- **Embedded GPS / SAASM**
- **Direct View Optics**
- **Uses Commercial Batteries**
- **Day and Night Switchable**
- **Class I Eyesafe Laser**

Mark VIII

Lightweight Handheld Target Locator

System Specifications



General

- Size: 11 x 9 x 5 inches
- Weight: 5.5 lbs with battery
- Operating Temperature:
-30° C to +60° C
- Storage Temperature:
-40° C to +71° C

Eyesafe Laser Transmitter

- Type: Nd:YAG with KTP OPO Converter
- Wavelength: 1.57 microns
- Pulse Rate: 4 per minute
- Minimum Range: 100 meters
- Maximum Range: 19,997 meters
- Range Increments: 2 and 3 meters
- Accuracy: +/- 3 meters
- Range Computation: Selectable First/Last and Multiple Target Counter

Night Sighting Optics

- Type: Uncooled Thermal - Microbolometer
- Thermal Electronic Zoom
- Field of View: 8.3 x 11.1 degrees (145 x 194 mils)
- Reticle: Projected, Open Center Crosshair with Laser Aiming Box



Day Sighting Optics

- Magnification: 8 x 42
- Direct View Optics: 8.2X
- Field of View: 5 x 7 degrees (88 x 122 mils)
- Reticle: Etched reticle with electronic laser aiming box

Electronic Compass

- Type: Digital Magnetic
- Accuracy: +/- 8 mil

Electronic Inclinometer

- Type: Gravity Sensor
- Accuracy: 4 mil

Data Display

- Type: Projected Electronic GUI. Range, Azimuth, Elevation, Target and Self Location, BIT, and System Messages

Data Interface

- Type: RS-232/422, PLGR and DAGR, FED and NEMA (subject to availability)

Prime Power

- Commercial Batteries: 9, CR123
- External Power: BA5590

Specifications and features are subject to change without notice

Northrop Grumman Corporation
Laser Systems
2787 South Orange Blossom Trail
Apopka, Florida 32703 USA
Phone: (321) 354-3000
e-mail: laser-systems@ngc.com
Web Site: www.northropgrumman.com
www.dsd.es.northropgrumman.com

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