

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN



VENOM

*Targeting Pod on the Ground
for Precision Engagement*

Protection

Venom is a remote-controlled laser designator rangefinder telescoping mast system with an automatic tracking device that enables warfighters to designate moving and stationary targets while on the move from the safety of an armored vehicle. The vehicle-mounted targeting system uses a Lightweight Laser Designator Rangefinder 2 (LLDR 2), an enhancement to a program of record that has fielded 2,700 systems. Venom supports the LLDR 2 on a universal, stabilized and gimballed mount that is transferable to all vehicles. The quick dismount, modular design of the Venom system allows the warfighter to easily disconnect the LLDR 2 for man-portable operations.

Modern Targeting

The Venom system incorporates the LLDR 2 target observation, location and designation system used by the U.S. Army for delivery of precision-guided munitions.

Battle Tested

Venom's LLDR 2 is battle-tested and has been used effectively in Operation Enduring Freedom and Operation Iraqi Freedom in support of the global war on terrorism. The LLDR 2 can be used to provide target designation for delivery of precision-guided munitions from manned aircraft, unmanned aerial vehicles and ground weapon stations.

Technological Advances

Advances incorporated into the Venom include a computer-driven system processor, a graphical user interface that reduces operator workload, interconnectivity via the Army's sensor link protocol, an eyesafe laser rangefinder and a thermal imager for night operations.

Features

- Warfighter targeting while protected in armored vehicles
- Remote-control laser designator/rangefinder with telescoping mast and stabilized gimballed mount
- Moving target tracking
- Target tracking while on the move
- Windows-based operator interface
- Integral INS for precision target location (CAT-1 capable)
- Day / Night / Adverse Weather Target Acquisition
- Precision Target Location
- Designates Stationary or Moving Targets at Extended Ranges
- Digital Interconnectivity
- Modular

LLDR 2 Technical Specifications

- Weight: 35 lbs (16 kg)
- Operating Temperature: -37° C (-35° F) to +49° C (120° F)
- Configuration:
 - Target Locator Module
 - Diode-pumped Laser Designator Module

Target Locator Module (TLM)

- Size: 9.6 x 16.9 x 5.5 inches (24.4 x 42.9 x 14.0 centimeters)
- Weight: 12.8 lbs. (5.8 kg)

Diode-pumped Laser

Designator Module (DLDM)

- Size: 9.4 x 9.6 x 6.5 inches (23.7 x 23.9 x 16.5 centimeters)
- Weight: 6.0 lbs. (2.7 kg)
- Type: Nd: YAG
- Range: In excess of 5 km (3.1 mi)
- Codes: All

GPS Receiver

- Type: GB-Gram SAASM
- Accuracy: <3m SEP (PPS)

Thermal Sight

- Type: 640 x 480 InSb staring focal plane array
- Cooling: Closed cycle Stirling
- Waveband: 3-5 μ m with laser spot viewing
- Field of View:
 - Wide: 8.2 x 6.6 degrees
 - Narrow: 3.5 x 2.8 degrees
 - E-Zoom: 0.9 x 0.7 degrees

Day Sight

- Type: High resolution staring CCD
- Field of View:
 - Wide: 4.5 x 3.8 degrees
 - Narrow: 1.2 x 1.0 degrees
 - E-Zoom: 0.6 x 0.5 degrees

Eyesafe Laser Rangefinder

- Type: Nd: YAG with KTP OPO converter
- Eyesafety: Class I
- Pulse Rate: Single shot or 1 Hz continuous
- Range: 100 to 19,995 m (5 m increments)
- Accuracy: 3 m

Venom with LLDR Technical Specifications

Azimuth Measurement

- Type: INU Gyro
- Accuracy: 1 mil

Elevation Angle Measurement

- Type: Pendulum electronic inclinometer
- Accuracy: 7.5 mils (1 sigma)

System Processing/Interface

- System Operation: Menu-driven software
- Display: Monocular high resolution flat panel display
- Data Interface: RS-485 / RS-232 compliant to Joint Technical Architecture
- Video Interface: RS-170 (Stat/Export)

Power

- Primary: Vehicle 24V



For more information, please contact:

Northrop Grumman Corporation
Electronic Systems Sector and
Laser Systems
2787 South Orange Blossom Trail
Apopka, Florida 32703 USA
Email: laser-systems@ngc.com

www.northropgrumman.com

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