

ELOP Long View CR-D (LVCR-D)

Advanced Innovative Solution for Long Range
Reconnaissance & Designation



Day/night long range Multi-Function Reconnaissance & targeting system coupled with advanced long range designation solution

An advanced day/night long range multi-function reconnaissance and target acquisition system coupled with high performance laser designator busted with Spot On Target (SOT) innovation technology, design for portable and dismounted operation.

LVCR-D offers a new solution for:

- Long range high quality reconnaissance and scouting intelligence Long range marking / designation with Spot On Target (SOT) verification capability
- Optimization of laser spot size according to target range
- "In field" TI to LD bore-sighting mechanism

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Advantages

- Reduces sensor-shooter loop time
- Provides precise target designation
- Reduces dramatically the possibility of collateral damage due to SOT verification capability
- Design for portable and dismounted operation

Operation by:

- Infantry Brigade Combat Team (IBCT)
- Fire Support Team (FST)

Main Features

Long Range Reconnaissance & Observation Channels

- Thermal Imager: 6" cont. zoom 0.75° to 12.5° (X16)
- Day CCD: Color cont. zoom 1.8° to -29° (X16)
0.4° Monochrome

Target Acquisition Up To 30 km

- Integral DMC & GPS Receiver
- Eye-safe LRF: Wavelength 1.54µm, Class 1

Additional Capabilities:

- Video recording capability > 7 hours
- Integral target data bank
- Interface to C4I applications

Power Source 8 Hour with rechargeable Std.
Lithium battery 24VDC external

Long Range Designation:

- Laser Type: A-Thermal diode pumped laser designator
- Energy / Wavelength: 70-100mj @ 1064nm
- Repetition rate: NATO STANAG 3733 Band I, II
- Laser Range-finder: 250m to 30,000m ± 5m
First / Last / Range gate

Unique Advanced Capabilities

- Variable divergence 150µRad to 650µRad
- In-Field" Bore-sight Laser to FLIR
- SPOT on TARGET (SoT) Verification: Energy Spillover Detection and Correction

Applications

Dismounted

- Tripod mounted, Remote or manual operation
- Fully autonomous operation including battery power

Light Reconnaissance Vehicle

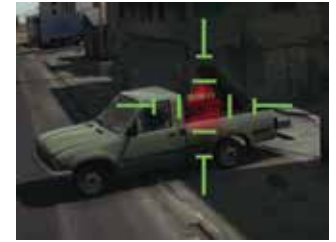
- Remotely Controlled
- Manual Controlled



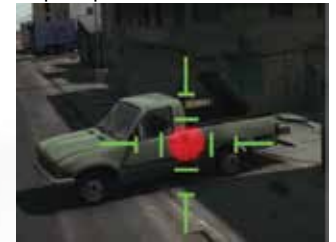
SPOT on TARGET (SoT) Verification



Step 1: Spillover Detection

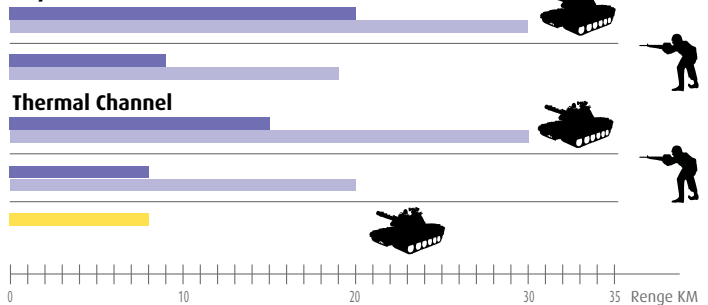


Step 2: Spillover Correction



Range Performance

Day Channel



Thermal Channel

- Recognition
- Detection
- Designation



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