

TALON[®] LD

HIGH-PERFORMANCE SEVEN PAYLOAD
LASER DESIGNATION SYSTEM IN A COMPACT,
LIGHTWEIGHT 9" PACKAGE



APPLICATIONS

SURVEILLANCE
RECONNAISSANCE
TARGET ACQUISITION & TRACKING
FORCE PROTECTION
SEARCH AND RESCUE (SAR)
PURSUIT AND PATROL
DRUG INTERDICTION
MINE DETECTION
ENVIRONMENTAL MONITORING

FEATURES

Compact, multi-sensor system

State-of-the-art imaging

RSTA + Laser Designator

Electron Multiplication CCD

Embedded IMU and Tactical LRF

Laser Illuminator/Pointer

Multi-target tracker

Advanced fiber optic gyro stabilization

Digital Video Interface

Military hardened and qualified

BENEFITS

Up to seven SIMULTANEOUS payloads in a 9.0 inch package: IR, Color CCD, EMCCD, Laser Designator, Laser Illuminator/Pointer, LRF, IMU

Continuous zoom 640 x 480 infrared camera and dual EO sensors (color and EMCCD) deliver high-resolution imagery day or night

High power, long range capability based on proven, fielded technology. Supports both US and NATO munitions coding. Supports precision targeting in conjunction with advanced stabilization, beam quality and boresighting techniques

Provides "see spot" capability during laser designation for visual confirmation of energy on specified target. Extreme low light capability in sub-quarter moon conditions. Works in ZERO ambient light conditions in conjunction with laser illuminator

Supports high accuracy range to target, target geo-location and Geo-Lock™ capability

Used as an illuminator, augments EMCCD performance in low light conditions. Laser also identifies targets for observers using NV devices while remaining invisible to others.

Advanced capability that tracks targets or scenes with all imagers (IR, color, EMCCD)

Outstanding gimbal stability maximizes EO and IR sensor range performance as well as laser designation range/energy on target

TALON outputs SMPTE 292M and DVI digital video for all channels, maximizing resolution and range performance

TALON configurations delivered to multiple military programs. Proven quality, reliability and performance in the most demanding military environments



High resolution thermal imagery



High fidelity digital daylight/low light TV



TALON® LD

THERMAL IMAGER

Detector type	Indium Antimonide Focal Plane Array (MWIR)
Zoom ratio	Continuous zoom; 36x overall
Image resolution	640 h x 480 v

DAYLIGHT/COLOR CCD TV

Performance	Long range using FLIR-designed optics with maximized focal lengths
Zoom	10x continuous

ELECTRON MULTIPLICATION LOW LIGHT TV (EMCCD TV)

Performance	Long range, extreme low light capability
Zoom	20x continuous

LASER DESIGNATOR

Laser type	Nd: YAG 1.06 µm
Coding	Compatible with US and NATO standards

EYESAFE LASER RANGEFINDER

Laser type	Class 1 (eyesafe)
Max. range	20 km

COMBINATION LASER ILLUMINATOR/POINTER

Nominal wavelength	830 nm
Power	1.9 W nominal
Classification	Class 4 (per ANSI Z136.1-2000)

MECHANICAL/ELECTRICAL

System weight	~50 lbs (~22.7 kg)
Turret FLIR Unit (TFU)	9.0" d (22.9 cm), 360° AZ, 360° EL Continuous
Control Electronics Unit (CEU)	Approx. 11.0" l x 10.0" w x 5.0" h (28.0 x 25.0 x 13.0 cm)
Interfaces	Mil-Std 1553, ARINC 429, RS-232, RS-422, Analog (RS-170) and Digital Video Output (SMPTE 292M and DVI)
Power	18-32 VDC

ENVIRONMENTAL

Standards	MIL-STD-810 & MIL-STD-461
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ERGONOMIC, RUGGEDIZED CONTROL UNIT OPTIONS

NVIS compatible
Fully sealed design



GEOLOCK™

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Extraordinary Vision