














 trillium

HD55-MVS-LD

**HIGH-PERFORMANCE 6.5-INCH STABILIZED EO/MWIR/SWIR
CAMERA SYSTEM WITH LASER TARGET DESIGNATOR FOR
SMALL UNMANNED VEHICLES**

-  **LASER TARGET DESIGNATOR**
55mJ STANAG compliant coded laser
-  **DIRECT DRIVE ARCHITECTURE**
Best-in-class robustness and stability
-  **EMBEDDED VIDEO PROCESSING**
Electronic stabilization and scene tracking
-  **ONBOARD GPS/INS**
Accurate real-time vehicle and target location
-  **VISIBLE AND THERMAL CAMERAS**
Day and day/night operations with a single payload
-  **LASER RANGE FINDER**
3000 NATO Standard available
-  **720P HD DIGITAL VIDEO**
Fully digital, h.264/h.265-compliant video pipeline
-  **ENVIRONMENTALLY SEALED**
Highly resistant to dust and water
-  **NVG-COMPATIBLE LASER POINTER**
850nm laser for precise discreet pointing available
-  **ETHERNET INTERFACE**
Video and gimbal control over ethernet or RS-232
-  **METADATA**
Target location, gimbal health, and more

SOFTWARE

FEATURES

- Onboard h.264/h.265 compression with adjustable bitrate
- MISB-compliant output including embedded KLV metadata
- Dynamic or static IP addressing
- Field upgradeable software
- Onboard electronic stabilization
- Onboard scene tracking

GPS/INS

- IMU co-located with cameras
- 0.5° (typical) total system accuracy available
- Real time geointing and geolocation
- Attitude, velocity and position computed at 200Hz
- Onboard GPS receiver
- GPS and heading accepted over serial or Ethernet
- Dual GPS heading support

MECHANICAL

SPECS

- Machined magnesium housing
- Glass and Germanium windows
- Direct drive brushless motors
- 0.02° encoder resolution
- 60Hz closed loop stabilization bandwidth
- 50µRAD - 150µRAD RMS jitter

ELECTRICAL

- Control over Ethernet or serial
- Ethernet and analog video
- Gimbal Only: 53W average, 105W peak power consumption
- While Lasing: 95W average, 165W peak power consumption
- 24VDC regulated input, external regulation accepting 10V to 30V
- Interface connector: 37 pin Nano Bi-Lobe connector conforming to MIL-DTL-32139
- GPS connector: MMCX
- Analog video connector: MMCX
- GPS antenna: 3.3V active, L1 band



HD55-MVS-LD

CAMERA CONFIGURATIONS

CONFIGURATION	WEIGHT	CAMERAS	FOV
HD55-MVS-LD	2700g	Visible Rolling Shutter 3X MWIR with 10X continuous zoom lens SWIR Camera for LTD See Spot	13.7°–4.6° 21.7° - 2.2°

LASERS

LASER TARGET DESIGNATOR

- 50mJ/pulse power
- 625µRAD divergence
- Supports PRF codes
- STANAG 3733 compliant
- Class IV, 1064nm laser

LASER RANGE FINDER

- 1550nm laser
- Class I, eye safe
- 3km max range

LASER POINTER

- 830nm laser
- Class IIIB
- 1µRAD divergence
- 50mW optical power

