













HD25

FEATURE RICH 2.5-INCH CLASS STABILIZED EO/IR CAMERA SYSTEM FOR SMALL UNMANNED VEHICLES

-  **MISSION PROVEN**
TRL 9 for military and commercial applications
-  **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
-  **ITAR FREE**
Non-controlled configurations available
-  **720P HD DIGITAL VIDEO**
Fully digital, h.264-compliant video pipeline
-  **ENVIRONMENTALLY SEALED**
Highly resistant to dust and water
-  **VISIBLE AND THERMAL CAMERAS**
Day and day/night operations with a single payload
-  **ETHERNET INTERFACE**
Video and gimbal control over ethernet or RS-232
-  **METADATA**
Target location, gimbal health, and more

SOFTWARE

FEATURES

- Onboard h.264 compression with adjustable bitrate
- Dynamic or static IP addressing
- Field upgradable software
- Onboard electronic stabilization
- Onboard scene tracking
- MISB-compliant output including embedded KLV metadata
- Optional target tracking with external module

GPS/INS

- IMU co-located with cameras
- 1.5° (typical) total system accuracy
- 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

ELECTRICAL

- Control over Ethernet or serial
- Ethernet and analog video
- 10W average, 75W peak power consumption
- 24VDC regulated input, external regulation accepting 10V to 30V available

- 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

MECHANICAL

SPECS

- Machined magnesium housing
- Glass and Germanium windows
- Direct drive brushless motors
- 0.02° encoder resolution
- 60Hz closed loop stabilization bandwidth
- 200μRAD - 400μRAD RMS jitter



HD25-XV

CAMERA CONFIGURATIONS

CONFIGURATION	WEIGHT	CAMERAS	FOV
HD25-XV	340g	Visible Rolling Shutter 3X	13.7°–4.6°
HD25-LV	360g	Visible Rolling Shutter 3X LWIR 640 with 18mm lens	13.7°–4.6° 24.1°