



HD80-AIM

**SPECIFICALLY DESIGNED FOR MAIRTIME APPLICATIONS WITH
WIDE AREA SURVILANCE CAPABILITY AND INTEGRATION
WITH AIS RECIEVERS**



MISSION DELIVERED

TRL 8 for military and commercial applications



DIRECT DRIVE ARCHITECTURE

Best-in-class robustness and stability



EMBEDDED VIDEO PROCESSING

Electronic stabilization, scene and target tracking



ONBOARD GPS/INS

Accurate real-time vehicle and target location



VISIBLE AND THERMAL CAMERAS

Day and day/night operations with a single payload



ONBOARD MARTIME AI

Artificial Intellgance for Wide Aarea Boat Detection



1080P HD DIGITAL VIDEO

Fully digital, h.265-compliant video pipeline



ENVIRONMENTALLY SEALED

Highly resistant to dust and water



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
- Dynamic or static IP addressing
- 2x digital zoom
- Field upgradable software
- Onboard electronic stabilization
- Onboard scene and target tracking
- MISB-compliant output including embedded KLV metadata
- AI Mairtime Boat Detectio. Speed boat 10m at 2.0 Nautical Miles. Vessel 30m at 10.0 Nautical Miles.

GPS/INS

- IMU co-located with cameras
- 0.5° (typical) total system accuracy
- Real time geointing and geolocation
- Attitude, velocity and position computed at 200Hz
- Onboard L1/L2 GPS receiver with support for GPS, GLONASS, Galileo and BeiDou
- GPS and heading accepted over serial or Ethernet
- Optional dual GPS heading support

MECHANICAL

SPECS

- 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
- 25W average, 100W peak power consumption
- Interface connector: 51 pin micro-D connector conforming to MIL-DTL-83513
- 10V to 30V input voltage
- GPS connector: SMA
- GPS antenna: 3.3V active, L1/L2 band



HD80-AIM

CAMERA CONFIGURATIONS

CONFIGURATION	WEIGHT	CAMERAS	FOV
HD80-AIM	5.37kg	Visible 1080p Global Shutter 36X MWIR 640 with 10X continuous zoom lens NIR 1080p Global Shutter	57.8-1.8° 21.7-2.2° 4.5°