

Alticam Vision™ Corporation

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Medium Wave Infrared (MWIR)

High Sensitivity Medium Wave Thermal Imagery

Overview

Designed for UAVs and Other Moving Platforms

Alticam™ Imaging Systems eliminate the vibration and motion common to lightweight UAVs. These turrets also perform well when integrated into piloted aircraft, boats, balloons and other unsteady, moving vehicles. Payload is made insensitive to platform motion.

Provides persistent video surveillance of a target over a long period of time. Common uses include:

- Insitu ScanEagle™ Unmanned Aerial Vehicle
- Other UAV & piloted aircraft & Unmanned Surface Vehicles – USV.
- Continuous Operation – no practical limit to maximum operational time
- Readily adapts to Air, Sea and Land carrying platforms.



Nose section used on the ScanEagle™ UAV to enclose Alticam Vision™ turret.

Specifications

Fits inside custom ScanEagle™ UAV nose fairing
Weight / enclosure & turret : 7.5 pounds / 3,400 grams

Operating
Mil-spec MIL STD 810-F
Operating Temperature: -32°C to 55°C / -26°F to 131°F

Stabilization & Mounting System

Two Axis Gyro-Stabilized
Precision Inner 2-Axis Vernier Stage
Proprietary Vibration & Movement Stabilization System
Mounting Footprint: To ScanEagle™ UAV forward bulkhead

Camera Operation

User Interface Windows PC with USB joystick
Zoom 13x Optical, 4x Digital
Wireless Control and Image Transmission

125° Tilt Range
360° Continuous Roll Range without ScanEagle™ nose
12 – 14.5 volt with option to go to 30 volt

Geo-referencing and Geo-pointing from aircraft INS or Athena micro-guidestar

Infrared Camera Specifications

F 3.5 Lens
Sensor type 640 x 480 MCT
Wide FOV 17 mm 25.5° h
Narrow FOV 220 mm 2.0° h
E-zoom 2x, 4x
Spectral band 3-5 μm
Features Auto focus, AGC, Local Area Processing - LAP
Manual Focus

Options

User Interface

- Joystick
- Video
- Dejitter
- Tracking

Video Transmission

- Wireless
- LAN
- USB

Athena™ Micro-Guidestar

Geo-Referencing and Geo-Pointing



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