

Alticam Vision™ Corporation 25 November 2009

Long Wave Infrared (LWIR)

High Resolution Long Wave Thermal Imaging

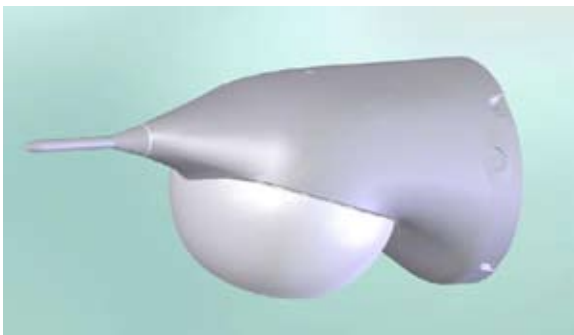
Overview

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.



Insitu™ ScanEagle UAV
Carrying an AltCam Vision™ Turret
Photo courtesy Boeing

Specifications

Fits Inside Sphere: 7 inch diameter / 18 cm

Weight: 2.8 pounds / 1,271grams

Storage Temp: -20°C to +70°C

Operating Temp: -20°C to +49°C

Horizontal Field of View: approx 15°

Articulation endless pan, tilt up 30° and 90° down

Slew Rate > 60° per sec

Power 11V - 16V DC, 8W

Two Axis Gyro -Stabilized

Precision Inner 2-Axis Vernier Stage

Proprietary Vibration & Movement Stabilization
System

Mounting Footprint: To ScanEagle™ UAV 2004
Interface

Communications RS -232 data

Disturbance Rejection at 0.5 Hz = 30 –40 dB

Pointing Resolution: .05°

The Alticam Vision™ long wave infrared imager provides excellent picture quality and high zoom capability. It combines exceptional long wave infrared imaging and economy. Provides day or night surveillance capabilities with uncooled microbolometer technology.

15° FOV

3x Digital Zoom

Compact, rugged design

Low power requirement

Detector Type: Uncooled VOx Microbolometer

Detector Pitch: 25.4 μm

Spectral Response: 8-2 μm

Temperature Stabilization: None Required

Format - NTSC

Gain/Level Control Automatic

Image Polarity White/Black selectable

Options

User Interface

- Joystick
- Video
- Dejitter
- Tracking

Video Transmission

- Wireless
- LAN
- USB

Athena™ Micro - Guidestar

Geo -Referencing and Geo-Pointing

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