

Alticam Vision™ Corporation 25 November 2009

## Medium Wave Infrared (MWIR)

**High Sensitivity Medium Wave Thermal Imagery with Excellent Low Light Vision**

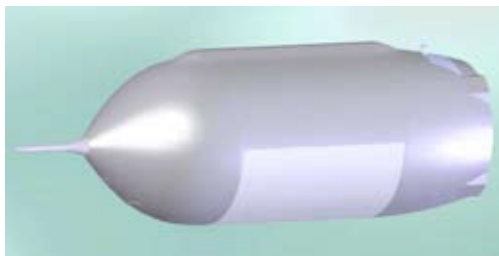
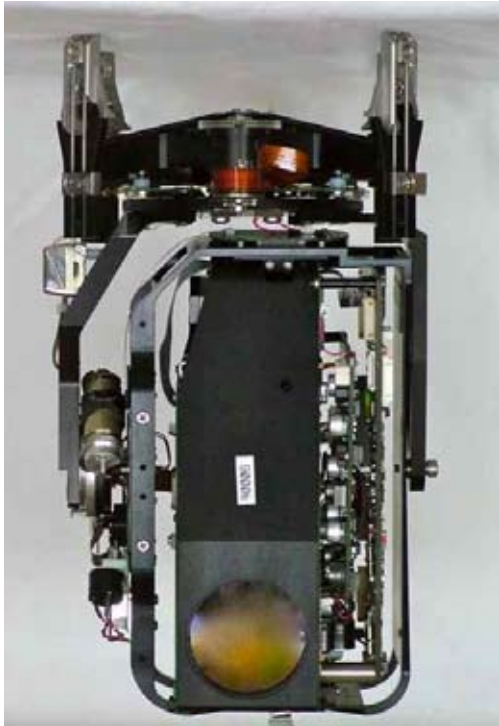
### Overview

#### Designed for UAVs and Other Moving Platforms

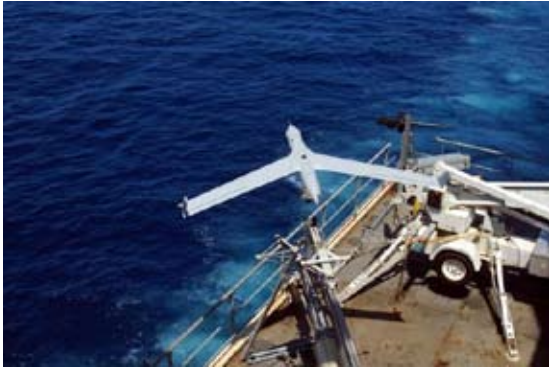
Alticam™ Imaging Systems eliminate the vibration and motion common to lightweight UAVs. These turrets also perform well when integrated into piloted aircraft, boats, balloons and other unsteady, moving vehicles. Payload is made insensitive to platform motion.

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 Alticam Vision™ Turret  
Launched from a Ship.  
Photo courtesy Boeing

## Specifications

Fits inside custom ScanEagle™ UAV nose fairing  
Weight: 6 pounds / 3000 grams

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

## 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  
4 Optical, 4 Digital  
Wireless Control and Image Transmission

60° 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

Sensor type 640 x 480 InSb  
Wide FOV 55 mm 10.0° h  
Narrow FOV 220 mm 2.5° h  
E-zoom 2x, 4x  
Spectral band 3 -5 μm  
Features Auto focus, AGC, Digital Detail Enhancement (DDE)  
Manual Focus

## Options

### User Interface

- Joystick
- Video
- Dejitter
- Tracking

### Video Transmission

- Wireless
- LAN
- USB

### Athena™ Micro - Guidestar

### Geo -Referencing and Geo-Pointing

This document, as well as the equipment and software described in it, may be used only in accordance with the terms set forth by the specific usage agreement between Altacam Vision™ Corporation and the user.

The content of this document is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by Altacam Vision™ Corporation. Altacam Vision™ Corporation assumes no responsibility or liability for any errors or inaccuracies that may appear in this document.

This material may not be transferred either in their original form or after being incorporated into other end items, without written approval of Altacam Vision™ Corporation.

THE FOLLOWING ARE TRADEMARKS OF ALTICAM VISION™ CORPORATION:  
ALTICAM™, ALTICAM VISION™ AND ALTICAM IMAGING SYSTEMS™

© ALTICAM VISION™ CORPORATION - ALL RIGHTS RESERVED



ALTICAM VISION™ CORPORATION  
3100 CASCADE AVENUE  
HOOD RIVER OR 97031

T: 541.387.2288  
F: 541.387.2266