

AltiCam 09 EO1



Features:

- High zoom EO daylight imaging
- Gyro-stabilized with coordinate hold mode
- Includes AVS Video Processing Board
- Picture-in-picture (PiP)
- Articulated nose enclosure
- Designed for small UAVs - also used on piloted planes, blimps, ground vehicles and unmanned surface vehicles



Specifications:

Gimbal	
Weight	2,775 g (3,470 g with nose enclosure)
Dimensions	30 cm length x 20 cm Ø cylinder
Gimbal Sequence	Roll-over-Tilt
Tilt	80° forward; 45° back
Roll	Endless 360°
Slew Rate	45°/sec
Performance @ 1 Hz and 2 Hz	39 dB and 38 dB attenuation
Power	13.2 VDC, 12 W Continuous, 20 W Peak
Communication	Serial communication, 57,600 bps, AltiCam command set

Imager	EO
Wavelength	400-900 nm
Horizontal Field-of-View (HFoV)	0.3°-48.7°
Zoom	170X (from two imagers)
Pixels	640 x 480
Video Output	Composite NTSC
Video Enhancement	Onboard de-jitter, tracking and enhancement from raw digital video from imagers

Background

The AltiCam 09 EO1 uses the increased volume of the AltiCam 09 MWIR2 nose to house improved EO performance. This is accomplished by pairing a Sony zoom imager with a high definition telescope. The result is a 6X reduction in horizontal field-of-view (HFOV) when compared to an AltiCam 07-EO1 turret. The images below demonstrate the clarity at different HFOVs and slant ranges:



48.7° HFOV at 7,600 ft



0.4° HFOV at 7,600 ft



0.3° HFOV at 1,000 ft