



Applications

ISR
Tracking
Aerial, Ground or Ship Based
Targeting

Capabilities

True Geo-Reference
High Definition Video
Multi-cast of live video with KLV metadata
Net Centric data streaming and control



Payload

E/O Sensor	460-900nm
Resolution	1920x1080i
HFOV x VFOV	52° x 29°
Zoom	10x Continuous Optical
Video Format	Component, MPEG TS w/ KLV

MWIR Sensor	3-5 μ m
Resolution	640x480
HFOV x VFOV	22° x 18°
Zoom	8x Continuous Optical
Video Format	RS170, MPEG TS w/ KLV

Laser Marker	830 nm
Power	100mW
Beam Divergence	< 0.3 milli-radian
Beam Diameter	8mm

System

Azimuth Coverage	360° Continuous
Elevation Coverage	+10° to -105°
Slew Speed	> 100° / sec
Data	IP over Ethernet, RS-232

Mechanical / Electrical

Size	6.4" x 11.6"
Weight	~9lbs (3.9kg) (plus electronics)
Power	~150W

Optical Alchemy Mission Statement

To be the best at delivering lightweight sensor payloads which provide superior threat warning and actionable intelligence to our armed forces to help them accomplish their missions with maximum effectiveness at the minimal possible human cost.