

# KJ-640 SD

Lightweight Inertially Stabilized Geo-Referenced Gimbal with SD Video



## Applications

ISR  
Tracking  
Aerial, Ground or Ship Based  
Bread-Crumbing  
Targeting

## Capabilities

True Geo-Reference  
Multi-cast of live video with KLV metadata  
Net Centric data streaming and control  
Multi-Target Tracking



## Payload

E/O Sensor	460-900nm
Resolution	768x494
HFOV x VFOV	48° x 26°
Zoom	26x Continuous Optical
Video Format	NTSC or PAL, MPEG TS w/ KLV

LWIR Sensor	8-12 $\mu$ m
Resolution	640x480
HFOV x VFOV	21° x 16°
Zoom	3x Electronic
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

## Mechanical / Electrical

Size	6.4" x 11.6"
Weight	9lbs (3.9kg) (plus electronics)
Power	~120W

## 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.