## **EYE-530 Advanced Coherent Technologies**

## Multi- & Hyperspectral Imaging System

The EYE-530 gimbal is designed for the simultaneous collection of hyperspectral shortwave infrared (SWIR) from 0.9  $\mu$ m to 1.7  $\mu$ m and visible/near-infrared multispectral imaging. This gimbal has the same linescan SWIR of the EYE-520 with one RGB CCD and one full-

resolution CCD for the near infrared. This gimbal provides the flexibility to perform over land and water, with the ability to use visible thru shortwave infrared spectral analysis.

### **Key Features**

- Tier 2 UAV capable small, lightweight, low power
- Fixed focus video camera
- ACT payload designed with standard Cloud Cap TASE400e<sup>®</sup> gimbal
- Cloud Cap ViewPoint® compatible
- Purchase with ACT PPM-100 for complete system with real-time target detection using Visible and/or SWIR spectral match filters









Low Contrast System		
Prosilica Cameras	Two synchronized, 12-bit CCD cameras with selectable filters and/or polarizers	
Spectral Region	VNIR, 400-850 nm	
Spectral Bands	Preconfigured bands depending on mission. Bandwidths range from 10 nm to >40 nm	
Image Size	1360 x 1024 pixels, 6.45 µm pixel size	
Spatial Resolution	Multiple lenses are available, ranging from 8-100 mm, delivering resolutions (GSD) from 19-2.2 inches from a 2000 foot altitude	
Field of View	Ranging from 5.5-50 degrees full angle depending on lens selection	
Frame Rate	Up to 3 frames per second (processing dependent)	

SWIR Spectrometer (Headwall)		
Spectral Range	900 to 1700 nm	
Focal Length	100 mm	
f/#	f/2.8	
Spatial FOV	6.15 deg	
Instantaneous FOV	0.2475 mrad	
Focal Plane	640 x 480 pixels, 25 µm pixel size FLIR Tau SWIR Imager	
Spatial Resolution	23 mm (9") in at 3000 ft.	
Field of View	10.7 nm, 75 possible bands	
Frame Rate	75 Hz	

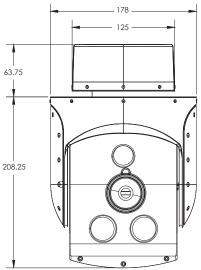
# Payload Specifications Size 178 x 190.25 x 272 mm Diameter 190.25 mm Weight 9 lb Power <100 watts (steady state) ~180 watts (peak)

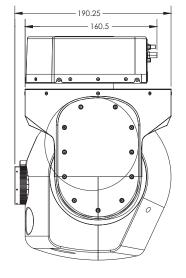
Video System	
Camera	Marshall Electronics V-1255
Data Format	NTSC Video - 30 Hz

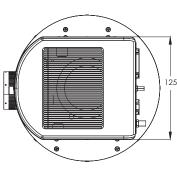
Payload Performance		
Slew Rate	150 deg/sec	
Payload Stabilzation	2-axis, <75 μRAD jitter	
Rotation Limit	360 deg continuous pan	











Measurements displayed in mm

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