



**OCTOPUS**

I S R S Y S T E M S

A DIVISION OF  
UAV FACTORY

# EPSILON 140Z

## 4 SENSOR GYRO STABILIZED GIMBAL

DATASHEET 1.0



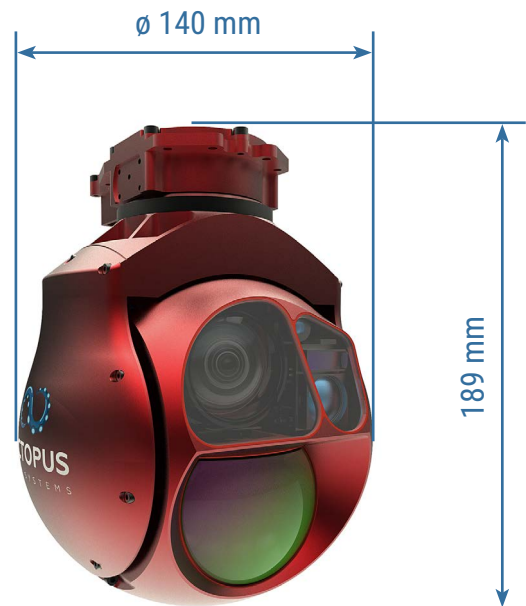
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System specifications	
Stabilization	<150 $\mu$ rad
Weight	1770 g
Size	Diameter - 140mm Height - 189mm
Environmental protection	IP64
Operating temperature	-25 to +50° C
Rotation limits	360° continuous pan -90° to +45° elevation
Slew rate	120 deg/sec
Power	40W peak, 20W typical
Input voltage	24 Volts
Video out	Digital H.264 encoded video
Control interface	RS 232, Ethernet



Onboard Image Processor Specifications	
Object tracking	Yes
Scene steering	Yes
Software stabilization	Yes
Software roll correction	Yes
HD Video output	720p HD output
Onboard Video Recording Snapshots	32 Gb onboard memory
H.264 encoding	Yes
Moving Target Indicator	Yes
Video Enhancement	Yes
Geo-Location Feature	Yes
Moving Map Software	Yes
Image Blending	Yes

Laser Rangefinder	
Class I (Eyesafe)	
Type	Diode laser
Range	Up to 5000m
Accuracy	Better than 1m

EO Sensor	
Sensor name	Hitachi DISC120R
Type	EO sensor
Global shutter	Yes
Vertical FOV	37.9°-1.3°
Resolution	HD 720p 1270x720px
Optical zoom	30x

IR Sensor	
Sensor name	Flir TAU2
Type	LWIR uncooled
IR lens	3.3x zoom lens 18 - 60mm
Vertical FOV	25.4° - 7.7°
Resolution	SD 640x480px
Frame rate	24 fps

Laser Illuminator	
class IIIb	
Wavelength	830nm
Power output	50mW

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