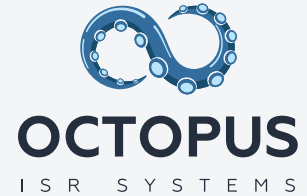


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**MULTI-MISSION EO/IR SURVEILLANCE SYSTEM**

# EPSILON 140LC

**SUPERIOR IMAGE STABILIZATION AND LONG-RANGE IMAGING**



## EPSILON 140LC MAIN FEATURES:

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### EXCEPTIONAL IMAGING PERFORMANCE

720p HD video at 30 fps with full processing



### IMPROVED LWIR PERFORMANCE

<30mK sensitivity sensor with 25mm F1.0 IR lens



### NON-ITAR

For maximum exportability



### ENVIRONMENTALLY PROTECTED

Fully sealed, dry gas filled structure



### DIRECT DRIVE STABILIZATION

Ruggedized brushless motors with specialized bearings



### MOST POWERFUL IN CLASS ONBOARD PROCESSOR

With Onboard Target tracking, Scene steering



### INTEGRATED HIGH PRECISION GPS/INS

Providing platform location, target location and slant range



### METADATA

MISB compliant video stream with KLV metadata



### RELIABLE OPERATION

Mature design proven in demanding environments



### ARTILLERY FIRE ADJUSTMENT

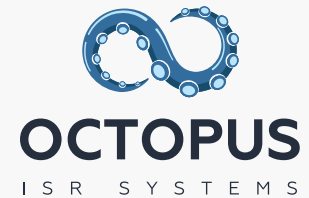
Integrated software for artillery fire correction



### SUPER RUGGED DESIGN

Advanced Magnesium structure (no 3D printed parts used)

# EPSILON 140LC



THERMAL IMAGER		
Sensor type	640 x 512, LWIR (uncooled)	
Wavelength	7.5 - 13.5 μm	
Sensitivity	<30mK and <60 mK versions	
FOVs	25° (h) x 18,9° (v)	
Zoom ratio	4x digital	
Lens	25 mm, F1.0	
COLOR ZOOM CAMERA		
Sensor type	Global shutter CMOS	
Resolution	1280x720px	
FOVs	62.9° - 2.2°(h) x 37.9° - 1.3° (v)	
Optical zoom	45x (for SD video quality)	
Digital zoom	4x	
INTERNAL NAVIGATION SYSTEM		
IMU and GPS	Fully integrated, tightly coupled for Geo Pointing and real time Target GEO location	
Accuracy	0.3° RMS heading / 0.1° RMS roll/pitch	
Navigation data computing frequency	400Hz	
System support	MGRS and decimal degree system support	
Additional Options	Moving Map Software	
SYSTEM PERFORMANCE		
System type	2 axis mechanical stabilization / 3 axis electronical stabilization	
Az. Coverage	360°	
El. Coverage	-80° to +10°	
Encoder resolution	0.01°	
Stabilization bandwidth	100 Hz	
Gyro noise	6 uRad	
Stabilization	<100 μrad RMS	
Motors	Direct drive	
SYSTEM INTERFACES		
Analog video	NTSC/PAL	
Digital Video	Ethernet	
Control	RS232 / Ethernet	
Interface connector	15 pin high density Dsub IP67	
GPS antenna connector	SMA	
ENVIRONMENTAL		
Rating	IP64 [sealed and dry gas filled structure]	
Operating temperature	-40°C to 55°C	
POWER REQUIREMENTS		
Voltage	22-26 VDC	
Consumption	17W typical / 75W peak	
DIMENSIONS, WEIGHT & MOUNTING		
Size	140 mm x 195 mm (5.5" x 7.7")	
Weight	1.27 kg (2.80 lbs)	
Mounting	Nose or belly mount compatible	
OTHER FEATURES		
• Automatic object tracking (onboard)	• Adjustable bitrate and resolution	
• Onboard video recording (32Gb)	• DHCP or static IP addressing	
• H.264 Internal Encoder	• Unicast and Multicast video stream	
• Picture-in-Picture dual video	• Field upgradable firmware	
• Electronic video enhancement	• Sky Up functionality	
IR SENSOR DRI ACCORDING TO JOHNSONS CRITERIA		
	Human target [1,7x0,5m]	NATO target [2,3x2,3m]
Detection	833m	1127m
Recognition	260m	352m
Identification	156m	211m



## IMPROVED LWIR PERFORMANCE



## MOVING MAP SOFTWARE



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