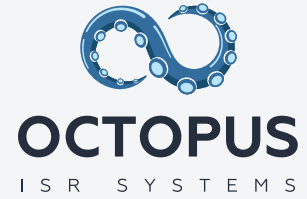


MULTI-MISSION EO/IR SURVEILLANCE SYSTEM

EPSILON 135

SUPERIOR IMAGE STABILIZATION AND LONG-RANGE IMAGING



EPSILON 135 MAIN FEATURES:



EXCEPTIONAL IMAGING PERFORMANCE

720p HD video at 30 fps with full processing



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 & Moving Target Indicator



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

Precision machined aluminium structure
(no 3D printed parts used)

EPSILON 135

COLOR ZOOM CAMERA	
Sensor type	Global shutter CMOS
Resolution	1280×720px
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	<250 µrad RMS
Motors	Direct drive
SYSTEM INTERFACES	
Analog video	NTSC/PAL
Digital Video	Ethernet
Control	RS232 / Ethernet
Interface connector	Axon Micro-D
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	8W typical / 15W peak
DIMENSIONS, WEIGHT & MOUNTING	
Size	135 mm x 175 mm (5.3" x 6.89")
Weight	1.22 kg (2.68 lbs)
Mounting	Belly mount compatible
OTHER FEATURES	
• Automatic object tracking (onboard)	• Adjustable bitrate and resolution
• Moving Target Indicator (onboard)	• DHCP or static IP addressing
• Onboard video recording (32Gb)	• Unicast and Multicast video stream
• H.264 Internal Encoder	• Field upgradable firmware
• Picture-in-Picture dual video	• Electronic video enhancement

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MOVING MAP SOFTWARE



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