MULTI-MISSION EO/IR SURVEILLANCE SYSTEM

Octopus E95

SUPERIOR IMAGE STABILIZATION AND LONG-RANGE IMAGING

OCTOPUS
ISR SYSTEMS
A division of Edge Autonomy

Octopus E95 main features:

EXCEPTIONAL IMAGING PERFORMANCE
1080p Full HD video at 30 fps with full processing

IMPROVED LWIR PERFORMANCE
<40mK sensitivity sensor with 35mm F1.1 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)

Octopus E95

THERMAL IMAGER 1	
Sensor type	640 x 512, LWIR (uncooled)
Wavelength	7.5 - 13.5 µm
Sensitivity	<40 mK
FOVs	31.8° (h) x 26° (v)
Zoom ratio	4x digital
Lens	35 mm, F1.1

THERMAL IMAGER 2	
Sensor type	640 x 512, LWIR (uncooled)
Wavelength	7.5 - 13.5 µm
Sensitivity	<40 mK
FOVs	12.5° (h) x 9.9° (v)
Zoom ratio	4x digital
Lens	14 mm, F1.0

COLOR ZOOM CAMERA 1	
Sensor type	CMOS
Resolution	1920×1080px
FOVs	59.9° - 7.1°(h) x 36.6° - 4.0° (v)
Optical zoom	20x (@1080p) / 45x (@480p)
Digital zoom	4x

COLOR ZOOM CAMERA 2	
Sensor type	CMOS
Resolution	1920x1080px
FOVs	3.36° (h) x 1.91° (v) w FHD (crop)
Digital zoom	4x

LASER POINTER	
Power	50mW
Wavelength	830nm
Classification	Class IIIb

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
Pan	360°
Tilt	-80° to +30°
Encoder resolution	0.01°
Stabilization bandwidth	100 Hz
Gyro noise	6 uRad
Motors	Direct drive

SYSTEM INTERFACES	
Digital Video	Ethernet
Control	RS232 / Ethernet
Interface connector	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	15W typical / 50W peak

DIMENSIONS, WEIGHT & MOUNTING	
Size	95 mm x 134 mm (3.8” x 5.3”)
Weight	570 g (1.25 lbs)
Mounting	Nose or belly mount compatible

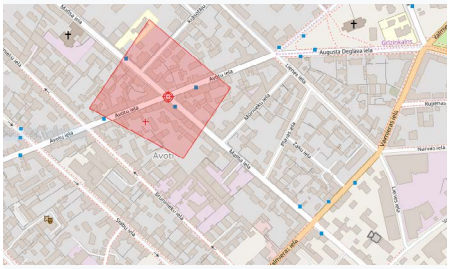
OTHER FEATURES	
• Automatic object tracking (onboard)	• Adjustable bitrate and resolution
• Onboard video recording (32Gb)	• DHCP or static IP addressing
• H.265 Internal Encoder	• Unicast and Multicast video stream
• Picture-in-Picture dual video	• Field upgradable firmware
• Electronic video enhancement	• Sky Up functionality

CAMERA	TARGET	DETECTION	RECOGNITION	IDENTIFICATION
EO1	Human	13100 m	3300 m	1900 m
	NATO	17100 m	4400 m	2500 m
EO2	Human	27500 m	6900 m	3900 m
	NATO	37300 m	9300 m	5300 m
IR	Human	1000 m	200 m	100 m
	NATO	1300 m	300 m	200 m
IR2	Human	2500 m	600 m	400 m
	NATO	3400 m	900 m	500 m

Equipment described here in is subject to export regulations and may require a license prior to export. Imagery for illustration purposes only. Specifications are subject to change without notice. @2023 Octopus ISR Systems. All rights reserved. 05/2023

OCTOPUS
ISR SYSTEMS
A division of Edge Autonomy

IMPROVED LWIR PERFORMANCE



MOVING MAP SOFTWARE

OCTOPUS ISR SYSTEMS

Europe
Jaunbridagi-1, Marupe, Latvia, LV-2167
Phone: +371-26321533
E-mail: sales@octopus-isr.com

North & South America
2411 Dulles Corner Park, Suite 450
Herndon, VA 20171, USA
Phone: +1 571-531-9660
E-mail: sales@octopus-isr.com

www.octopus-isr.com