XSIS 222A

XMobots® Stabilized Imaging System

Miniature 3-Axis Gimbal System for Intelligence Missions in RPAs

xmobots®

The Right Choice for ISTAR/SAR Missions

With three-axis gyrostabilization, XSIS is capable of long range, day and night observation with up to 1° of FOV in EO (SD Quality) and 2° in Cooled MWIR of optical zoom. Horizon is automatically leveled and stabilized.

State of the art onboard image processor enables accurate target tracking, MTI, digital stabilization, H.265 compression and MWIR color palettes.

Moving map software and onboard calculated target coordinates enable surveilance or search and rescue misison planning.

All digital 1-cable ethernet connection, open protocol.

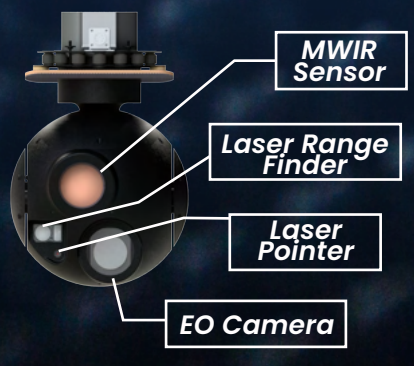
9.3Mi
Land Surveillance

6.2Mi
Vehicle Id. and Tracking

1.8Mi
Person Id. and Tracking

Main Specifications

- Under 6Kg
- 22cm/9" Profile
- No Look-Down Gimbal Lock
- Removable SD Card
- Roll Axis Horizon Leveling
- Target Tracking
- H.265 Compression
- MWIR Camera With Zoom (14x)
- EO Camera Resolution 1080p, 30x Zoom (360x Combined)
- Determinaton Of Target Geographic Coordinates
- Laser Range Finder And IR Laser Pointer
- Moving Map Software
- System Environmentally Sealed



System Specifications

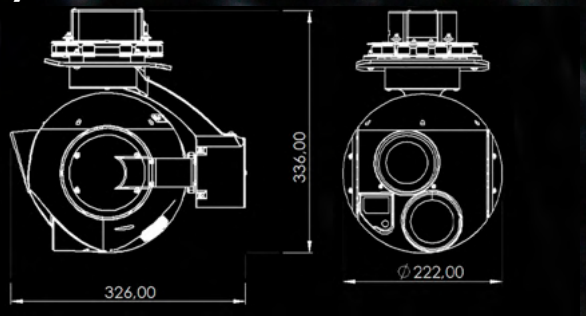
Stabilization	<85 µrad RMS, 3 axis
Motor Configuration	3 axis, direct drive, brushless
Gyro Sampling Rate	2460hz (Tactical Grade)
Gyro ARW	0.26°/ √hr
Encoder Resolution	0.00034°, Absolute
Weight	6.0kg
Mechanical Rotating Limits	Pan: 360° Continuous, Tilt: -90° to +10° Roll: -45° to +45°
Slew Rate	Up to 120°/s
Power	50W Typ. / 140W peak
Operating Voltage	24-26 VDC
Output Interface	8-pin, water-tight ruggedized connector. (MELRO)
Video interface	Digital Only (Ethernet)
Control	Ethernet

Video and Software Functions

Video Latency	< 300ms
Control and Metadata Latency	< 90ms
Video Compression	H.264, H.265. Up to 30Mbps

- Target/ Scene Tracking
- Digital Video Stabilization
- Target Geographic Coordinates Determination
- Data Telemetry (KLV Available)
- Unicast And Multicast Transmission
- Moving Map Software
- Removable SD Card, Command To Erase Data
- RPA Follow Mode
- Picture in Picture (PIP)

Physical Dimensions



Sensors Specifications

EO Camera

HFOV	63,7° - 2,3°. 1° SD Quality
Native Resolution	1920 x 1080 @ 30fps
Zoom	30x Optical. 360X Digital Comb.
Sensor type	1/2,8 - Exmor R CMOS

MWIR Camera

Sensor Spectral Range	3- 5 µm
HFOV	28,4° -2°
Native Resolution	640x512
Zoom	14X
Sensor Type	IDC InSb, Cooled
Lens	19 - 275 mm, f 5.5

Night Surveillance With MWIR Sensor

Moving Map SW and Mission Planning

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