

OWLS

ASU INC.
INNOVATION FOR A SAFER TOMORROW

MICROGIMBAL PAYLOAD FOR MANNED OPERATIONS

OWLS is an affordable surveillance system that incorporates a high performance Low Light Level (LLL) CMOS imager with an option to fuse a uncooled thermal camera. The environmentally ruggedized 4-inch gimbal is 2-axis stabilized and is ideal for platforms requiring a lightweight visible/infrared imaging capability featuring a continuous 360° azimuth field of regard.



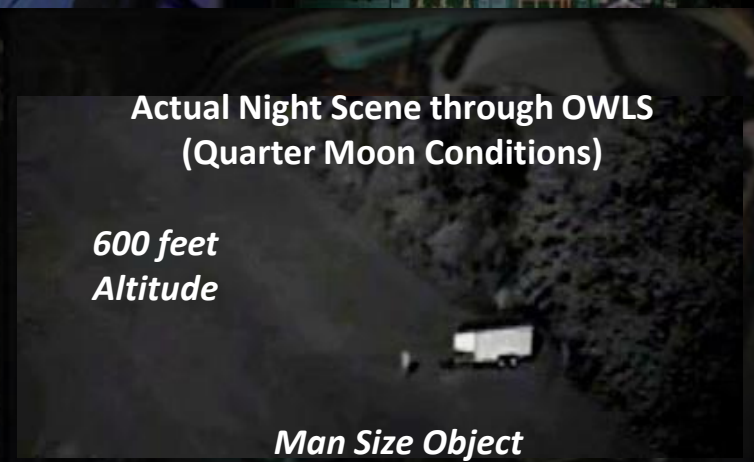
Parameter	Feature Value/Description
Elevation Range	+10° to -100°
Azimuth Range	360° continuous
Slew Rate	120°/sec
Stabilization (2 axis)	< 100 mrad
Diameter	4.5 inches
Weight	< 2 lbs.
Power Consumption	< 5 watts
Host Vehicle	Manned Aircraft with option for Unmanned Light UAV
Operating Temperature	- 20 °C to + 50 °C
Sensors	1280 x 1024 Color Low Light Level (LLL) CMOS Option to Fuse to 640x480 LWIR
Camera FOV	27.9° x 22.5°
Objective Optic	25mm EFL (f/1.5)
Control	RS-232
Video Out	HD 720 (HDSCI)
Connectors	(1) Video / Control and power



**Retractable
Microgimbal Payload**



**Control/Display
Unit for Manned
Applications**



**Actual Night Scene through OWLS
(Quarter Moon Conditions)**

*600 feet
Altitude*

Man Size Object