**Gimbal**

Owl a state-of-the-art payload for day/night surveillance applications for platforms like UAV, Drones, Helicopter etc. It includes a EO camera with Full HD video and 30X optical zoom along with high performance MWIR camera with 10x optical zoom to detail even a miniature object over super long range.

**Salient Features**

1. Fully ruggedized system to operate in adverse environmental conditions-JSS55555 & MIL STD. 461E/F.
2. Gimbal is fully sealed with dry gas ensuring visual availability at extreme climatic conditions.
3. Supports real time onboard tracking of multiple moving targets.
4. Supports real time artillery fire correction.
5. Supports Picture in Picture to have simultaneous view of both EO and MWIR video.
6. Supports real time onboard stabilization to have smooth video regardless of aircraft motion.
7. Supports geolocation and fly by gimbal.

**Key Specification**

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| --- | --- |
| Electro optical Sensor | Full HD |
| Optical Zoom for Electro Optical | 30x |
| Digital Zoom for Electro Optical | 10x |
| Thermal Sensor | MWIR 640x512p |
| Thermal Optical Zoom | 10x |
| Thermal Digital Zoom | 5x |
| Video Stabilization | <30µrad |
| Laser Range Finder | >20Km |

**Detailed Specifications**

**Onboard Tracking**

The Gimbal has cutting edge tracking technology for long-range real-time target monitoring and tracking for surveillance applications. It can track target and hold it around the centre of the screen for best viewing unaverred by aircraft trajectory.

**Video Stabilization**

The Gimbal features real time onboard video stabilization to deliver smooth jerk free video regardless of aircraft vibration during complete mission for exceptional video quality and real time target recognition and tracking.

**Picture in Picture**

Gimbal supports real time simultaneous visuals of both EO and MWIR sensors using picture in picture enabling operator to use both sensors for better recognition of targets with ammunition for law enforcement applications.

**Artillery Fire Correction**

Gimbal supports real time artillery fire correction feature to support ground missions.