



SWE-400 LE

PROVEN, COST-EFFECTIVE, HIGH PERFORMANCE 400mm MULTI SENSOR SURVEILLANCE SYSTEM

- High Resolution Thermal and TV Sensors
- Continuous Zoom for Optimal Situational Awareness
- Options for Geo-Reference and Video Tracking
- Interfaces for Moving Maps and Searchlights

GYRO STABILIZED GIMBAL

A fully digital 4-axis active gyro stabilization system compensates for aircraft movements and vibrations to provide stable imagery.

RELIABILITY AND LOW MASS

Gimbals are designed and manufactured using an aluminium structure combined with composite covers, to provide a reliable and lightweight solution.

ON-SCREEN GRAPHICS OPERATION

The operator is provided with comprehensive on-screen graphics information including camera look-angles, GPS coordinates, time and date etc.

ENVIRONMENTAL DESIGN

According to RTCA DO 160

IMU/INS FOR GEO-REFERENCE

Enabling accurate target geo-location and geo-hold.

NON-ITAR

Fully exportable in accordance with EU regulations



MULTI SENSOR SURVEILLANCE SYSTEM

The SWE-400 LE offers the largest capacity for sensor payloads in the SWE- range of gimbal systems. The 400mm fully digital 4-axis gyro-stabilized platform provides maximum flexibility for different sensor and lens combinations.

The SWE-400 LE can accommodate various payload options, including cooled thermal sensors, HD TV, digital still photo, colour spotter scope and lasers. Video target tracking, geo-location, and various laser rangefinders, illuminators and pointers are also available.



Additional Features

- Interface for remote control by third party devices
- Searchlight and Radar slaving interfaces.
- Accurate geo-location, geo-hold and distance measurements of objects
- Advanced video auto tracking for robust tracking of moving or stationary objects
- Compatible with augmented reality moving map systems for full situational awareness

GIMBAL SPECIFICATIONS

| | |
|--------------------|---|
| Type | Four Axis Active Gyro Stabilized Gimbal |
| Coverage Azimuth | 360° continuous |
| Coverage Elevation | +90° to -120° |
| Dimension | Ø 400 mm (15.7") |
| Weight | 30kg (66lb) |
| Power | 22-30VDC, 250W |

TV SENSOR

| | | |
|------------------|--------------------|----------------------|
| Option | HD | SD |
| Type | Full HD 1080p | PAL/NTSC |
| Image Sensor | 1/2.8" CMOS | Super HAD CCD (1/4") |
| Number of Pixels | ≈ 2,380,000 Pixels | ≈ 570,000 Pixels |
| Optical Zoom | 30x (60° to 2°) | 40x (60° to 1.6°) |
| Digital Zoom | Yes | Yes |

THERMAL IMAGER

| | |
|----------------|-------------------------------|
| Detector | Cooled MCT, focal plane array |
| Array Size | 640x512 pixels |
| Spectral Range | 3-5µm |
| Lens | Continuous zoom |
| Field of View | 39° to 1.8° (HFOV) |

| Object | Detection | Recognition | Identification |
|---------|-----------|-------------|----------------|
| Man | 9.7 km | 2.9 km | 1.55 km |
| Vehicle | 16.6 km | 6.4 km | 3.5 km |

ACCESSORIES

| | |
|------------------------|---|
| Standard Configuration | Turret Camera Unit, Hand Controller Unit, Interface Unit, Cables, GPS antenna |
| Other Options | Digital photo camera with continuous zoom lens. IMU/INS, Lasers, Video Tracker, SLASS/Moving Map Interface, Geo-Reference capabilities. |



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