



SWE-200 LE

Lightweight, Multi-Sensor Day & Night Imaging System.

Ideal for small aircraft, UAVs and vehicle installations.

4-AXIS GYRO STABILIZED GIMBAL

For stable, long range imaging, a fully digital 4-axis active gyro stabilization system compensates for platform maneuvering and eliminates external vibrations.

COMPACT AND LIGHTWEIGHT

The small size and low weight of the gimbal ensures minimal impact on the center-of-gravity, power draw, and mission endurance of the platform.

FLEXIBLE INSTALLATIONS

Trakka Systems works together with customers to provide flexible installation solutions to interface the gimbal to the aircraft, and fixed or mobile ground installations.

RELIABILITY – ENVIRONMENTAL DESIGN

In order to ensure reliability, the gimbal is designed according to RTCA DO 160 standards.

EXPORTABLE

Trakka camera systems are fully exportable in accordance with EU regulations.



TRAKKA SYSTEMS SWE-200 LE

The SWE-200 LE is a compact and lightweight dual-LRU multi-sensor surveillance system offering day and night mission capabilities. With a diameter of only 200mm, the SWE-200 LE provides a fully digital 4-axis gyro-stabilized platform making it the ideal choice for installation on aircraft or rotorcraft or vehicles where size and weight are challenging factors. The SWE-200 LE can accommodate various payload options, including thermal imagers, HD TV cameras as well as a laser rangefinder. Video auto tracking, geo-location, and various remote interface options are available.



SWE-200 LE

- Compact and lightweight
- High Resolution Day and Night Capabilities
- Uncompromised 4-axis Stabilization
- Geo-location and tracking
- Digital interface to mission equipment
- Exportable
- Moving Target Detection (option)
- Object Tracking / Scene Tracking Modes (option)
- Image Blending (option)
- Picture in Picture / Split screen
- Graphical On-Screen Display for Intuitive Operation

PERFORMANCE SPECIFICATIONS

GIMBAL SYSTEM

Type	Four Axis Active Gyro Stabilized Gimbal
Coverage Az	360° continuous
Coverage El	+90° to -120°
Diameter	Ø 200 mm (7.8")
Weight	8kg (17.6 lbs)
Power	22-30VDC, 150W

DAYLIGHT SENSOR

Type	Full HD 720p
Image Sensor	1/4" CMOS
Number of Pixels	920K
Optical Zoom	12X (53.4° to 4.6°)
Digital Zoom	Yes

THERMAL IMAGER

Detector	Uncooled Microbolometer , 8-12µm
Array Size	640 x 480 Pixels
Optical Zoom	29° to 5.9°
Digital zoom	Yes
Focus	Manual and Single Shot auto

LASER RANGE FINDER

Wavelength	1550nm (Class 1, eyesafe)
Range	15 to 3,000 meters
Repetition Rate	2 Hz

LASER POINTER (OPTIONAL)

Wavelength	830nm (Class 3B)
Output Power	80mW

LASER ILLUMINATOR (OPTIONAL)

Wavelength	860nm (Class 3B)
Output Power	450mW

OPTIONS

Interface Types	SMPTE HD video outputs and H.264 over Ethernet (MISB 0601.7 Compliant), RS422, RS232
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Functional Interfaces & Features	Auto Tracking, Geo-Location with integrated IMU/INS, Interface to Aircraft INS/GPS, Metadata, Moving Maps & Augmented Reality, Remote Control, Search-light Slaving, MTI, Image Blending, Radar Slaving, Data Links & Video Downlinks
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