



HeviTrack-S SX

HeviTrack-S SX is a rugged long-range surveillance camera system with integrated high-speed 40x optical zoom lens.

The system allows for long range surveillance of various vital areas such as borders, harbors, maritime, airports and vital infrastructure facilities. The sensor module windows are optionally equipped with de-icing heaters and a cleaning system for extended operation in adverse weather conditions. In standard configuration, it provides a clear video feed from a Full HD sensor and when combined with optional laser rangefinder and dual antenna RTK, giving the system target geolocation feature, therefore allowing to maximize the usage of the system.

The onboard real-time video processor provides image enhancement of the sensor, image stabilization, scene steering and target tracking. Compact design and fully digital interface allows cost-effective integration for system installation on various use cases.

PLATFORMS

- Tripod based Observation- and checkpoint solutions
- Static mast based solutions

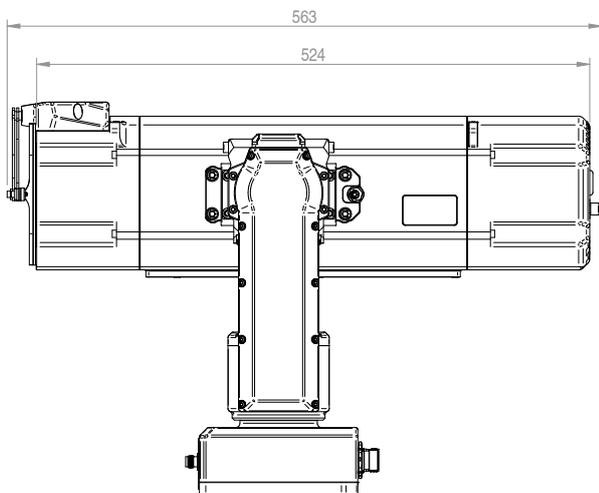
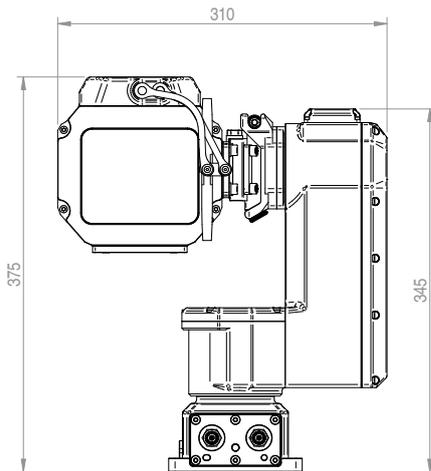
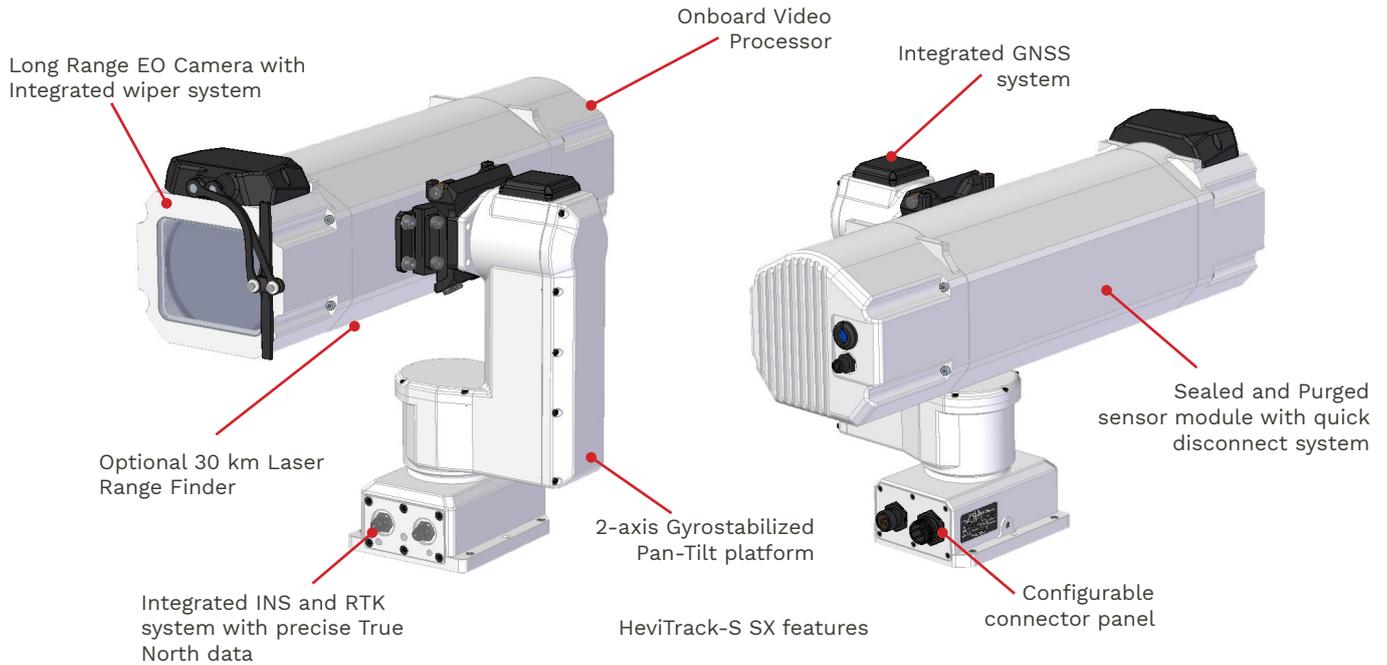
APPLICATIONS

- Traffic observation and analyzation (urban areas)
- Incident handling (mountainous terrain search & rescue)
- Environmental protection (industrial parks, pipelines, detection of forest fires)
- Targeting & Surveillance (suitable for precision munitions)
- Force Protection (airports, military installations, critical sites)

KEY FEATURES

- Real-time sensor control (realistic situational awareness to react in time)
- Flexibility for different mission types (quickly changeable sensor & system repositioning)
- 2-axis gyro-stabilization
High-performance image stabilization combined with 40x optical zoom
- Integrated Electronics and onboard video processor
- Fully networked ethernet architecture

HeviTrack-S SX Specifications



HeviTrack-S SX dimensions

GENERAL CHARACTERISTICS OF STABILIZED ASSEMBLY:

Azimuth Range	360° continuous rotation
Elevation Range	-45° to +45°
Stabilization	≤ 500 μrad
Slew rate	90°/sec or customized
Type	2-axis stabilized
Vibration Damping	Hard mounted, no damping used

EO VIS ZOOM CAMERA:

Spectral Response	430nm – 680nm 680nm – 920nm (NIR)
Sensor	FullHD 1920 x 1080 px
FOV	21° to 0.27° Stabilized Optical Zoom (SX1600) 21° to 0.55° Stabilized Optical Zoom (SX800)
Features	Visibility Enhancer, Defog, Noise Reduction, Image stabilization, Auto ICR, White Balance modes

LASER RANGE FINDER:

Wavelength	1550 nm
Safety Class	Class 1 (eye safety per IEC 60825-1)
Range	Maximum 30 km; 11 km for 2.3 x 2.3 m target size
Range accuracy (1 σ)	±1 m

ENVIRONMENTAL CONDITIONS: (Designed to be compatible)

Environmental	Sensor modules sealed to IP67 (Nitrogen purged) /MIL-STD-810H PTU sealed to IP65 or IP66
Electrical	MIL-STD-1275 DEF-STAN 61-5
Operating temperature	- 25° to +55°C

VIDEO PROCESSOR FEATURES:

Image stabilization	
Target / position tracking	
Image processing and enhancement	
Target geolocation	
AI features ready	

PHYSICAL AND ELECTRICAL CHARACTERISTICS

Mass	13 kg without LRF
Dimensions	375 H x 310 W x 563 L
Input Voltage	12-36 VDC
Power Consumption	75 W average; 300 W max
Control and Video Interface	Gigabit Ethernet

OTHER FEATURES:

Integrated Dual Antenna GNSS-Aided INS (Optional)	
Window cleaning system	
De-icing windows heating system	
Turn-Key solution available (Includes control grip and video monitor)	
Stationary surveillance mounts available (masts, tripods, rooftop solutions)	