CONTROP

SPEED-MR HD

Automatic Detection and Surveillance Systems

The SPEED-MR-HD is a robust, mid-range electro-optical system designed for continuous surveillance and target acquisition in both stationary and deployable missions.
It features HD thermal and day cameras, a SWIR sensor, and a laser rangefinder, delivering clear, high-quality imaging in all conditions.

With embedded edge AI, advanced tracking algorithms, and a **modular architecture** that allows fast component replacement, it ensures high performance with minimal downtime.

The system is platform-agnostic, easily integrating into a wide range of defense and security architectures. With thousands of operational hours worldwide, the SPEED-MR-HD is a proven, adaptable solution for critical surveillance operations.

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Electro-Mechanical

Field of Regard:	Elevation: -45° to +67° Azimuth: 360°×N continuous
Angular Velocity:	AZ=60°, EL=30° sec

HD Thermal Imaging (TI) Sensor

Sensor Type:	MWIR XBn HD
Spectral Range:	3-5 µm
Sensor / System Resolution:	1280 x 1024
450mm:	Continuous Optical Zoom Lens x22 Digital zoom X2 (Optional X4)
Field of View:	1.6° (NFOV) - 35° (WFOV)

Daylight Channel

Sensor Type:	1/2.8" High res. color CMOS
Lens:	Optical zoom X30, Digital zoom up to x4
Sensor Resolution:	1920 X 1080 HD
System Resolution:	1280 X 1024
System Field of View:	1.6° (NFOV) - 43° (WFOV)

SWIR Spotter

Sensor Type:	Staring Array InGAs, Digital
Spectral Range:	0.9-1.7 µm
Sensor Resolution:	640x512
System Resolution:	1280 X 1024
System Fields of view:	0.9° (600mm focal length)

Laser Rangefinder (optional)

Type:	Eyesafe, Class 1
Wavelength:	1.54 µm
Range:	Up to 20 Km

Physical Characteristics

Weight:	<40kg with sensors

Electrical Interface

Voltage:	220V AC / 28V DC
Power Consumption:	<500W

Environmental Conditions

Temperature:	-15° to 55° C (optional - 32° to + 60°)
Humidity:	Up to 95% (non-condensing)

- <40kg
- Radar
- GPS
- Control Unit
- Command & Control Systems

Features

- Target Acquisition
- Automatic Detection
- Multi-Spectral Imaging
- Advanced Image Processing
- Advanced Map Engine
- High Line of Sight (LOS) Stabilization

Optional

- Eyesafe Laser Range Finder (LRF)
- Control & Display Unit (CDU)
- Digital Video Recorder (DVR)
- GPS Compass
- Laser Pointer
- Panoramic Scanning

Image Processing

- Local and Global AGC
- Advanced Video Enhancement
- ATR- Auto Target Recognition (optional AI capabilities)
- VMD- Video Motion Detection
- Advanced ground, maritime & aerial target tracker
- ATIR- Anti Turbulence Image Recognition
- Pseudo Color TI