

SPEED-LR

Automatic Detection and Surveillance Systems



The SPEED-LR is a Land System designed to provide automatic detection, recognition and identification capabilities that were especially developed for diverse land environmental conditions.

The system has an HD Thermal Camera and a SWIR Camera. Major advantage of the SWIR imaging for military applications is the ability to see images through haze, fog and glass.

The SPEED-LR System provides maximum sensor range performance by using highly sensitive sensors and unique video enhancement algorithms.

Applications

- Border Surveillance
- Coastal Surveillance
- Perimeter Surveillance
- Protection of Sensitive Sites
- Force Protection

Technical info:

TI	FL	590mm
	KM	33km
SWIR	FL	1900mm
	KM	40km

FL Focal Length

KM Detection range to NATO target

CONTROP
Turning Vision Into Reality

SPEED-LR

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Features

Target Acquisition
Automatic Detection
Multi-Spectral Imaging
Advanced Image Processing

Optional

Eyesafe Laser Range Finder (LRF)
LI (Laser illumination)
Laser Pointer
Laser Designator
HD SWIR detector
Control & Display Unit (CDU)
Digital Video Recorder (DVR)

Image Processing

Local AGC
Video Enhancement
Automatic Target Tracker
Turbulence Effect Reduction
Panoramic View for Situational Awareness



Electro-Mechanical

Field of Regard: Elevation: -45° to +45°
Azimuth: 360°xN continuous
Angular Velocity: Up to 1 rad/sec (Az & El)
Angular Acceleration: Up to 1 rad/sec² (Az & El)

HD Thermal Imaging (TI) Sensor

Sensor Type: Staring array XBN, Digital
Spectral Range: 3.6 - 4.15 μm
FPA: 1280 x 1024 pixels, 10 μm pitch
Field of View: Continuous Optical Zoom Lens x25
Narrow FOV: 1.25° (590mm Focal Length)

Daylight Channel

Sensor Type: FHD (1920X1080) color CMOS
Lens: Zoom x30
Field of View: Widest 60° x 36° Narrowest 2° x 1.1°

SWIR Sensor

Sensor Type: Staring Array InGAs, Digital
Spectral Range: 0.9-1.7 μm
FPA: 640x512
Field of View: Continuous Optical Zoom Lens x4.75
Narrow for: 0.28° (1900 mm focal length)

Laser Rangefinder (optional)

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

Physical Characteristics

Payload Weight: 37kg
Gimbal Weight: 32kg

Electrical Interface

Voltage: 220 VAC or 48VDC
Power Consumption: 250 Watt (nominal)
Video Outputs: RTP / H.264

Environmental Conditions

Temperature: -15° to 55° C (optional -40°)
Humidity: Up to 95% (non-condensing)

CONTROP reserves the right to change specifications without prior notice