

SPEED-ER

Automatic Detection and Surveillance Systems



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

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

CONTROP's SPEED-ER System may be integrated with complimentary components in order to offer a full solution for defense and homeland security (HLS) operational requirements.

Applications

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



Technical info:

KG	90kg
FL	1400mm
KM	40km

FL Thermal Imaging Focal Length

KM Thermal Imaging detection range to NATO target

CONTROP
Turning Vision Into Reality

SPEED-ER

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Features

Automatic Detection
Superior Gyro-stabilized Image
Multi-Spectral Imaging
Advanced Image Processing
Integrated with complementary components

Optional

Eyesafe Laser Range Finder (LRF)
Control & Display Unit (CDU)
Digital Video Recorder (DVR)

Image Processing

Local AGC
Video Enhancement
Automatic Target Tracker



Electro-Mechanical

Type: 2 Gyro-stabilized (2 Axes)
Field of Regard: Horizontal: n x 360° (continuous)
-35° to +20° or -10° to +70°

Thermal Imaging (TI) Sensor

Sensor Type: 3rd generation, Staring Array, InSb, Digital
Spectral Range: 3.0 - 5.0 μm
FPA: 640x512
Lens: Continuous Optical Zoom Lens x30
Field of View: Horizontal Narrow 0.4°

SWIR Sensor

Sensor Type: Staring Array InGAs, Digital
Spectral Range: 0.9-1.7 μm
FPA: 640x512
Lens: Continuous Optical Zoom Lens x5
Horizontal NFOV: 0.22° (2500mm focal length)

WFOV Color Day TV Sensor

Resolution: 1920 x 1080 (768 x 576 effective pixels)
Horizontal FOV: 60° (WFOV) continuous to 1° (NFOV)

NFOV Color Day TV Sensor

Resolution: 1920x1440 (768 x 576 effective pixels)
Horizontal FOV: Dual FOV lens 0.8° and 0.2°

Laser Rangefinder (optional)

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

Laser Pointer

Wavelength: 0.8 μm

Physical Characteristics

TI LRU Weight: 31kg
Day LRU Weight: 18kg
Gimbal Weight: 35kg

Electrical Interface

Voltage: 220 VAC
Power Consumption: 500 Watt (max)
Video Outputs: GigE

Environmental Conditions

Temperature: -10° to 55° C
Humidity: Up to 95% (non-condensing)

CONTROP reserves the right to change specifications without prior notice