



SPEED-MR



AUTOMATIC DETECTION AND SURVEILLANCE SYSTEMS

The SPEED-MR is a Land System designed to provide automatic detection, recognition and identification capabilities that were especially developed for diverse land environmental conditions. The SPEED-MR System provides maximum sensor range performance by using highly sensitive sensors and unique video enhancement algorithms. SPEED-MR 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

OPTIONAL

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

FEATURES

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

IMAGE PROCESSING

- Local AGC
- Video Enhancement
- Automatic Target Tracker

Who We Are

CP Technologies designs, fabricates and integrates standard and customized high-performance computing platforms and LCD monitors for military, industry, and commercial applications.

Using COTS components, CP Technologies provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs.

CP Technologies is an ITAR Registered and ISO 9001:2015 Certified business that has been operating in Southern California for over twenty years.

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

CP Technologies
 2620 Deep Well Ranch Rd
 Prescott, AZ 86301
 combatproven.tech
 858.571.4330



TECH SPECS

ELECTRO-MECHANICAL

Field of Regard Azimuth: n x 360° (continuous)
Elevation: -45° to 45°

Angular Velocity 60°/s

PHYSICAL SPECS

Weight 86lbs

Gimbal Weight 35kg | 77lbs

Op Temp -10° C to 55° C (optional -40° to 60°)

Humidity Up to 95% (Non-condensing)

DAYLIGHT CHANNEL

Sensor Type 1/2.8" High Resolution Color CMOS

Lens Zoom x27

FOV 63° x 48° (Widest)
2.3° x 1.8° (Narrowest)

LASER RANGEFINDER

Type Eyesafe, Class 1

Wavelength 1.54

Range Up to 20Km

SWIR SPOTTER

Sensor Type Staring Array, InGAs, Digital

Spectral Range 0.9-1.7 μ m

FPA 640x512

Horizontal NFOV 1° (500mm focal length)

THERMAL IMAGING (TI) SENSOR

Sensor Type MWIR InSb 3rd Gen FPA

Spectral Range 3-5 μ m

FPA 640x512

250mm:

Lens Continuous Optical Zoom x12.5
FOV 27° x 20.2° (Widest), 2.2° x 1.7° (Narrowest)

720mm:

Lens Continuous Optical Zoom x36
FOV 27° x 20.2° (Widest), 0.76° x 0.59° (Narrowest)

ELECTRICAL INTERFACE

Voltage 28 VDC

Consumption 250W nominal (300W Peak)

Video Out Analog PAL/CCIR

QUESTIONS?

Reach out to us at
combatproven.tech
or call 858.571.4330

ENGINEERED TO YOUR SPECIFICATIONS

- In-house engineering department
- Design and build of rapid prototypes. Experience with solving difficult customer application problems through knowledge of the industry and custom system design and manufacturing capability
- Our Engineers use Solid Works 3D CAD modeling software for mechanical design and thermal simulation
- Design experience with MIL-STD-167, MIL-STD-461, MIL-STD-810, and MIL-S-901, in addition to FCC, UL, CE, and country specific agency requirements

REVISION CONTROL & CONFIGURATION MANAGEMENT

- Our Program Managers will assure your products are revision controlled for the life of the program
- Configuration Management to assure TAA Compliance and system compatibility
- One part number for life of the program
- Counterfeit and obsolescence management

FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 23,000 sqft and has dedicated 12,000 sqft to manufacturing and 3,000 sqft to engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

QUALITY COUNTS

- ISO 9001:2015 Certified
- 100% system inspection before shipment
- All integrated systems undergo a minimum 24-hour system test and burn-in before shipment to the customer
- Assistance with 3rd party verification of system specifications
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

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