

# SPEED-ER



## EXTENDED LONG RANGE DAY & NIGHT STABILIZED SURVEILLANCE SYSTEM

The SPEED-ER is a Land System designed to provide 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, gyro-stabilization and unique video enhancement algorithms. It 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)

### FEATURES

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

### 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**  
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858.571.4330



# TECH SPECS

## ELECTRO-MECHANICAL

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

## PHYSICAL SPECS

<b>LRU Weight</b>	31kg   68.35lbs (TI), 18kg   39.7lbs (Day)
<b>Gimbal Weight</b>	35kg   77lbs
<b>Op Temp</b>	-10° C to 55° C
<b>Humidity</b>	Up to 95% (Non-condensing)

## COLOR DAY TV SENSOR

<b>Resolution</b>	WFOV - 1920x1080 (768 x 576 effective) NFOV - 1920x1440 (768 x 576 effective)
<b>Horizontal FOV</b>	WFOV - 60° continuous to 1° NFOV - Dual FOV 0.8° and 0.2°

## LASER POINTER

<b>Wavelength</b>	5 µm
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## LASER RANGEFINDER

<b>Type</b>	Eyesafe, Class 1
<b>Wavelength</b>	1.54
<b>Range</b>	Up to 20Kkm

## SWIR SPOTTER

<b>Sensor Type</b>	Staring Array, InGAs, Digital
<b>Spectral Range</b>	0.9-1.7 µm
<b>FPA</b>	640x512
<b>Lens</b>	Continuous Optical Zoom x5
<b>Horizontal NFOV</b>	Horizontal Narrow 0.39°

## THERMAL IMAGING (TI) SENSOR

<b>Sensor Type</b>	3rd Generation, Staring Array, InSb, Digital
<b>Spectral Range</b>	3-5 µm
<b>FPA</b>	640x512
<b>Lens</b>	Continuous Optical Zoom x30
<b>Horizontal NFOV</b>	0.22° (2500mm focal length)

## ELECTRICAL INTERFACE

<b>Voltage</b>	220 VAC
<b>Consumption</b>	500W nominal
<b>Video Out</b>	GigE

### 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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