

# **SPX-800**

## Long-Range Multi-Sensor System

The newly designed SPX-800 is a Senspex integrated electro-optical infrared (EO-IR) multi-sensor camera system featuring a state-of-the-art high-definition visible camera and an extreme long-range thermal camera on a high-speed pan/tilt positioning unit. In good conditions, the camera system enables man-sized target detection at ranges in excess of 25 km. The 785mm continuous zoom infrared camera integrates advanced cooled photodetector technology with up to a 1280 x 1024, 10µm pitch focal plane array and operates in the 3-5µm MWIR spectral region. SPX series EO-IR systems feature Senspex's NVIDIA-based GILA embedded graphics processing with intelligent analytical and target detection Al software options.



#### **FEATURES**

### **System**

- IP Network Video & Control
- Built-in Health and Status Monitoring
- Multiple Command Protocol
- Embedded Video Processing Built for Al

#### Thermal Imaging Camera:

- F/4.0 Continuous Zoom Lens
- 12.5° to 0.7° Horizontal Field of View
- 18X Optical, 8X Digital Zoom
- Cryo-cooled MWIR Detector
- HD: 1280 x 1024 px FPA
- Autofocus
- Onboard Digital Image Enhancement
- Electronic Image Stabilization
- Sealed and Backfilled IP67 Housing

#### **Visible Spectrum Camera:**

- 30x Optical, 12x Digital Zoom
- Full HD1080p 2 MPx Image Sensor
- Wide Dynamic Range (WDR)
- Defog Function
- Electronic Image Stabilization
- Day/Night ICR
- 0.002 Lux Minimum Illumination

#### **Integrated Precision Positioning System:**

- High Speed Direct Drive
- 16-bit Position Sensing
- Fastest 240°/sec Motor Speeds
- 0.1° accuracy
- 0.02° repeatability
- Hundreds of On-Board Presets
- Supports External Preset Data

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## **System Specifications**

Video Formats Analog: NTSC/PAL, CVBS,

Differential UTP; Digital IP: HEVC/H.265, H.264, MJPEG,

RTP, RTSP, ONVIF

Control Interface RS422/485, HTTP/TCP/IP,

ONVIF Pelco D, TASS, Subsystem

pass-through

<u>Presets</u> Hundreds of onboard presets,

supports external preset data

transfer

Housing IP67 rated, sealed & dry nitrogen

backfilled, lens defrosters

Environmental MIL-STD-810H

Operating Temp: -32°C to 55°C

Storage Temp: -40°C to 70°C

Power 18-26 VDC / 200W Max

<u>Weight</u> ~102 lbs. (46 kg)

Dimensions 25.5" (L) x 23" (W) x 22" (H)

<u>Part Number</u> SD Thermal Imager: 950058-10

HD Thermal Imager: 950062-10

#### **Vector 50-Pan & Tilt Positioner**

Drive Direct Drive Servo

Pan Range 360° Continuous

Pan Speed <0.01°/sec to >300°/sec

<u>Tilt Range</u> ±60°

<u>Tilt Speed</u> <0.01°/sec to >300°/sec

<u>Precision</u> 16 bit encoding

Accuracy ±0.1°

Repeatability ±0.02°

#### **Thermal Camera Characteristics**

Focal Plane Array Cryo-cooled MWIR

**SSL High Operating Temperature** 

Spectral Band 3 μm to 5 μm

Resolution SD Option: 640 x 512 px

HD Option: 1280 x 1024 px

Cooler Lifetime 20,000 Operating Hours\*

\*Typical test result, actual life depends on operating pattern and conditions

Warranty 2 years

<u>Lens Type</u> F/4 Diamond-like coated

**Continuous Zoom** 

Field of View SD Option: 12.5° x 9.4° Wide

0.7° x 0.5° Narrow

HD Option: 16.6° x 13.3° Wide

0.93° x 0.74° Narrow

Lens Features Auto and Manual Focus, Auto

Gain, Edge Enhancement,

White/Black Hot

#### **Visible Camera Characteristics**

Sensor 1/3" HD CMOS

Resolution 1920x1080 px, 2MPx

**Zoom** Continuous Zoom

30X Optical, 12X Digital

Field of View 63.7° wide to 2.3° narrow

(Optical HFOV)

Signal to Noise >50dB

Min Illumination 0.013 Lux ICR-On 30 FPS

0.002 Lux ICR-On 1/4 FPS

Features: Day Night ICR, Wide Dynamic

Range, Defog, Noise Reduction, Image Stabilization, Motion

Detection

Manufacturer reserves the right to change specifications to reflect latest changes in technology and improvements at any time without notice.

Export is subject to US Government regulations.

