

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, making it an ideal choice for marine and high humidity environments. The SPX-800 dual sensor camera system combines high-end performance with unparalled long range target detection, recognition capabilities, reliability, and ease of use.



FEATURES

System

- IP Network Video & Control
- Built-in Health and Status Monitoring
- Multiple Command Protocol:
 PelcoD, TASS, ONVIF, Subsystem Pass

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 RS232/422/485, 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

Weight ~102 lbs. (46 kg)

<u>Dimensions</u> 25.5" (L) x 23" (W) x 22" (H)

Part Number SD Thermal Imager: 950058-00

HD Thermal Imager: 950062-00

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.

