SPX-500
Long-Range Multi-Sensor System

The newly designed SPX-500 is a Senspex integrated electro-optical infrared (EO/IR) multi-sensor camera system featuring a state-of-the-art high-definition visible camera and long-range thermal camera on a pan/tilt. With over 15 years experience with thermal imaging camera technologies, Senspex has recognized the need in the marketplace for upgrades to the existing thermal and visible camera systems.

FEATUReS

Thermal Imaging Camera:
- 5x continuous optical zoom
- Digital Zoom to 20x
- Available Detectors
  - 640 x 512 InSb Focal Plane Array
  - 640 x 480 HOT Focal Plane Array
- Extended Life Cooler (Optional)

Visible Camera:
- Full HD1080p 2 MP
- 30x optical zoom to 360x
- Minimum Illumination 0.01 lux
- Wide Dynamic Range
- Defog Function
- Image Stabilization

Integrated Precision Positioning System:
- Market’s fastest 300°/sec movement
- 0.05° accuracy, 0.01° repeatability
- Multiple User-Defined Presets
- 2-Axis Gyro-Stabilization (Optional)

Other:
- One point TCP IP network connection
System Specifications

Video Format         NTSC/PAL/Differential
Serial Interface     RS-422
Optional TCP/IP Interface
Power Requirements   18-28 VDC (direct to P/T), 100-240 VAC
or 12 VDC (with DIU)
Environmental        Rated IP67
Unit sealed and dry nitrogen backfilled
Lens Element Defroster
Operating Temperature Range:
-32°C to +60°C
Non-Operating Temperature Range:
-40°C to +71°C
Controls             Proportional Pan & Tilt speed controls
                      Field of View and Focus Slaving:
                      Visual/Thermal Zoom
Focus                Auto and Manual
                      Auto Scan w/ up to 99 user-defined
                      presets, variable speed, dwell and camera
                      selection
Weight               ~70 lbs. (32 kg)
Part Number          950046-00 (formerly 950002-00)
                      950047-00 (with HOT sensor)

Visible Camera Characteristics

Sensor               1/3” HD
Resolution           1080p 2MP
Field of View        42° to 1.6°
Zoom                 Optical 30X
                      Digital 12X
Min Illumination     <2.0 lux (1/60 sec)
                      <0.01 lux (1/4 sec)
Signal to Noise      >50dB

Other HD and low light cameras available

Thermal Camera Characteristics

Detector             InSb: 640 x 512
                      HOT: 640 x 480 (optional)
                      Extended Life Cooler
Spectral Band        3-5 μm
Lens Type            Motorized Remote Focus and
                      Continuous Zoom
Focal Length         100-500mm (Optical System)
f/#                  4
Field of View        5.5° x 4.1° (Wide) to
                      1.1° x 0.8° (Narrow)
                      Continuous Zoom
Controls/Features    Auto Focus
                      High Sensitivity Mode
                      Multiple Color Palettes
                      Inverse Polarity
                      Image Stabilization

Vector 50-Pan & Tilt Head

Pan                  360° Continuous
Tilt                 ±60°
Accuracy             ±0.05°
Repeatability        ±0.01°
Position Rate        Pan <0.01° to >300°/second
                      Tilt <0.01° to >300°/second

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.