

## FEATURES

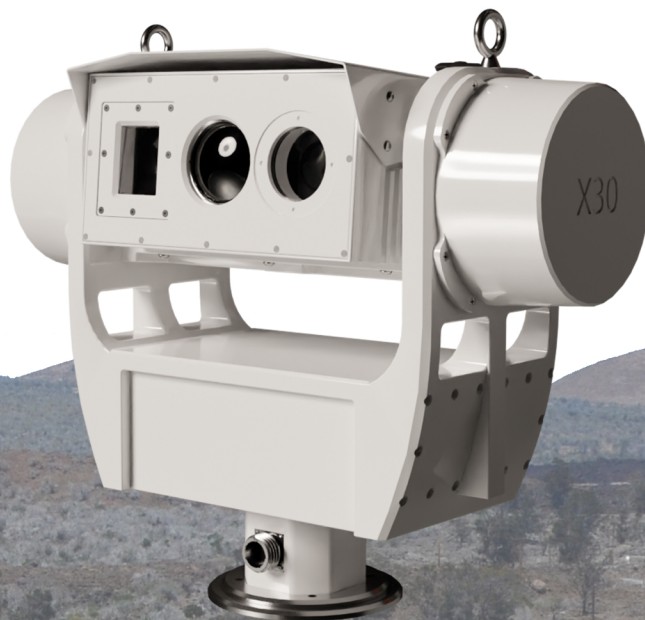
- Fully integrated modular payload package
- Customizable sensor combinations
- Embedded video and target processor
- Compact high-speed X30 positioning unit
- Ethernet connectivity
- Embedded control system

## OPTIONS

- Cooled MWIR thermal imaging module
- Laser range finder
- Laser illuminator
- Laser designator
- Ethernet connectivity
- Onboard GPS positioning

## SPX APEX30 Camera Systems Short-Range Thermal Imaging System

The SPX APEX30 (Advanced Positioning Electro-Optical X) is a compact lightweight camera system designed for land and vehicle-based surveillance at target distances of up to 3 km. The product's integrated payload housing allows customization of the sensor modules and enhanced capability for service and sustainment. The standard system features an uncooled LWIR thermal imaging camera, a high-definition visible spectrum camera and active laser tools for target range finding, target designation, geolocation, and scene illumination. SPX APEX30 series feature Senspex's NVIDIA-based GILA embedded graphics processing with intelligent analytical and target detection AI software options. Multiple lens configurations are available in this series. The SPX-75 is considered our standard product in the SPX APEX30 series.



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## System Control & Video Processor

<u>Video Formats</u>	Digital IP: HEVC/H.265, H.264, AV1, MJPEG; RTP; RTSP; ONVIF
<u>Control Interface</u>	422/485, HTTP/TCP/IP, ONVIF; Pelco D, TASS, Subsystem pass-through commands
<u>Embedded Software Modules</u>	Moving Object Detection, Motion Analytics, Target Tracking, Target Recognition & Classification, Edge Enhancement, LAP/LACE Scene Enhancement

## High-Speed Positioner

<u>Pan Speed</u>	0.01 to 300°/sec
<u>Pan Angle</u>	Continuous 360°
<u>Tilt Speed</u>	0.01 to 300°/sec
<u>Tilt Angle</u>	±90°
<u>Position Resolution</u>	18 bit; 0.0014°
<u>Position Repeatability</u>	±0.01°
<u>Position Accuracy</u>	±0.1°

## System SWAP

<u>Operating Power</u>	16 – 32 VDC, 250W max.
<u>Operating Temperature</u>	-30C to +70°C (-40°F to +158°F)
<u>Storage Temperature</u>	-40C to +80C
<u>Weight</u>	~ 70 lbs. (31 kg)
<u>Dimensions</u>	20" (L) x 19" (W) x 21 "(H)
<u>Environmental</u>	MIL-STD-810H
<u>Warranty</u>	2 Years

## Thermal Imaging Camera

<u>Type (Standard Option)</u>	Uncooled LWIR VOx microbolometer
<u>Lens</u>	5X Continuous Zoom 14mm - 75mm, #F1.2 Athermal lens design, focus is maintained from -35C to +70C
<u>Resolution</u>	640x512 px
<u>Field-of-View</u>	30.7° x 24.8° Wide 5.86° x 4.69° Narrow

## Visible Spectrum Camera

<u>Sensor</u>	1/3" HD CMOS
<u>Resolution</u>	1920x1080; 2 MPx
<u>Zoom Ratio</u>	Continuous Zoom 30X Optical, 12X Digital
<u>Field of View</u>	64° wide to 2.3° narrow (Optical HFOV)
<u>Signal to Noise</u>	>50 dB
<u>Min Illumination</u>	0.00008 Lux ICR-On 60 FPS
<u>Features:</u>	Day Night ICR, Wide Dynamic Range, Defog, Noise Reduction, Image Stabilization, Motion Detection, Visibility Enhancer

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