



WE BUILD SOLUTIONS

Extreme Long Range HD Multi-Sensor System

ATSC-1200HD

*Superior Day/Night Situational
Awareness with Increased Field of View*



The ATSC-1200HD is a new Extreme Long Range, Wide Area, Electro-Optical/Infra-Red (EO/IR) multi-sensor system offering increased day/night situational awareness with increased field of view (FOV) and resolution capable of detecting man-sized targets at long ranges. This system is ideal for surveillance and reconnaissance in ground-based security, drone defense, and homeland security missions requiring maximum detecting distance.

The system has demonstrated industry leading range performance and unparalleled reliability in critical 24/7 missions for border and maritime security. The ATSC-1200HD variant builds on its trusted heritage with continuous zoom, higher resolution and increased FOV to detect targets at long distances, thereby providing the end user with a tactical advantage. The HD IR and HD EO camera and zoom optics have been optimized for maximum thermal/light collection to produce corrected full field imagery.

The ATSC-1200HD includes an integrated precision 2 Axis Pan and Tilt (P&T) positioning system, ruggedized, direct drive, high reliability architecture.

MID-WAVE IR CAMERA

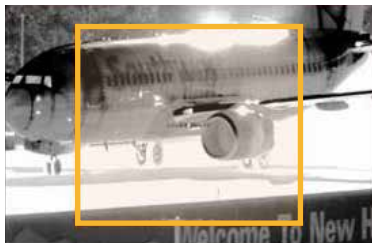
- Industry Leader in High-Sensor Reliability
- Superior in Long Range Full Field Image Sharpness
- Unique Mid-Wave Notch Filter for Fog Mitigation
- Local Area Contrast Enhancement
- Electronic Image Stabilization
- Continuous ZOOM Lens: F/#4.0: (95 - 1200 mm EFL)
- Auto and Manual Focus
- Automatic Gain Control

VISIBLE SPECTRUM COLOR CAMERA

- Full High Definition 1/2" Format HD Sensor
- Low Light Sensitivity
- Electronic Image Stabilization
- Adaptive Fog Reduction
- HD Lens: ELF 16.7mm - 1000mm, expandable to 33.4 - 2000mm (with 2x Auto and Manual Focus)
- Auto Exposure Control

PAN TILT MECHANISM

- Precision Positioning System
- 2-Axis Gyro-Stabilization
- Multiple User-Defined Presets



Standard Definition

High Definition

ATSC-1200HD

SPECIFICATIONS

HD THERMAL:

Focal Length	95mm-1200mm Continuous Zoom
F/#	f/#4.0
Spectral Range	3.0 - 5.0 microns, CO2 Notch Filter
Image Format	High Def 1280 x 1024 pixels, 10 microns
Cooler	Long Life (> 27,000 hours) Stirling
FOV	7.3° x 5.8° (Wide) 0.6° x .49° (Narrow)
AGC	Histogram Equalization, Linear, Manual
Stabilization	Electronic Image Stabilization

VISIBLE CAMERA:

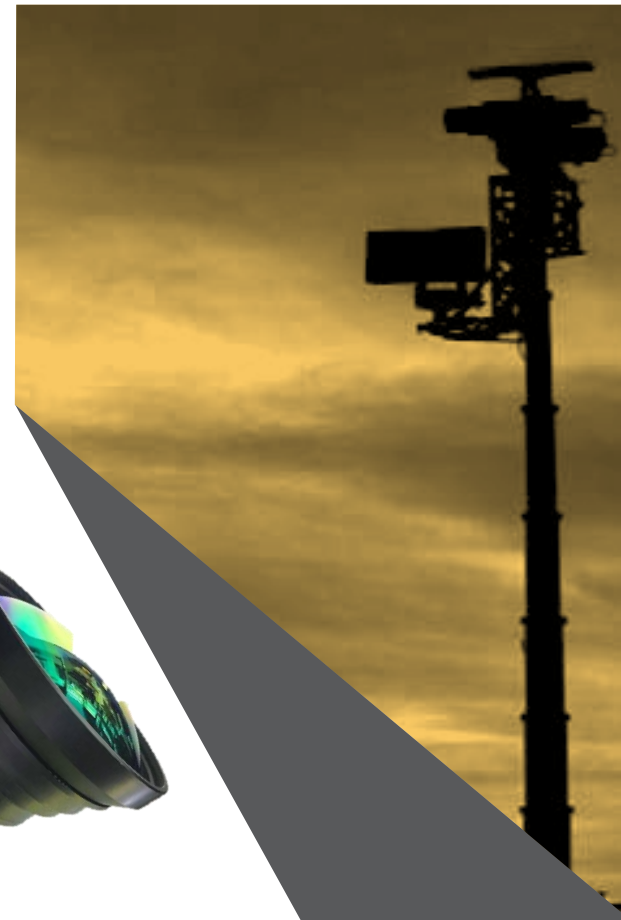
Focal Length	1x: 15.6 - 500; 2x: 16.7-1000; 4x: 33.4-2000mm
Image Format	2.4 Mega Pixels, 1937(H) x 1097 (V)
Image Device	Full High-Definition with 1/2" High-Sensitive Format
AGC	OFF/ Auto (Max Gain 75dB, Fog OFF, Max Gain 42dB, Fog ON)
Low Light Sensitivity	Color: 0.009lux B&W: 0.0005lux
FOV	1x Wide: 26.2°x 15.0° 1x Tele: 0.83°x 0.47° 2x Wide: 24.5°x 14.0° 2x Tele: 0.42°x 0.24° 4x Wide: 12.4°x 7.0° 4x Tele: 0.21°x 0.12°

SYSTEM:

Video Format	HD: TCP/IP Video Encoder
Serial Interface	RS-422 or Ethernet with IP Encoder
Power Input	18-28VDC (24 VDC Nominal Direct to P&T) 100-240VAC or 12VDC (with Optional DCU)
Temperature Range	-32°C to +60°C Operating -40°C to +71°C Non-Operating
Controls	Joystick (Optional with DCU) Via PC through a RS-232/422Link TASS, ONVIF, and Pelco-D Protocols Proportional P&T Speed Controls Focus (Auto/Manual)

PAN TILT:

Controls	Azimuth Control, 360° Continuous
Elevation	+/- 60°
Pointing Accuracy	0.05°
Pan & Tilt Slew Rate	Pan <0.01° to >120°/sec
Payloads	Interchangeable; Field Replaceable with Quick Release; Pre-Bore Sighted



**Dimensions (mm) and designs are indicative and subject to the final camera configuration/model*