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
**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 ½” 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°× 15.0° 1x Tele: 0.83°× 0.47° 2x Wide: 24.5°× 14.0 2x Tele: 0.42°× 0.24° 4x Wide: 12.4°× 7.0° 4x Tele: 0.21°× 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) 100-240VACor 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*