Almenta EagleEye is a high-resolution mid-wave thermal imaging system built around a large format 640x480 array and a choice of powerful continuous-zoom telescopes. While the EagleEye is available in its standalone, environmentally hardened enclosure, it can also include and optional high-magnification CCD-TV camera, laser rangefinder, Digital Magnetic Compass and an integrated, gyro-stabilized, pan/tilt mechanism that provides precise target geo-location capability. Operators can field EagleEye as a portable stand-alone system, or integrate it into a network of fixed-site sensors via its suite of plug-and-play interface options.

**APPLICATIONS**
- Force Protection
- Border Surveillance
- Tactical Reconnaissance
- Training Range Applications
- Fixed and Mobile Security
- Target Tracking
- Long Range Surveillance

**FEATURES**
- Cooled Thermal Imaging
  - Cooled detector results in long range performance. Designed for target detection up to 45 km
- 12.5x Continuous Zoom
  - Largest continuous zoom range available provides crisp image over full zoom range. Never lose sight of the target with continuous or pre-set zoom positions
- Autofocus
  - Immediate clear and focused image at the touch of a button
- Tunable STACE™ Enhancement
  - Reveals scene details missed by systems offering only histogram or linear image processing. Delivers a high contrast image even in the most challenging thermal conditions
- Large Format 640 x 480 Detector
  - Unmatched sensitivity and four times the resolution of mid-format systems for significantly greater range performance and image quality
- Rugged, Fully MIL-Qualified
  - CDMQ™ process (Commercially Developed, Military Qualified) delivers a military quality system, designed to work 24/7/365
- Network Enabled
  - Supports Nexus™ and common Pelco® network control protocols for easy installation and integration into existing networks
- MPEG4 Digital Video Format
  - Provides the highest fidelity VOIP possible
- Compact, Long Range Optics
  - Combines high performance with low weight and small size. Ranger HRC has the lowest system weight in its class, less than 19 lb (8.5 kg) system weight
# EagleEye

**APPLICATIONS**
- FORCE PROTECTION
- BORDER SURVEILLANCE
- TACTICAL RECONNAISSANCE
- TRAINING RANGE APPLICATIONS
- FIXED AND MOBILE SECURITY
- TARGET TRACKING
- LONG RANGE SURVEILLANCE

**SYSTEM INTERFACES**
- Analog video NTSC/PAL
- Digital video MPEG 4 (option)
- Command and Control Point-to-Point Serial or Ethernet 10/100 (single user)
- Pelco® Endura D (option)
- Nexus Networking Suite (option)

**THERMAL IMAGER OPTIONS**
- Sensor type 640 x 480 InSb focal plane array
- Wavelength 3-5 μm response
- Continuous zoom range options Multiple options, see below
- Selectable pre-set FOVs 4
- Automated features Auto Focus, Auto Adjust Focus Memory,
  Tunable STACE™ digital detail enhancement

**ENVIRONMENTAL**
- Standards MIL-461D; IP 65; IEC 529
- Operating temperature -26°F to 131°F
  (-32°C to 55°C)
- Storage temperature -40°F to 158°F
  (-40°C to 70°C)

**COLOR CCD-TV CAMERA OPTIONS**
- Format NTSC or PAL
- Type Color CCD
- FOVs Standard Range, 26x (1.6° to 42°)
- Long Range, 25x (0.48° to 28.7°)
- Ultra Long Range (0.5° to 11.8°)

**POWER REQUIREMENTS**
- Voltage 18-35 VDC
- Consumption 31 W (140 W with heater)

**LASER PAYLOAD (OPTION)**
- Rangefinder Type Erbium-glass
- Max. range 20 km
- Classification Class 1 (eyesafe)

**DIMENSIONS & WEIGHT**
- Size 18.6” x 7.6” x 8.8” (47.4 x 19.4 x 22.5 cm)
- Weight (can vary with options) System configuration dependant