

- ◆ Thermal Unattended Ground Sensor System
- ◆ Motorized Remote Focus, Auto -focus Option
- ◆ Quick Change Lenses from 30° to 3.3° HFOV
- ◆ Digital Video Trip Wire Technology
- ◆ Image archival storage to 2000 images
- ◆ Very Long Battery Life, Compact & Lightweight
- ◆ Integrated Modem & MIDS Receiver
- ◆ Camera Made in **USA**

Cue - Capture - Compress - Transmit - Analyze

An Integrated Sensor System

The TC -500/501 models are man portable unattended surveillance systems that integrate sensors and imagers to monitor and report on activities in remote areas. They are designed for easy deployment in DoD and DHS applications such as threat surveillance, force and perimeter protection, border security, situational awareness, and facilities monitoring. The deployed system monitors itself and alerts the user when motion events occur within a designated target area. This persistent all-weather system uses a thermal camera triggered by passive infrared (PIR), seismic or magnetic sensors and captures targets up to 665 meters away. The captured images are compressed and sent as individual images or loop animation movies via Iridium or Globalstar satellite or over non-line-of-sight RF communications link.

Advanced Capture Technology

Operating from a low power sleep state, the TC -500/501 wakes to a sensor event and captures images using video trip wires that discriminate based on target size, giving the user the 'right image' when events occur. To conserve power, the system then sleeps and awaits the next event. Sensor and video events are both needed to trigger a capture, reducing false alarms.

Advanced optics

Uncooled microbolometer with 76,400 pixels. Reduced pixel pitch reduces optics size and weight. Lenses are field changeable in seconds. Motorized focus is remotely adjustable. A suite of standard lens and FPA options includes 30°, 20°, 15°, 10°, 6.3°, 5° and 3.3° horizontal fields of view for standard (V₅₀) recognition ranges for dismounts to **665m**.

Rugged

The camera body and the lens are independently sealed and purged. Lenses are available with diamond hard coatings for the ultimate in protection. The TC -500/501 is rated from -25 to +60°C.

Data Communications

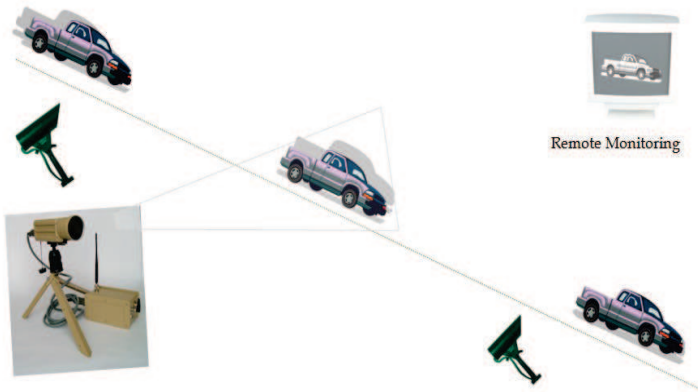
Data communications including control and image retrieval can be either local or long range. Select over-the-horizon Iridium® or GlobalStar® satellite modems, encrypted line of sight radio or local wired RS-232 options.

Contact:

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ECSI International

TC -500/501 Remote Imaging



Environmental

Water/Dust	IP-67 dust and water proof to 2 meters
Temperature range	-25° to +60° C Operating, -40° to +65° C Storage
Humidity, operating	To 95%, non -condensing, available to 100%
Humidity, storage	0-100%, condensing

Physical Envelope

System Weight	Less than 10 pounds (camera, 9.5° FOV lens, trigger box and cable)
Camera	3.1" x 3.1" x 6.7"; 2.7 lbs., exclusive of lens
Trigger box	4.2" x 4.2" x 9.5"; 5 lbs.
Mounting	1/4-20 tripod mount, with anti -rotation pin

Power

AC	110/120VAC, 50/60Hz via adapter
DC	8-15VDC, BA/5590 or similar batteries
Power	<3W imaging, <6W transmitting, System Sleep Power >65mW

Battery Life Estimate 1 month per BA/5390 battery, 24 events/day

Controller Software

From field setup to remote image retrieval and processing to long-haul communications, the TC -500/501's control GUI was developed in conjunction with the user community for powerful yet straightforward operation and analysis.

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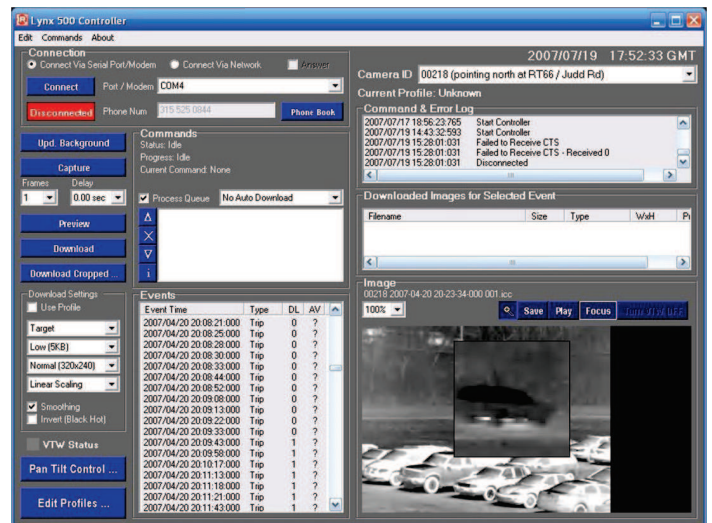
ISO 9001:2008 Registered

Imaging

Detector	320x240 microbolometer, 37.5 μm with detector shielding (TC -500), or 25 μm (TC -501)
Spectral range	8-12μm LWIR
Sample rate	60Hz (Export option <9Hz)
Detector noise	≤80mK F/1 NE ΔT
Focus	Remote motorized focus standard Remote Auto -focus optional
Lens	F/1.4 purged and sealed, Severe abrasion AR or Diamond Like Carbon coated
Horizontal FOV	30°, 15°, 9.5°, 5° (LYNX -500); 20°, 10°, 6.3° or 3.3° (LYNX -501)
Capture method	Automatic VMD, Digital Video Trip Wires
Video output	RS -170 NTSC with idle off feature
Time to capture	As fast as 5 seconds from sensor event
Image format	Time stamped JPEG -2000, NITF 2.1 option

Command

Local	Line of Sight Radio or wired RS -232
Satellite	Iridium® or Globalstar®
Geo -location	Optional GPS
Pan/Tilt	Optional remote Pan/Tilt control
Configuration	Pre -mission configurable and fully programmable via remote connection
User Interface	Graphical for Windows XP or 7
Activity Sensors	
Types	PIR, magnetic, seismic or acoustic
Receiver	Built-in MIDS receiver - external option



Notice: Export of products and/or services may be subject to the International Traffic in Arms Regulations (ITAR) per Title 22, CFR, Parts 120 - 130

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Specifications subject to change

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