

## Thermal Imaging Cameras for Law Enforcement/Military/Special Forces



**See the unseen!** Aspect Technology's thermal imaging cameras are the ultimate thermal vision advantage and provide users with the ability to see in complete darkness in all types of weather conditions including rain, snow, and fog. Our cameras light up the darkest nights and provide a sight tools unlike any other. The Thermal Hawk is an uncooled 7-14µm camera with 160x120 pixel resolution and 46 micron pitch.

### PUBLIC SAFETY & LAW ENFORCEMENT

The Thermal Hawk gives police officers the ability to see in complete darkness whether on a routine patrol, locating a lost child or tracking a fugitive or intruder. The Thermal Hawk increases an officer's vision and effectiveness. Officers on patrol can quickly scan between homes and buildings; see into dark garages, and under vehicles. When used in total darkness, officers can go undetected, as they search for prowlers.



### MILITARY

The Thermal Hawk delivers high performance DSP imagery in a lightweight rugged stealth-black weather protective case. Less manpower is required to conduct search and rescue missions and border patrol operations. It features completely quiet one-button point-and-view operation. Allow your troops to go undetected, as they search and survey the scene, unnoticed and out of harm's way. Provide an incredibly clear picture of the surrounding scene, up to 1,600 feet, day or night.



### SPECIAL FORCES

Provide Special Forces personnel with the right tool and increase efficiency and effectiveness on the job. Conduct Hazmat assessment, covert surveillance, and building and area sweeps. Respond to natural and man-made disasters. Allow your forces to conduct missions without exposing themselves to unnecessary danger. Monitor suspects without their knowledge, 24/7. With thermal imaging there are fewer surprises, and less need for risky blind sweeps.



#### **BENEFITS:**

- Increase safety
- Save lives
- Enhance effectiveness
- Reduce risk
- Enable better decisions
- Increase productivity
- **SEE THE UNSEEN!**



# Specifications

## Physical

- Dimensions: 6.375"L x 4.5"W x 2"H
- Weight Without Battery: ~1.5 lbs
- Ergonomic Design: One Hand Operation
- Mounting Provisions: Tripod Mount
- Enclosure: Corrosion Resistant

## Environmental

- Operating Temperature: -20°C to 60°C
- Storage Temperature: -40°C to 80°C
- Water Resistance: Splash-proof IEC pub. 529 IPX4
- Operating Humidity: 0-95 Percent Non-Condensing

## Electrical

- Power Source: Rechargeable Lithium (3VDC)
- Power Consumption: <.5 watts (typical)
- Operating Time per Charge: ~12 hours (varies with batteries and environmental conditions)

## Interfaces

- VCR Compatible Video Output: Analog; SMPTE – 170M NTSC; (.125" mini jack)

## Performance

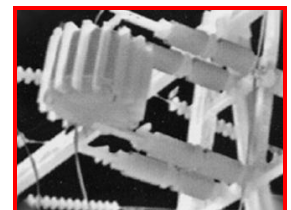
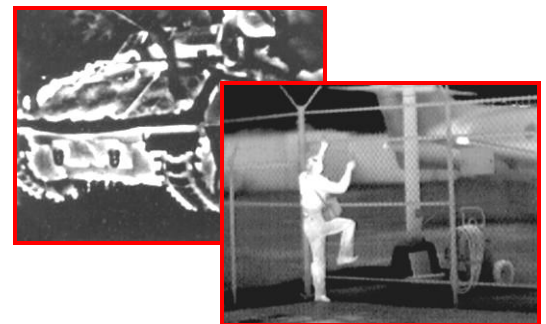
- Detector Type: Uncooled Amorphous Silicon Microbolometer (160 x 120 Pixels)
- Thermal Time Constant: <21 msec
- Pitch: 46.8 μm
- Spectral Response: 7 to 14 Microns
- Detector Temp Stabilization: Not Required
- Fill Factor: >75%
- NETD: <0.1° C
- Uniformity: >90% (small area)
- Dynamic Range: >80° C
- Frame Rate: 20 Hz NTSC, 60 Hz output field rate
- Time to Operation: ~ 5 Seconds (typical)
- Contrast/Brightness: Automatic
- Operation Modes: White Hot/Black Hot
- Moving Parts: Micro Shutter (FPA touch up)



|   | FOV<br>(H x V) | Focus<br>Distance | Person<br>Detection<br>Range |
|---|----------------|-------------------|------------------------------|
| 25mm f/1.0 (focusable)<br>ATE/TH2000-25 | ~ 17 x 12 deg  | 5 ft to infinity  | ~1600 ft                     |

Subject to change without notice.

Please call for additional information.



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