The Thermal Viper thermal imaging system is designed for rough and demanding operation. It delivers high performance Digital Signal Processing imagery in a lightweight rugged weather and corrosion protective enclosure. The Thermal Viper features completely quiet point-and-view operation. Its specially coated enclosure offers maximum protection against weather and corrosive environments such as marine and corrosive gasses associated with petrochemical facilities.

Basic model is supplied with standard monochrome (gray scale) display in white hot mode where higher temperature objects appear whiter on the display. Contrast and brightness is automatic with advanced image processing. The Thermal Viper can also be factory set to display the following:

- Temperature Bar
- Temperature Measurement Display (with saturation temperature of 1100°F (600°C) +/-10% w/ automatic electronic iris)
- Crosshair Display (center point for temperature display)
- Scene Colorization (3 factory set color points can be mapped to absolute temperatures; temperatures below the first absolute temperature threshold and above the saturation point are shown as shades of gray)
- Digital Zoom (up to 5X set at factory)

External user control can be provided with an optional Camera Control Box. External controls include Polarity (white/black hot modes) and Digital Zoom (1X to 2.5X).

**APPLICATIONS**

**Military**
The Thermal Viper’s rugged, reliable, simple and quiet operation provides reliable thermal imagery for demanding military operations.

**Public Safety**
Protect officers while searching and pursuing suspects. Detect prowlers.

**Search and Rescue**
Spot lost and stranded boaters and accident victims. Navigate dangerous waterways. Respond to natural and man-made disasters.

**Marine**
Off shore Oil Spills, Search & Rescue, Navigation

**Security**
Provide day/night visual surveillance. Protect critical infrastructure such as ports and waterways, nuclear power sites, and petrochemical facilities. Monitor perimeters to prevent intrusion.

**Wild land and Fire Fighting**
Provide the most efficient fire attack for wild land direct firefighting. Detect hot spots and see escape routes through darkness and thick smoke. Scan large areas for heat sources and flare-ups.

**Industrial**
Perform thermal analysis to detect heat loss points in structures. Detect wet areas signifying possible water leaks in roofs. Perform preventive maintenance to identify possible component failure in electrical components and machinery.

**Standard Equipment**
- Thermal Camera with Enhanced Digital Video Processing
- Weather Sealed and Camera Enclosure with Corrosion Protective Coating
- Fully EMI Shielded Video/Power Cable (coiled cable; extends to 6')
- Operator manual

**Optional Equipment**
- High Definition TFT 6.4 inch Flat Panel Display
- Stainless Steel Mesh for Protection Against Rocks and Other Debris
- Waterproof Variable speed Pan/Tilt Unit and P/T Controller
- Roof Bar Mount Kit
- Camera Control Box

ASPECT TECHNOLOGY & EQUIPMENT, INC
811 E Plano Pky #107 • Plano, TX 75074 • Phn 972-423-6008/Fax 972-423-7717 • email aspect@airmail.net • www.aspecttechnology.com
SPECIFICATIONS

Physical
- Dimensions: 8.375” L x 4.0” W x 4.0” H (excluding sun shroud)
- Weight: 3.4 lbs
- Mounting Provisions: Standard Camera Mount and Tripod Mount
- Enclosure: Weather Sealed With Baked and Chemically Cured Coating That Provides Maximum Resistance To Severe Corrosive Environments Such as Acids, Alkalis and Salt Spray. Resistant To Marring, Chipping, Weathering and Solar Exposure
- Hard Carbon Coated IR Window Resistant to Corrosive Alkalic, Acidic and Salty Environments
- Stainless Steel Mesh for Lens Protection Against Debris

Environmental
- Operating Temperature: -20°C to 85°C
- Storage Temperature: -40°C to 105°C
- Operating Humidity: 0-95 Percent Non-Condensing
- Environmental Enclosure (NEMA 4X)

Electrical
- Input Power: 6 – 12 VDC
- Power Consumption: <1.2 watts (typical)
- Reverse Polarity Protection

Interfaces
- Mil-Spec Connectors for Video and Power to Camera and Video Display
- Electronic Power/Video/Pan/Tilt Control Box (when optional Pan/Tilt is supplied)
- Optional Camera Control Box (provides polarity and digital zoom control)

Performance
- Detector Type: Uncooled Amorphous Silicon Microbolometer (160 x 120 Pixels)
- Pitch: 30.0 µm
- Spectral Response: 7 to 14 Microns
- Start-up Time: 2.4 Sec +/- 10% @25°C
- Thermal Sensitivity: <50mK
- Refresh Rate: Real-time 30Hz
- Contrast/Brightness: Automatic
- Operation Modes: White Hot/Black Hot (Optional Tri-Color Scene Colorization to Factory Set Absolute Temperatures
- Optional Temperature Bar
- Optional Crosshair & Temperature Measurement Display (with saturation temperature of 1100°F [600°C]) +/-10% w/ automatic electronic iris
- Optional Digital Zoom (1X to 2.5X)
- Saturation Temperature: 1100°F /600°C
- Output Resolution: 640 x 480 pixels for higher clarity thermal images

Subject to change without notice

Please call for additional information

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