View 360
Real-Time, 360-Degree IR Situational Awareness System

When a vehicle is clearing mines or escorting a convoy far from the nearest friendly base, situational awareness requires the maximum range, breadth, and intelligence. The View 360 system can help. Where the human field of vision covers about 180 degrees, this system embraces a full-circle 360 degrees while automatically detecting and tracking multiple targets at ranges up to 2 kilometers.

The system incorporates a high-resolution thermal camera, which can see through total darkness, or fog and smoke. When the platform is stationary, the system can detect and track crawling humans at up to 300 meters, standing humans at up to 1 kilometer, and vehicles at up to 2 kilometers. In addition to the sensor, the system includes a standard hatch mount, computer, high-definition touchscreen display, trackball controller, and power interface box—all in one easy-to-install configuration.

Constant operator monitoring is stressful and exhausting. To minimize pressure and maximize operator effectiveness, the View 360 system provides informative displays with automatic threat tracking and customized options—including the ability to zoom in on multiple “areas of interest” while maintaining full 360° awareness.

Applications
- Vehicle situational awareness
- Day/night battlefield surveillance
- Small base defense
- Force protection
- Border surveillance
- Route clearance
- Forensics

Capabilities
- Enables a single operator to effectively use 360° video imagery
- Extends human vision with 360° target recognition for early warning
- Sees through total darkness, or fog and smoke, thanks to HGH™ VIGISCAN™ long-wave infrared camera
- Provides quick and accurate threat assessment with autonomous panoramic intelligent surveillance
- Automatically detects and tracks multiple targets quickly and clearly with Moving Target Indicator (MTI), when platform is stationary
- Displays simultaneous 360° view and zoom windows for multiple areas of interest
- Operates intuitively with touchscreen and trackball
- Deploys rapidly; installs in less than four hours on any vehicle with a hatch
- Plays back video for forensics and training with integrated digital video recorder
- Meets IP-67 and MIL-STD-810F standards for rugged design

Timely, Advanced Warning for a Full Circle of Threats

View 360 integrated into vehicle
Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>LWIR CMOS HgCcTe</td>
</tr>
<tr>
<td>Sensor Size</td>
<td>288 x 4 TDI focal plane array</td>
</tr>
<tr>
<td>Horizontal Field of View (FOV)</td>
<td>5° (IFOV 0.31 mrad)</td>
</tr>
<tr>
<td>Vertical FOV</td>
<td>360° (IFOV 0.27 mrad)</td>
</tr>
<tr>
<td>Number of Pixels in 360° Image</td>
<td>288 x 40,000</td>
</tr>
<tr>
<td>Video Output</td>
<td>TCP/IP 14 bits digital</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40° C to +70° C</td>
</tr>
<tr>
<td>Area of Interest Zoom</td>
<td>Standard</td>
</tr>
<tr>
<td>Power</td>
<td>&lt; 230 watts</td>
</tr>
<tr>
<td>Sensor Size</td>
<td>12 in x 22 in</td>
</tr>
<tr>
<td>Weight</td>
<td>&lt; 100 lb (dependent on mounting options)</td>
</tr>
<tr>
<td>Display Options</td>
<td>Rotating &quot;turnstile drum&quot;, or 90° viewing angle strips (4)</td>
</tr>
<tr>
<td>Effective Resolution</td>
<td>12 megapixels, refreshed once per second</td>
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System Components

- HGH™ VIGISCAN™ long-wave infrared camera
- Hatch mount
- Rugged computer with DVR recorder
- High-definition, touchscreen display
- Trackball controller
- Power interface box
- Standalone training kit (optional)

Contact Us

For more information about this product:
SRI International Sarnoff
201 Washington Road
Princeton, NJ 08540-6449
609.734.2553
info@sri.com
www.sri.com/view360

About SRI International

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Headquarters
SRI International
333 Ravenswood Avenue
Menlo Park, California 94025-3493
650.859.2000

Additional U.S. and international locations
www.sri.com

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