The SUMIT 360® provides military armored vehicle operators with an innovative, 360 degree view of the environment around the vehicle utilizing advanced sensor technology to improve threat and obstacle detection that could pose a threat to ground forces, and their mission.

Equipped with powerful multi-spectral sensors in each module, the system uses on-board processing to form seamless, stitched images to provide a full field of view in any terrain, and virtually any conditions, day or night.

With additional target detection and identification capability, the system can also be paired with FLIR advanced analytics and Artificial Intelligence (AI) to provide vehicle crew, and transported troops a threat detection and classification to provide critical decision support before opening the hatch. The system also provides the ability to support remote, or optionally manned configurations.

**FEATURES**

**COMBAT COVERAGE**
Utilizes three LWIR, and three EO cameras in each module to provide day/night multi-spectral imagery, and generate 360 degree coverage around the combat vehicle.

**SEAMLESS IMAGE**
Each camera module provides 140 degree coverage with 5 degree overlap to create a seamless image composite, with less distortion than a single wide FOV lens.

**INTELLIGENT SENSING**
System supports integrated machine learning algorithms and Artificial Intelligence (AI), as well as advanced image processing to improve object detection, tracking, and classification.

**APPLICATIONS**

**360 DEGREE SITUATIONAL AWARENESS**

**INCREASE CREW FORCE PROTECTION**

**INCREASE VEHICLE MOBILITY**

**INCREASE OBSTACLE DETECTION**

**RECONNAISSANCE**
## Specifications

### Thermal Imager
**SUMIT360**
- **Detector**: Uncooled Vanadium Oxide (Vox) Microbolometer
- **Detector Pitch**: 12 µm
- **Spectral Band**: 7.5 µm - 13.5 µm
- **Spectral Response**: LWIR
- **Resolution**: 840x512 Native
- **Stitched FOV**: 140° H X 30° V

### EO Camera
**CMOS**
- **Detector Pitch**: 3 µm
- **Resolution**: 1920x1080 Native
- **Spectral Band**: 400-700 nm
- **Stitched FOV**: 180° H X 40° V

### Video Out
- **Video Format**: HDMI / H.264 encoded
- **Video Framerate**: 30 Hz
- **Video Latency**: Glass to glass latency is less than 200 ms via GbE link

### Interfacing
- **Supply Voltage**: 12-28 VDC

### Size and Weight
- **L**: 6.0”
- **W**: 8.5”
- **H**: 6.5”
- **Weight**: < 7 lbs per module

### Environmental
- **Operating Temperature Range**: -32°C to +63°C
- **Storage Temperature Range**: -33°C to +71°C
- **Shock Functional**: 20g
- **Vibration Operational**: SAE J1455

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*The World's Sixth Sense*