



SITUATIONAL UNDERSTANDING MISSION INTELLIGENT TECHNOLOGY

SUMIT360®

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		640x512 Native	
Stitched FOV		140° H X 30° V	
EO CAMERA			
Detector		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		-32C to +63C	
Storage Temperature Range		-33C to +71C	
Shock Functional		20g	
Vibration Operational		SAE J1455	



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20-0372-SUR-SUMIT360 SS LTR



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