



# IPS511

## Low SWaP Vehicle Situational Awareness Sub-system

### Features

- Single contiguous 360° panoramic view from up to 12 analog inputs
- Supports two independent operators
- Remote Ethernet host interface
- Remote calibration
- Symbology overlay
- Motion detection
- Up to 16 Analog video inputs possible
- Rugged DC powered sealed chassis

The rugged IPS511 is used primarily for Situational Awareness (SA) systems to generate 360° views while the observer is fully protected. The sub-system is a DC powered video processing unit capable of processing multiple simultaneous analog video inputs to generate a range of different video display configurations for two simultaneous video outputs.

Display configurations range from a single switched input display, to tiled or stitched panoramas from multiple video inputs, with optional overlaid symbology display. Additional configurations can be configured that provide a ribbon display of all video inputs simultaneously.

The sub-system supports two independent operator displays, where each operator can

adjust the direction of view and the magnification within the panorama.

The IPS511 will process up to 12 video signals selected from up to 16 analog video inputs. It provides two NTSC/PAL video outputs or two DVI-D video outputs. The IPS 511 is calibrated, configured and controlled via an Ethernet interface from a remote computer.

The sub-system offers an optional moving target detection process. This process performs 'round robin' detection on one video input at a time. The detection events are returned to the remote computer via Ethernet and/or can be displayed as symbols overlaid on top of the composited video.



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## Specifications

### Video Inputs

- 16 NTSC/PAL analog physical inputs
- 16 analog video pass through

### Video Output

- 2x DVI-D display outputs, or
- 2x NTSC/PAL display outputs

### Communication Ports

- 1x 10/100BaseT Ethernet connection
- 4x RS232 or RS422
- 2x USB

### Power Supply

- 28VDC (nominal), 18-36V standard military vehicle supply
- Power consumption: 35W (nominal)

### Support

- Optional breakout cables

### Mechanical

- Dimensions: 260x232x42mm
- Weight: 2.5Kg

### Environmental

- Operating Temperature: -40°C to 71°C
- Storage Temperature: -50°C to 100°C
- Vibration and shock tested for military track vehicle use
- Designed to meet MIL-STD-810 G



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