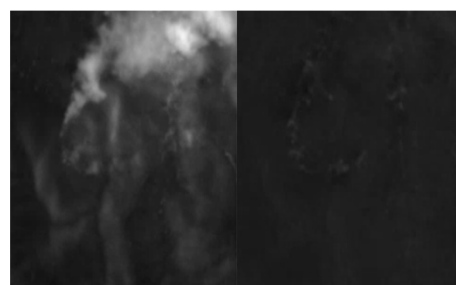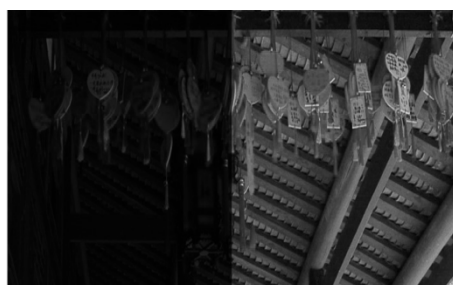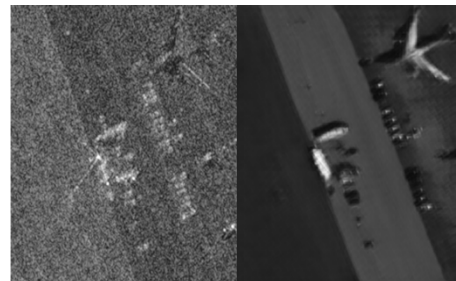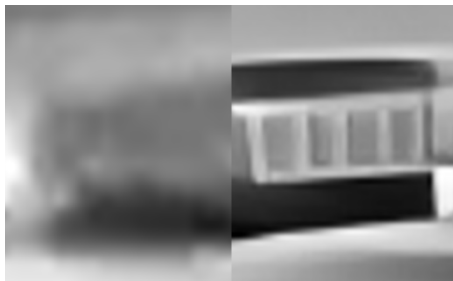Video and Image Processing (VIP) software encompasses advanced capabilities for target detection, tracking, image enhancement, and generation, providing state-of-the-art solutions for surveillance and reconnaissance missions.

VIP is fully compatible with electro-optical (EO) systems, short-wave infrared (SWIR), mid-wave infrared (MWIR), long-wave infrared (LWIR), and synthetic aperture radar (SAR) technologies. This VIP software ensures rapid, robust, and cost-effective deployment of sophisticated image and video solutions, catering to defense, industrial, and commercial applications.

Target detection/Tracking

Advanced moving target detection and tracking software excels in diverse scenarios, ensuring robust performance in challenging conditions

·   Low-visibility condition: Adverse weather conditions, darkness, or environments
·   Cluttered Environments: urban areas or dense forests
·   Occlusion: temporarily hidden or obscured by other objects or environmental factors

Image Enhancement

Cutting-edge image quality enhancements notably enhance the clarity and precision of both videos and images, streamlining the process of target detection, recognition, and identification

·   Turbulence mitigation: Reducing the adverse effects of atmospheric turbulence for long-range imaging
·   Super-resolution: Eeffectively resolving intricate details and generating high-quality image
·   De-noising, De-raining: Effectively remove noise and rain artifacts
·   Enhancing low-light image: Improving visibility and detail in environments with limited lighting conditions

Image Generation

The state-of-the-art image generation technology enables seamless data transformation across various spectral ranges, enhancing versatility and broadening capabilities in surveillance and reconnaissance

·   SAR to EO: Enhanced visualization and interpretation of terrain features, structures, and targets.
·   RGB to SWIR: Improved discrimination between objects and materials, enhancing target detection capabilities
·   RGB to Hyperspectral: Enhanced precision in identifying and classifying materials, substances, and objects.

Leverage VIP's cutting-edge features to transform your operations. Contact us today to maximize the effectiveness of your surveillance and reconnaissance.

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