

Tactical Image Processing Software (TIPS)

Real-time Imagery Enhancement and Stabilization

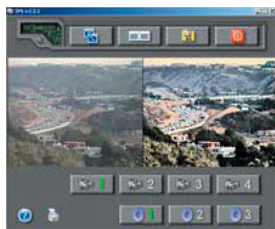
TIPS, a breakthrough software product from Brandes Associates, Inc., performs advanced real-time imagery enhancement for low-quality/low-resolution still and full-motion video sources — extracting hidden levels of detail previously attainable only with high-end processing systems.

Ideal for small and mini-UAVs, installed fixed camera bases, command centers, and other surveillance applications, TIPS can be deployed on any Intel® P4 or PM-based PC or laptop, or as part of BAI's complete TIPS Command Center (TIPS-CC) solution. TIPS advanced image processing capabilities include:

- ▶ Standard NTSC or PAL resolution
- ▶ Processes at full 30 fps (or faster)
- ▶ Max 100ms delay (~2.5 frames)
- ▶ Up to 14-bit color depth
- ▶ Runs on standard Intel platforms
- ▶ Sub-pixel video stabilization
- ▶ Noise reduction
- ▶ Image enhancement
- ▶ Low-light operation
- ▶ Video format conversion
- ▶ Monochrome, color or IR input

Utilizing TIPS in conjunction with ordinary video sources — such as webcams or security cameras — operators can improve the performance and detection range of high-end day and night cameras, and achieve the image processing performance of far more costly high-resolution cameras.

TIPS software includes modules for 3-axis Stabilization (Translation in X and Y, Rotation); Super Stabilization (4-D and 1/10 pixel jitter control) and Resolution Enhancement; Vision Enhancement; and Noise Reduction. Image quality for both still and full motion video is enhanced by an order of magnitude, inherently improving the performance of existing tracking or processing algorithms (e.g., contrast seeker, pattern match, etc.). TIPS can also convert video from any bit depth to any other bit depth in real time, producing video appropriate for any target display — from high-resolution monitors to PDA's and cell phones with limited color palettes.



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