mPOWER™
Empower Technologies

BULLSEYE - REAL TIME VIDEO MOTION STABILIZER

Perfect Solution for Translational and Rotational motions

The BullsEye BE1000 uses the latest embedded processing technology and video stabilization algorithm to create a state of the art real time video motion stabilizer. It can remove shaky and blurry images due to uncontrolled camera motions such as shaking and rotational movement result from strong winds and vibration. These motions are the most common problem for cameras mounted in manned/unmanned military, security, and civilian aerial, ground, or marine vehicles. Also affected are outdoor security/surveillance cameras mounted on poles or fixtures attached to a structure to monitor roads, bridges, rail tracks, building/site perimeter (e.g. hospital, reservoir, chemical plant, power station, or nuclear plant).

The need for a video motion stabilizer is essential to eliminate the effects of undesired camera motions for operators or analytic software to be able to see a stable image of the live or captured video so they can take appropriate action.

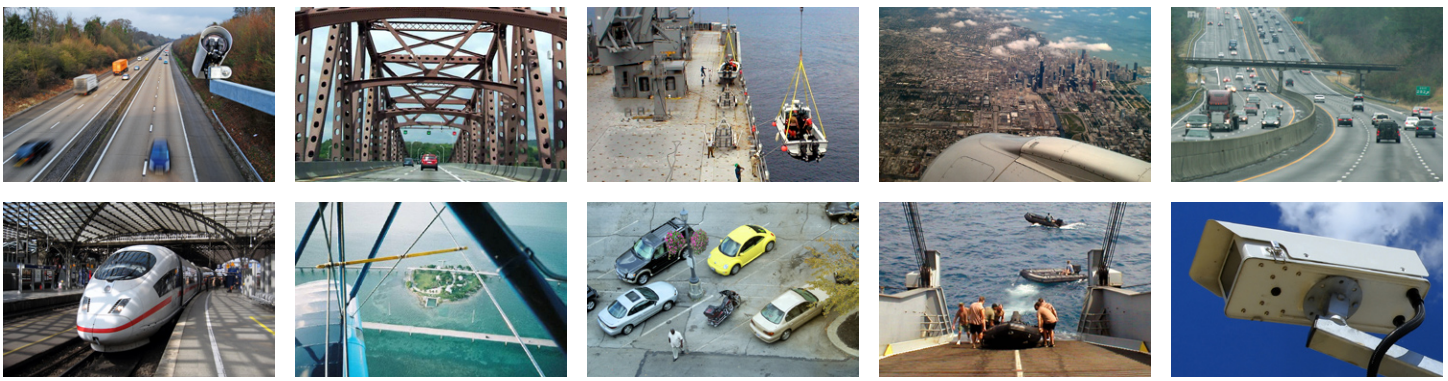
The BullsEye BE1000 is a high performance embedded always-on fanless video image processing device, which is low power, low heat and capable of instant on and instant off. As a result, the unit is much more economical to operate and very adaptable to various field operating environments such as deserts to cold places like Northern Canada.

Empower's BullsEye BE1000 real time video motion stabilizer is a perfect companion product to Pixon Imaging's real time video image processor line of products. Empower's real time video motion stabilizer and Pixon Imaging's real time video image processor together provide unprecedented level of translational and rotational image stabilization, dehazing, deblurring, contrast enhancement, sharpening, and signal-to-noise ratio enhancement, all without generating artifacts, in real time. The BE1000 can perform real time image stabilization for live video or pre-recorded video images.

APPLICATIONS

- Outdoor cameras mounted on poles
- Homeland security
- Intelligent traffic systems
- Surveillance
- Cameras on ground vehicles
- Cameras on manned or unmanned aerial vehicles
- Maritime applications
- Video post-processing

APPLICATION EXAMPLES



BULLSEYE - REAL TIME VIDEO MOTION STABILIZER

FEATURES

- Easy to install
- Correcting unstable video in real-time
- Produce steady video stream for accurate video analysis
- Provide better viewing quality for effective security monitoring
- Output better quality videos
- Enable better video compression to save storage capacity
- Small footprint enclosure
- Low power consumption
- Low heat

SPECIFICATION

- Video stabilization of rotational motion movement around optical axis
- Video stabilization of translational motion movement in horizontal and vertical directions
- Input data: Analog composite NTSC or PAL
- Input video resolution up to 720x480 for NTSC and 720x560 for PAL
- Output data: Analog composite NTSC or PAL
- Output video resolution up to 720x480 for NTSC and 720x560 for PAL
- Full-colour video processing
- Correction accuracy up to half-pixel
- Low-latency real-time processing camera data or pre-recorded video; and output processed data (maximum 3 frames)
- Processing speed up to 25–30 frames/sec
- External Power Supply - 5VDC, 1.2A DC
- Temperature Range: 30 - 120 degrees F
  0 - 50 degrees C
- Dimensions: 1.75" H x 8.5" W x 8" L
- Weight: 1.2Kg (PCB Version 0.1Kg)
- Finish: Black powder coated aluminium

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