FluxData, Inc. Introduces New Multispectral Camera with Embedded PC104 Computer

FluxData, Inc. introduces compact real-time multispectral imaging system for use in surveillance, defense, medical and machine vision applications. The embedded PC/104 computer allows for real time processing of large volumes of multispectral data and the potential to create a smart grid of imaging systems.

Rochester, NY (PRWEB) June 10, 2009 -- FluxData, Inc. today introduces a new multispectral imaging system with an integrated PC/104 computer system making it the first and only of its kind available in a compact form factor.

This new system allows complex on-board processing of large volumes of multispectral data. It is a flexible imaging system, affording users all of the services of a workstation computer including the options to process data locally in applications such as target detection, streaming data to a central control center, or in a more exotic, peer-to-peer configuration where the cameras interact with and queue each other, or parallel process each other's data.

The optical system is based on the robust and successful FluxData FD-1665. The FD-1665 is a flexible 3-CCD camera system that can be manufactured with any combination of narrow-band or broad-band filter coatings between 380-1000nm. This provides a performance advantage over existing RGB 3-CCD or 2-CCD RGB/NIR systems where spectral response is limited to predefined manufacturer configurations. The internal configuration of the camera system allows for high data throughput and independent control of exposure, gain and frame-rate for maintaining high signal-to-noise ratios from each sensor. The 3-CCDs can be simultaneously or sequentially triggered via software or hardware. The system can accept 14mm-1500mm lenses in F-mount and T-mount styles, as well as tripod or pan/tilt mounted.

The optical system is integrated within one physical enclosure with the PC/104 computer. The computer specifications include an Intel Core2Duo up to 1.67 GHz, 2GB DDR-RAM, 100Base-T LAN-Ethernet, USB 2.0, SATA, VGA, and Firewire 800. It is capable of running Microsoft Windows based operating systems or a variety of the Linux distributions. The PC104 hardware can be configured with other PCI or PCI-Express options to meet the user's requirements.

The versatile camera design supports a wide array of applications in various markets, especially where there are size and weight limitations while still requiring multispectral imagery with high power processing. These applications include a wide-area network of high resolution cameras for surveillance, real-time target detection using multi-spectral imagery, or a self-contained stand-off detection system used in treaty and environmental monitoring. Additionally, this system is poised to be deployed in a variety of fields including medical and machine vision, utilizing custom spectral, polarimetric or HDR filters, with sensors capable of operating at a variety of frame rates.

Pano Spiliotics, CEO of FluxData, Inc. states, "The release of the FD-1665 with a fully embedded computer option represents a major step forward in offering a truly integrated multispectral imaging system that can provide real time processing, detection and dissemination. This configuration is ideal for remote locations where size, weight and power are critical. Furthermore, the embedded version of the FD-1665 will allow for time and cost savings to integrators."
About FluxData, Inc.:  
FluxData develops and manufactures analytical instrumentation for a wide range of industrial applications. FluxData provides accurate, flexible and scalable instrumentation for research and development, production and process control. Every product comes with FluxData's commitment to first-rate customer support. For more information, please visit www.fluxdata.com.

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