

Intelligent, High-Resolution, Machine Vision Cameras

Northwich, Cheshire, April 2010 – Kane Computing have signed an exclusive distribution agreement with Imaging Diagnostics Ltd to market and sell their range of Camelot™ Intelligent Machine Vision Cameras in the UK.

Camelot™ is a family of digital cameras for machine vision applications with fast USB2 connection and embedded digital signal processor capable of performing advanced image processing algorithms in the camera on the fly and capable of storing a buffer of images in the camera without the need to send all images to the PC. The cameras are intended for medical and industrial applications requiring superior image quality high performance and yet attractive pricing.

Camelot™ smart cameras are the perfect option for machine builders and product developers looking for high quality, low cost machine vision solutions suitable for mass production applications, harnessing the power of an embedded Blackfin digital signal processor (DSP).

The processor-centric architecture transfers real-time image data from the module's sophisticated on-camera sensor directly to the Blackfin BF548 high performance DSP for processing. 64 Mbytes of system DDR buffer memory stores enough image data to prevent data losses, and Blackfin's high-speed 480 Mb/s USB 2.0 connection streams live (30 FPS at 1.3MPixels) pre-processed video to a host PC. Meanwhile, the Blackfin's system-level 8/16-bit Host DMA Interface speeds data movement through the system.

Incorporating a Blackfin, with its ability to support the required advanced image-processing intelligence in the camera itself, off-loads computational cycles from the host PC, allowing the application to focus on its responsibility for image or streaming data acquisition and analysis. The device's USB connectivity and low power consumption facilitate camera mobility and eco-friendliness by providing standalone independence from external power supplies, using only the power from the USB. The processor's standard serial connections (multiple on-chip SPORT, SPI, UART, TWI and CAN interfaces) let the camera make optional glue-less connections to off-chip devices including a full range of application-specific industrial interfaces.

A typical medical application is the use of a Camelot™ camera in a new hand-held medical diagnosis device for detecting Malaria that reduces user error resulting in lower misdiagnosis and improved treatment.

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About Imaging Diagnostics Ltd.

For more than 15 years, the management team of Imaging Diagnostics (www.imaging2d.com) has provided embedded imaging solutions for a wide range of machine vision applications. Founded by the BDR Group, a successful technology incubator, Imaging Diagnostics has become an established R&D and production center experienced in hardware and software development and onsite manufacturing. Imaging Diagnostics is dedicated to creating individualized, high quality, and affordable vision solutions that outperforms market standards.

About Kane Computing Ltd.

Kane Computing Ltd (KCL) (www.kanecomputing.co.uk) is a specialist consultant and reseller of advanced computing technology, development systems and software with particular emphasis on Digital Signal Processing (DSP) from Texas Instruments and FPGA from Xilinx and Altera. KCL is the UK Distributor for Sundance and a number of other hardware suppliers and is also a Texas Instruments Third Party Partner for development tools and consultancy. KCL has a policy of continual improvement and operates its business in accordance with the requirements of ISO9001:2000. KCL is also approved under the Investors in People programme.

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