

Lightning® RDTPlus™ High Speed Digital Camera

Kane Computing are now shipping DRS's Lightning® RDTPlus™ (Research, Design and Test) camera. The RDTPlus™ combines high-speed digital video, intuitive camera control software and powerful analytical functions with the capabilities of a standard PC to provide an integrated, high-speed imaging system with sufficient performance and flexibility to address all motion analysis requirements.

Consisting of a small camera head, detachable cable and custom frame grabber board, the Lightning® RDTPlus™ captures 512 x 512 resolution images at 5,000 full frames per second (fps). A blazing 100,000 fps can be achieved at reduced resolution for recording extremely rapid events.

The Lightning® RDTPlus™ features extended recording times to capture long duration events such as vehicle rollovers and missile flights. More than 13 seconds of full resolution recording at 5,000 fps are available without compression. Greater than one minute of record time can be achieved by reducing the frame rate to 1,000 fps. The ability to daisy chain multiple frame grabber boards further extends the record time.

A digital interface on the Lightning® RDTPlus™ custom frame grabber board allows the output of a continuous, real-time stream of digital image data. The digital interface is capable of streaming image data at up to 1.25 gigabytes per second—the maximum performance of the Lightning® RDTPlus™ camera.

The Lightning® RDTPlus™ is supplied with MiDAS software from Xcitex, allowing operators to perform vital motion analysis, to control up to four cameras simultaneously, and to save digital video data in different file formats including AVI, BMP, JPEG and TIFF. Optional MiDAS modules provide the synchronization of high-speed video with instrumentation data from a variety of sensors, gauges, tachometers, IRIG encoders and other devices.

The Lightning® RDTPlus™ is available with several distinct camera head configurations: monochrome, color and low-light (for light challenged environments). A single system can be purchased with multiple, interchangeable camera heads, providing the flexibility to record high-speed events in different situations.

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About Kane Computing

KCL (www.kanecomputing.co.uk) has been providing Image Processing, DSP and high performance computing products for use in industry, education and research since 1987 and is a Texas Instruments Third Party Partner specialising in consultancy and advice on TI development tools/platforms and image processing applications. KCL have extensive knowledge and experience of providing video compression solutions for many industries particularly for digital video security and high quality broadcast applications. KCL has a policy of continual improvement and operates its business in accordance with the requirements of ISO9001:2000.

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