

Press Release

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New high-speed camera HPV-2 Ultra-fast imaging from four perspectives

**For a multitude of scientific and technological applications /
Excellent image quality, high photosensitivity /
Automated synchronization of perspectives /
Vision 2009 – New Stuttgart Trade Fair Centre,
Shimadzu in hall 6, booth 6C18**

Shimadzu, one of the world-leaders in analytical instrumentation, has introduced its new HPV-2 high-speed video camera. Compared to its successful predecessor the HPV-1 version the HPV-2 version extends capabilities through new technologies and additional features. In particular, the HPV-2 can now make synchronous recordings with up to 4 cameras. This new feature enables observation of fast phenomena from several viewing angles and positions at the same time, and thus the obtaining of 3D images.

The HPV-2 is suitable for a wide range of applications in many fields of science and technology, for example, studies on hydrodynamics, destruction processes, shock wave development, visualizing machining processes and fast chemical reactions. The HPV-2 also supports applications in the life sciences, medical technology and sports science.

The HPV-2 records at up to one million frames per second (fps). Conventional high-speed video camera resolution often reduces as recording speed is increased. But the spatial resolution of the HPV-2

does not deteriorate, even at the highest frame rate. The camera maintains excellent 312 x 260-pixel resolution at all recording speeds, permitting detailed analysis of ultra-fast phenomena.

Automated synchronization of four perspectives

The HPV-2 is a PC-controlled camera. It can be linked directly via USB2 to a PC or laptop. Up to four cameras can be synchronized, either to obtain images from four different perspectives or up to 400 consecutive images.

The heart of the high-speed camera is the unique architecture of the IS-CCD chip. This chip incorporates an image storage of 100 frames of excellent quality and allows capturing of high-speed images even under weak illumination.

Dedicated software enables recording to start immediately after performing a few simple settings. Recorded images can be saved in general image formats such as JPG, BMP, TIFF and AVI.

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Caption: One of the world's fastest cameras: The HPV-2

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