

HIGH - SPEED CAMERA VIDEO SYSTEM

MotionBLITZ[®] Compact

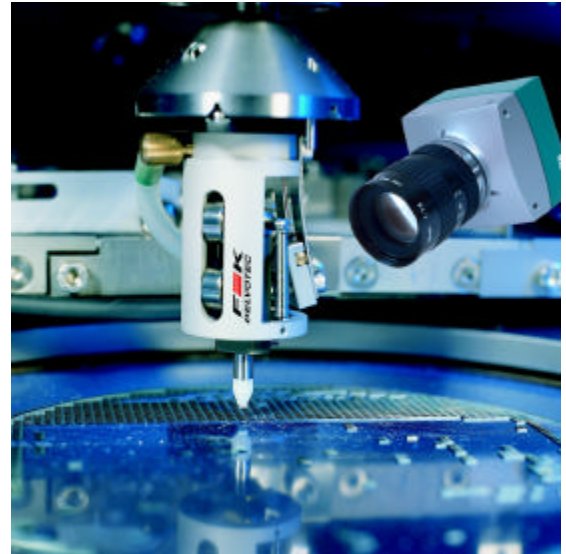
At a Glance

- Variable frame rate from 50 up to 4000 fps
- Variable resolution up to 1280 (H) x 1024 (V) pixels
- Compact, portable and immediately ready for use
- Up to three logically linked object triggers
- Storage of external digital I/O conditions
- Image storage in BMP and AVI format
- AUTO-SAVE-function for long time recording over several hours (option)

The invisible becomes visible

One picture says more than 1000 words.

Modern production processes are constantly made faster and more complex. If a fault occurs, the human eye is not able to grasp and analyse the mistake. Only high-speed video recordings make the invisible visible. Such recordings enable you to reveal weak points in production and to analyse machine malfunctions immediately. That makes optimal production possible. This is only one of numerous applications for high-speed camera systems. You can find further applications in product development, quality control and research.



Modern camera technology

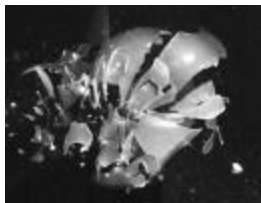
A special feature of the MotionBLITZ[®] Compact high-speed camera system is the extremely compact CMOS-camera. The CMOS-sensor allows a high data rate and the maximum resolution of 1280 (H) x 1024 (V) pixels.



Flexible in resolution and speed

Because of random programmability of window size and position (ROI) as well as clock frequency resolution and frame rate the system can be easily adapted for any specific need.

The required ROI in the maximum window size of 1280 (H) x 1024 (V) pixels can be defined by using the mouse. At the same time the system indicates the resulting frame rate. In the reverse case the system indicates the corresponding maximum resolution on the basis of the required frame rate.



Unique object triggering

For the analysis of rapidly moving, sporadic processes, the MotionBLITZ[®] Compact high-speed camera systems offer exceptional features.

The ring buffer storage makes it possible to record the history of an event and its progress. The started system records pictures continuously, until the high-speed recording is stopped by a trigger signal. Besides the usual triggering via an external signal, the MotionBLITZ[®] Compact systems have the unique option of being triggered by changes in the image. If a change occurs in the predefined window, the recording stops. Up to three such object triggers can be placed anywhere in the recorded image. They can also be logically linked.



Pixelbinning mode

If the camera is operated in the pixelbinning mode, the sensibility doubles and the window size increases.

Technical Data:

Mobile portable industrial PC with Intel® CPU consisting of the following components:

- 15 " TFT color display
- 40 GB harddisk
- CD-R/RW, 3,5" floppy disk drive
- Basic memory capacity
- One serial and one parallel interface
- 10 / 100 Mbit Ethernet interface
- Windows 98 SE operating system
- MotionBLITZ® Compact software and AVI software, installed
- High-speed b/w camera with selectable frame rate and resolution, incl. 5 m (12,7 ft) camera cable
- Lens 25 mm / F 1.4; C-Mount



MotionBLITZ® Compact500

	Frame Rate	Image Size	Number of Images	Recording Time
Basic Memory Capacity	selectable frame rate from 50 up to 500 fps	1280 x 1024 up to 440 x 290	180 (frame rate 50 fps) up to 1850 (frame rate 500 fps)	3 sec
Memory Expansion	selectable frame rate from 50 up to 500 fps	1280 x 1024 up to 440 x 290	360 (frame rate 50 fps) up to 3700 (frame rate 500 fps)	7 sec

MotionBLITZ® Compact2500

	Frame Rate	Image Size	Number of Images	Recording Time
Basic Memory Capacity	selectable frame rate from 50 up to 2500 fps	1280 x 1024 up to 180 x 150	180 (frame rate 50 fps) up to 9100 (frame rate 2500 fps)	3 sec
Memory Expansion	selectable frame rate from 50 up to 2500 fps	1280 x 1024 up to 180 x 150	360 (frame rate 50 fps) up to 18200 (frame rate 2500 fps)	7 sec

MotionBLITZ® Compact4000

	Frame Rate	Image Size	Number of Images	Recording Time
Basic Memory Capacity	selectable frame rate from 50 up to 4000 fps	1280 x 1024 up to 120 x 95	180 (frame rate 50 fps) up to 21800 (frame rate 4000 fps)	4 sec
Memory Expansion	selectable frame rate from 50 up to 4000 fps	1280 x 1024 up to 120 x 95	360 (frame rate 50 fps) up to 43600 (frame rate 4000 fps)	8 sec

Various accessories (lighting, tripods, lenses etc.) are also available !!!

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