

SPEEDCAM MacroVis

**Ultra-compact high-speed camera with
1,3 megapixels at 1.000 fps**



The extremely compact housing, the high 1.3 megapixel resolution, and the high recording rates make the **SpeedCam MacroVis** the undisputed leader in the field of high-speed cameras.

With its modular design, the camera can be assembled in a variety of configurations. The basic model is delivered optionally as a monochrome or color camera and with 2 GB of image storage for 1.6 seconds of recording time at full resolution and 1,000 fps. With numerous upgrade options, the **SpeedCam MacroVis** is an ideal tool for science and research, quality assurance, or crash tests in the automobile industry. For example, a larger 4 GB image storage, multi-sequence recording mode, and the **ImageBLITZ®** auto-trigger option are optionally available. With **ImageBLITZ®**, a region of interest (ROI) can be marked in the live image. The camera triggers automatically as soon as there is a change in the brightness in this area. With the Hi-G option, the camera is acceleration-proof up to 100 g in 3 axes.

Thanks to the ultra-compact housing and the laterally placed plug field, the high-speed camera can be mounted in many difficult-to-access places. With the integrated Gigabit Ethernet interface, the **SpeedCam MacroVis** can be operated with any Windows PC or laptop. This guarantees quick download times of image data and secure communication over long transmission distances.

The basic software included in the delivery allows simple slow-motion analysis and supports the export of the recorded sequence as a series of individual BMP images or an AVI video file. The optionally available and intuitive-to-use full version of the **SpeedCam Visart** control software offers numerous additional functions and filter options which can be set manually or automatically.

Highlights

- **1.280 x 1.024 CMOS-Sensor**
max. 1.000 fps in full resolution
up to 93.000 fps in partial resolution
free selection of resolution
in the x and y directions
- **Electronic Shutter down to 2 µs**
Fast shutter speeds prevent motion blurs
- **Gigabit Ethernet Interface**
1000/100 Ethernet guarantees extremely
short download times
Simple connection to existing Windows
computer systems
- **Integrated Battery**
Capacity for 45 minutes of recording or
90 minutes of standby operation
- **Ultra-compact dimensions**
93x69x92 mm / 3,7"x2,6"x3,6" (W x H x D)
- **Numerous upgrades available**
Multi-sequence recording
ImageBLITZ® auto-trigger function
Hi-G Option: up to 100 g in all 3 axes
More memory for longer recording times



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Specifications

CMOS-SENSOR

Sensor Array:	1.280 x 1.024 active pixels, 12 x 12 µm, color or monochrome
Image Resolution:	1.280 x 1.024 active pixels up to 1.000 fps
Dynamic Range:	10-bit (Sensor ADC), 59 dB

MEMORY AND RECORD RATES

On-Board Storage:	Ring memory 2GB (4 GB optional)
Recording Rates:	28 to 93.000 fps

CAMERA CONTROL

Shutter:	Global electronic shutter variable from 2µs to 1/frame
Resolution/Image Format:	Selectable image format on x and y axis
Recording Time:	Standard 1,6 sec at full resolution and 1.000 fps Optional 3,3 sec at full resolution and 1.000 fps
Trigger:	Selectable pre- and post trigger Optional: ImageBLITZ® self trigger

INPUT/OUTPUT

Inputs:	4 x digital (1bit), 1 x analog (digitalized 8bit)
Trigger:	External TTL Trigger and Sync-Input optocoupled
Sync-Output:	TTL-Sync-Output, Strobe Signal
Ethernet:	1000 / 100 Ethernet (Gigabit Ethernet) to RJ45

SOFTWARE

Control Software:	MacroVis-Basic Software (Optional: SpeedCam Visart)
Operating System:	Windows 2000 and Windows XP Professional
Functionality:	Camera control and file storage
Camera Systems:	SpeedCam MacroVis, SpeedCam MiniVis
Image File Formats:	BMP- and AVI format (additional formats with SpeedCam Visart)

MECHANICAL DESCRIPTION

Camera Dimensions:	93 x 69 x 92 mm / 3,7" x 2,6" x 3,6" (WxHxD), 0,9 kg / 2 lbs
Lens Mount:	C-Mount, optional F-Mount

ENVIRONMENTAL

Power Supply:	10 - 30 VDC external
Integrated Battery:	Capacity: 45 min recording / 90 min standby
Power Consumption:	15 W max
Operating Temperature:	+5°C to +45°C / 41 to 113 °F

AVAILABLE UPGRADES

On-Board Storage:	Ring memory 4 GB
ImageBLITZ®:	Auto-trigger function
Multi-sequence Recording:	Ring memory dividable into up to 16 segments of equal size including all trigger functionalities
Hi-G Upgrade:	Mechanical stability up to 100 G peak @ 25 msec in any axis
F-Mount Upgrade:	F-Mount adapter
Phoenix Interface Upgrade:	Ethernet Interface with industrial Phoenix plug

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Recording rates

RESOLUTION

1.280 x 1.024	1.000 fps
1.280 x 512	2.000 fps
1.280 x 204	5.000 fps
1.280 x 146	7.000 fps
1.280 x 102	10.000 fps
1.280 x 50	20.000 fps
1.280 x 19	50.000 fps
1.280 x 10	93.282 fps

MAX FRAME RATE

Recording time at full resolution

FRAME RATE

FRAME RATE	MEMORY	TIME
1.000 fps	2 GB	1,6 s
1.000 fps	4 GB	3,3 s
500 fps	2 GB	3,3 s
500 fps	4 GB	6,5 s
250 fps	2 GB	6,5 s
250 fps	4 GB	13,1 s
125 fps	2 GB	13,1 s
125 fps	4 GB	26,2 s

SpeedCam MacroVis Interface



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