

SpeedCam Mega Vis HS 4 (2)

High Resolution, High Speed,
Best Light Sensitivity



Highlights

- CMOS-Sensor
Samples of resolution:
2.000 x 2.000 Pixel at 2.277 fps/HS4
1.400 x 1.050 Pixel at 5.469 fps/HS2
1.000 x 1.000 Pixel at 7.039 fps
- Quantum efficiency: 50% @ peak
- 12-bit dynamics for accurately detailed recordings
- GigE & USB2.0 Interface
for fast image download
Simple incorporation into existing
MS-Windows® computer systems
- Mechanic / Ambient conditions
311 x 160 x 205 mm, 8,1 Kg
Shock: 30 G @ 11 ms in all axes
Vibration: 25 G @ 1 – 150 Hz, in all axes
- MultipleOptions
Camera Link Interface,
Image memory up to 36GB
IRIG Timestamp
HDSDI Output

The new SpeedCam MegaVis HS cameras are a breakthrough in terms of image quality with extremely high recording rates. The innovative CMOS image sensor has been tuned for extremely speed, high sensitivity (ISO speed) and maximum dynamics. Impressive shock and vibration levels to which this camera was tested and specifications made prove that high picture quality and best mechanical workmanship are no contradiction. With 30 G shock and 25 G vibration the

SpeedCam MegaVis HS is also well suited for more demanding applications. Incorporation of the camera into existing computer systems using the Gigabit Ethernet or USB 2.0 interface is extremely easy. The optional Camera Link and HDSDI interface are available for rapid data downloads. The CamControl basic software included in the delivery makes operation of this complex technology extremely easy. Users of high-speed cameras from the most diverse fields have played a major

role in the development of the software. It is clearly laid-out, intuitive, and simple to operate.

Optionally available are the Visart and Mobile Control software packets. Visart is designed for users wishing to operate several cameras simultaneously and to use the numerous image processing functions provided by the software. Mobile Control was developed specially for operation using a touch screen, enabling simple and straight forward mobile operation of the camera with an ultra-mobile PC.

SpeedCam MegaVis HS 4

TECHNICAL DATA

→ Spezifikationen

CMOS-SENSOR	
Sensor properties:	Fast CMOS-Sensor, 11 x 11 µm, monochrome
Sensor resolution:	2.000 x 2.000 Pixel up to 2.277 fps (HS4) 1.400 x 1.050 Pixel up to 5.469 fps (HS2)
Dynamic range:	12-bit monochrome, 64 dB
Light sensitivity:	1.250 - 16.000 ISO speed
RECORDING FREQUENCY AND IMAGE MEMORY	
Image memory:	Ring buffer 9 GB (16/32 GB optional)
Recording frequency:	> 100.000 fps at partial resolution
CAMERA CONTROL	
Shutter:	Electronic shutter time up to 1,5 µs
Resolution / Image Format:	Free definable (48 x 4 Pixel)
Recording time:	1,4 s at full resolution and 2.277 fps (HS4) optional up to 5,6 s at full res. and 2.277 fps
Trigger:	High-/Low-Level, multiple Trigger Modes Differential Input
Synchronisation:	Master-/Slave-Mode, jitter less then 50 ns
Network:	1000 / 100 Ethernet and USB 2.0
SOFTWARE	
Control Software:	CamControl (opt, Visart / mobile control)
Operating system:	Windows 7 / XP Professional
Function:	Camera Control and Image archiving
Image	AVI, WMV, TIFF
MECHANICAL DIMENSIONS	
Camera housing:	311 x 160 x 205 mm, 8,1 kg
Operational shock:	30 G @ 11ms, half sine wave, all axes
Operational vibration:	25 G @ 1-150 Hz, all axes
Lens mount:	F-Mount (Nikon)
AMBIENT CONDITIONS	
Power supply:	90 bis 260 VAC
Power consumption:	70 W max.
Ambient temperature:	+5°C to +40°C
AVAILABLE OPTIONS	
Image memory:	18 / 36 GB
Lens mount:	Adapter plate for C-Mount lenses
IRIG-B Modul:	IRIG-B timestamp
Interface:	Camera Link

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→ Technical Data

RECORDING SPEED (SAMPLES)	
RESOLUTION	MAX. IMAGE FREQ.
2.000 x 2.000 (HS4)	2.277 fps
1.400 x 1.050	5.469 fps
1.280 x 720	8.226 fps
1.000 x 1.000	7.039 fps
640 x 480	17.985 fps
320 x 200	46.746 fps

RECORDING TIME AT FULL RESOLUTION		
FRAMERATE	MEMORY	TIME
2.277 fps	9 GB	1,4 s
2.277 fps	18 GB	2,8 s
2.277 fps	36 GB	5,6 s



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