

# SPEEDCAM SBOC-M

*The entry into High Speed Video Analysis*



Modern automation systems are mostly designed for high production speeds; speeds which the human eye can scarcely follow. Optimal setting of system parameters is becoming increasingly difficult. Service staff is no longer in a position to simply identify mistakes in the process sequence and to deal with their cause.

Because of extreme time stretching which is reached by recordings of up to 1,000 fps, processes in machines and systems can be analysed exactly and easily optimised.

Image data recorded from the sensor is compressed directly within the camera and loaded into the ring buffer. According to the setting of the compression algorithms,

recording times of up to 40 seconds are possible in the internal ring buffer. Image data from long-term recordings can also be written directly to the hard disk of the PC.

The compact construction of the camera, simple connection to a notebook PC and uncomplicated operation make SpeedCam SBOC-M an ideal companion for servicing or commissioning automation systems.

Optional accessories specially suited for the camera include: LED lighting, lens, camera stand and notebook PC.

## Highlights

- **640 x 480 pixel**
- **Max. 185 fps at full resolution**
- **Up to 1,000 fps at reduced resolution**  
Free choice of resolution
- **Recording times**  
Depending upon compression, up to 40 seconds in the internal memory or long-term recordings on the hard disc
- **Protection class**  
IP 65  
IP67 together with protective tube
- **Ethernet Interface**  
Rapid download times through permanent hardware compression  
Simple interfacing to existing Windows® computer systems
- **Extremely small and lightweight**



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### Spezifikationen

#### General Technical Data

Type:	SBOC-M
Sens resolution:	640 x 480 pixels
Exposure time:	0.04... 1.000 ms
Frame rate (full screen):	185 fps
Sensor type:	Monochrom
Lens mount:	C-Mount, CS-Mount with protection tube

#### Electrical Data

Nominal operation voltage:	24 V DC
Permissible voltage fluctuation:	+/- 10%
Current consumption at unloaded outputs:	120 mA
Max. total current at the 24 V outputs:	1,5 A
Protection class:	IP65, IP67* (* only with protection tube)
Ethernet interface:	IEEE802.3U (100BaseT)
Connection technology plug:	M12
Data transfer speed:	100 Mbit/s
Supported logs:	TCP/IP

#### Materials

Housing:	Anodised aluminium
Cover:	Glass fibre reinforced Acryl Butadiene Styrene
Material:	Note: Free of copper and PTFE
Weight:	182g

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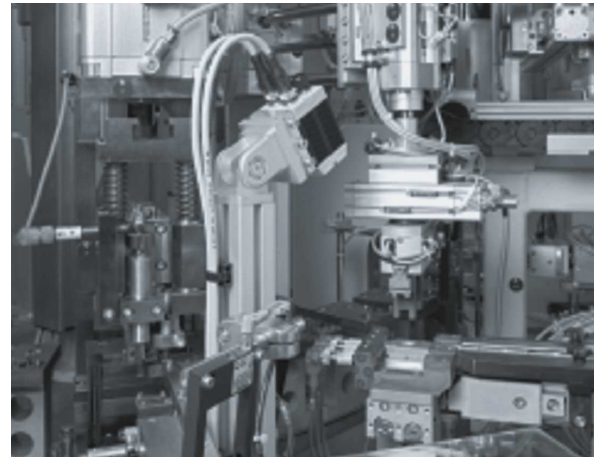


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### Examples of Use

#### Stationary mounting of the high-speed camera to increase availability of automation systems



- Continuous recording of processes in the ring buffer of the camera
- If a fault occurs, the recording will be stopped by an external signal and the record of the fault in the camera allows a cause analysis

#### Mobile operation of the high-speed camera for service and commissioning to increase productivity and availability of automation systems

- Reduction in process cycle times by evaluating standstill periods in process sequences
- Optimal coordination of the process times of individual axes of multiple systems, locating critical movements
- Time synchronised visualisation of motion processes on a PC from several sides, so that these can be managed
- Localisation of unwanted oscillation, because of which the repeat accuracy of motion processes suffers and premature material fatigue can occur

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