

### Innovative Technology for maximum light efficiency

- **Maximum photo sensitivity:**  
2,500 ASA monochrome, 2,000 ASA RGB
- **Up to 506 frames per second at**  
1,280 x 1,024 resolution
- **Stepless adjustable frame rate up to**  
113,000 frames per second at reduced resolution
- **13 seconds onboard Recording Memory**
- **GigE Vision® compatible**
- **Standalone operation up to 1 h,**  
image storage up to 24 h (Memory Stand By Mode)
- **ImageBLITZ® Auto Trigger**
- **Crashproof up to 100 g**
- **pixel-based Fixed Pattern Noise Correction**
- **Burst Trigger Mode**

#### Lighting becomes a minor matter

So far, lighting was the crucial point in high-speed recording. It caused a lot of attention and expense to be paid to this item. MotionBLITZ EoSens® Cube6 packs up the lighting issue! Its unprecedented photo sensitivity enables real high-speed recordings under normal lighting conditions.

#### Fixed Pattern Noise Correction

MotionBLITZ EoSens® Cube6 adjusts every single pixel regarding blackvalue and dynamic in real time. In consequence one gains low noise and crystal clear pictures.

#### Triggered onboard recording with history function

The MotionBLITZ EoSens® Cube6 onboard ring buffer allows buffering of triggered events up to 13 seconds at full resolution and speed. The history function allows pre and post event recording through free selection of frames or recording time.



#### ImageBLITZ® Auto Trigger

The ImageBLITZ® Auto Trigger allows objectdriven triggering directly through the camera by a selectable image region defined as sensor. A free selectable rectangle can be adjusted as trigger sensor. If there is a change in the lightness (on single frame level), the camera will trigger automatically.

#### Burst Trigger Mode (post Trigger)

In Burst Trigger mode, it is possible to divide the memory into several thousand sequences. Events can be recorded over a longer period without the data having to be read out between.

#### Dynamic Range Adjustment for extreme contrasts

The camera's Dynamic Range Adjustment option allows to change the CMOS sensor's linear range into a non-linear one. Thus, MotionBLITZ EoSens® Cube6 provides clear details even at extreme dark/light contrasts.

#### Maximum performance at minimum form factor

MotionBLITZ EoSens® Cube6 comes up with a small form factor. A housing depth of appx. 92 mm (C-Mount Version) allows universal using, even in cramped space conditions.

#### Flexible and easy use

The camera's Gigabit Ethernet® interface even allows to operate multiple cameras from any standard Notebook/PC over a distance of 100 m. Additionally images can be stored on the camera's internal ring buffer for up to 24 hours without an external power source.

#### A great variety of extensions

ImageBLITZ® Trigger, Buffer extension up to 13 seconds, multi-sequence recording, IRIG B and Hi-G are optional available.



# MotionBLITZ EoSens® Cube6 High-Speed Recording Camera

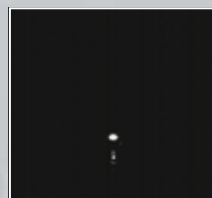
Technical Data	
Sensor	CMOS sensor 1,280 (H) x 1,024 (V) pixel active area 22.9 mm (diagonal) 17.92 (H) x 14.34 (V) mm 10-bit monochrome or RGB-color with BAYER-filter
Pixel size	14 x 14 µm
Light sensitivity	Monochrome 25 V/lux-sec 2,500 ASA monochrome, 2,000 ASA color
Image speed	1 - 506 fps* at full 1,280 (H) x 1,024 (V) resolution. Up to 113,000 fps at reduced resolution
Recording time	13 s at full resolution or 506 fps. Extended recording times at reduced resolution and/or image speed
Shutter	global electronic shutter from 2 µs to 1 s, in 2 µs steps
Internal dynamics	up to 90 dB using dynamic shutter control
Spectral bandwidth	400-900 nm
Amplification	Digital Gain 1-4 in 8 steps
System design	scaleable and network-compatible with standard- or Notebook PCs Synchronous processing of multiple cameras
Camera size	69 x 93 x 92 mm (C-Mount) 69 x 93 x 128 mm (F-Mount)
Weight	900 g, without lens
Environment	+5 ... 45 °C
Battery capacity	Recording: 1h ; standby: 1.5 hrs, data retention: up to 24 hrs (Memory Standby Modus)
Lens mount	C-Mount or F-Mount
Power supply	10 - 30 V DC external power supply, or from internal battery
Power consumption	15 W max.
Software	MotionBLITZ® Director2 operator software for Windows 2000/XP/Vista
Frame storage	BMP- or AVI file format
Camera-PC interface	1000/100 Ethernet Interface (Gigabit Ethernet)
Trigger	Triggering with external Signal, internal switch, MotionBLITZ® Software or ImageBLITZ®
Synchronisation	Synchronisation in- and output to synchronise e.g. multiple cameras (5V TTL)
Analog input	0 - 2.5 V (8-bit), inserted in each image
Digital input	4-bit with Optocouplers, inserted in each image

Standard Equipment
Burst Trigger Mode · Fixed Pattern Noise Correction Dynamic Range Adjustment · onboard Ring Buffer · C-Mount Front power supply · operator software

Optional Extensions				
Ring buffer extension to 13 s recording time at full resolution & speed	ImageBLITZ® Auto Trigger	Multi-sequence recording	Hi-G 100 g Shock 100 g/25 msec Vibration 10 g	IRIG B Synchronization

Recording Data			
Resolution	Frame Rate	Resolution	Frame Rate
1,280 (H) x 1,024 (V)	506 fps	512 (H) x 512 (V)	2,040 fps
1,280 (H) x 720 (V)	718 fps	320 (H) x 240 (V)	5,672 fps
1,280 (H) x 512 (V)	1,008 fps	100 (H) x 100 (V)	19,731 fps
640 (H) x 480 (V)	1,869 fps	100 (H) x 10 (V)	81,512 fps

\* fps = frames per second



Standard High-Speed



EoSens®



EoSens®-Dynamic Range Adjustment

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