The optionally available ImageBLITZ® Automatic Trigger even goes a step further: it enables an object generated triggering directly through the camera using a selectable section of the RoI as a sensor.

Maximum Performance at Minimum Form Factor

The MotionBLITZ® Cube4 comes with the smallest form factor ever for a high-speed recording camera of this capability. A housing depth of approx. 92 mm (C-Mount version) allows the MotionBLITZ® Cube4 to be utilized in an unrivalled manner even in cramped space conditions.

GigE Vision: Total Flexibility at High Transfer Rates

The MotionBLITZ® Cube4 Gigabit-Ethernet interface allows camera operation from any standard PC or Notebook at transfer rates of up to 1,000 MBit/s. Fitted with a ruggedized Phoenix industrial plug, the Cube4 is designed for operation under demanding industrial conditions.

A Great Variety of Extension Options

Get exactly the camera you need: MotionBLITZ® Cube4 offers an extensive range of all-purpose options. Many options from ring buffer upgrade to ImageBLITZ® Automatic Trigger or Multi Sequence recording are available. The Hi-G option provides the durability for crash tests and explosion observations.

Standard Equipment

- 3.0 s onboard Ring Buffer
- C-Mount front
- Internal battery power supply
- Operator software
- Ethernet cable 3 m

Optional Extensions

- Ring Buffer extension up to 6.5 s recording time at full resolution and full speed
- ImageBLITZ® Automatic Trigger
- Multi Sequence Mode
- F-Mount front
- Hi-G 100 g shock, 10 g vibration
- IRIG B synchronisation
- Industrial standard Phoenix Interface Plug

Resolution and corresponding frame rate

1,280 (H) x 1,024 (V)	1,000 fps
1,280 (H) x 512 (V)	2,000 fps
1,280 (H) x 204 (V)	5,000 fps
1,280 (H) x 146 (V)	7,000 fps
1,280 (H) x 102 (V)	10,000 fps
1,280 (H) x 50 (V)	20,000 fps
1,280 (H) x 19 (V)	50,000 fps
1,280 (H) x 10 (V)	93,282 fps

Technical Data

(More detailed specifications are available on request)

	MotionBLITZ® Cube4
Sensor	Fast CMOS Sensor, 1,280 (H) x 1,024 (V) pixel 8-bit monochrome
Pixel size	12 x 12 µm
Light sensitivity	1,600 bit/lux-sec at 550 nm, Vref = 1V
Image speed	28 – 1,000 fps at full 1,280 (H) x 1,024 (V) resolution, up to 93,000 fps at reduced resolution
Recording time	3.24 s at full resolution and 1,000 fps, Extended recording times at reduced resolution and/or image speed
Shutter	Global Electronic Shutter from 2 µs to 1/ frame rate
Sensor dynamic	59 dB
Spectral bandwidth	400 – 800 nm
System design	Scaleable and network-compatible with standard PCs or Notebooks
Camera size	69 x 93 x 92 mm (C-Mount) 69 x 93 x 128 mm (F-Mount option)
Weight	900 g, without lens
Camera body temperature	+5 … 45 °C
Battery capacity	Recording mode 1 h, Standby mode 1.5 hours
Lens mount	C-Mount or F-Mount
Power supply	10.5 – 24 V DC external power supply, or from internal battery
Power consumption	15 W max.
Software	MotionBLITZ® Director operating software for Windows™ 7/ 2000 / XP
Frame storage	BMP and AVI file format
Camera-PC interface	Gigabit Ethernet interface
Trigger	Trigger- and Sync. Input, opto coupled
Sync. Output	TTL-Sync., Strobe Signal
Digital input	4-bit (TTL)

fps = frames per second

MIKROTRON GmbH

MIKROTRON is a renowned manufacturer of small and robust high-speed cameras on the international industrial image processing market. Due to their outstanding performance characteristics the cameras are perfectly suited for usage in industrial and scientific applications, as well as in sports analysis, advertisements or documentaries.

Germany
Landshuter Str. 20-22
D-85716 Unterschleissheim
Phone: +49(0)89-726342-00
E-Mail: info@mikrotron.de
Web: www.mikrotron.de

North America
14032 Hermosillo Way
US-Poway, CA 92064
Phone: +1-858-774-1176
E-Mail: steve.ferrell@mikrotron.de
Web: www.mikrotron.de