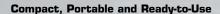
Compact High Speed Buffer Camera MotionBLITZ® Cube1 / Cube2

Visualize the Invisible

A picture tells a story. What do 500 or 1.000 pictures tell about a second's event? Modern machines and production processes are too fast for visual analysis with the naked human eye. High speed video extends a second to a minute - providing insight that helps to immediately understand what's going on. No more guessing and trying.

See - know - act ...and win. Slow motion provides competitive advantages through faster, better understanding of fast processes. Faster progress is seen in R&D, engineering, production, quality assurance and maintenance.

- Inspection/monitoring of fast running machine parts
- Optimization of production machines
- **Analysis of explosively processes**
- Shock and vibration analysis
- Material testing, crash testing, quality control
- Movement analysis, ergonomics, sports



Any existing Gigabit Ethernet LAN can be used to connect MotionBLITZ® Cube to a standard PC or notebook. Also, operating of multiple cameras simultaneously from one or more stations is possible. The compact size of the camera, combined with the internal battery backup makes MotionBLITZ® Cube ideal for mobile and standalone use. With Mikrotron's user-friendly software, MotionBLITZ® Cube is easily installed and operated. Just one click gives you a live image for adjustment, or starts recording while you monitor the object on screen.

Flexible In Resolution and Speed

Free selection of Rol (Region of Interest) and frame rate enables the system to flexibly match any given recording situation. A few mouse clicks let you adjust the image sector to capture just as much as you need, at the required speed to see it sharp. A background maximizer calculates and sets best speed per Rol-size or best Rol per selected speed.





Triggering with History Function

Once started, the system records continuously to the image FIFO-buffer. The trigger signal starts the finishing process of the recording sequence. The history function lets the buffer keep a set number of frames in memory and fill the rest with post-trigger recording. Thus you can learn what made things happen that way. History size can be set from 0 to 100% of recording time. Archivation can be in standard BMP or AVI-file format on the hard disk of the connected PC.

Cube2 even goes one step further: its ImageBLITZ® feature allows object generated triggering by a selectable part of the Rol used as sensor.

- Cube1 up to 1,000 fps * at full 640 x 512 Res.
- Cube2 up to 500 fps* at full 1280 x 1024 Resolution; up to 45,000 fps *at reduced Resolution
- Frame Rate and Resolution Adjustable
- Recording Time up to 3 / 6s at Maximum Resolution
- Internal Rechargeable Battery for Standalone Use
- Large Trigger and Recording Operations
- Optional ImageBLITZ® Self-Trigger
- Gigabit Ethernet Interface
- Image Archiving in BMP and AVI File Format
- Windows™ Based Installation and User Interface Software and Documentation

*fps: frames per second



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Model Types Cube1 (640 x 512, frame rate up to 1,000 fps)

Model Type	Monochrome/ Color	Recording Time at 640 x 512, 1,000 fps*	Photo sensivity accordant	ImageBLITZ [®] Option	Hi-G Option (100G)
MotionBLITZ [®] Cube1-3	М	3.3 sec.	200 ASA	Yes	-
MotionBLITZ® Cube1-6		6.5 sec.		Yes	-
MotionBLITZ® Cube1-3C	С	3.3 sec.	160 ASA	Yes	-
MotionBLITZ® Cube1-6C		6.5 sec.		Yes	-

Model Types Cube2 (1,280 x 1,024 at 500fps, up to 46,000 fps* at reduced resolution)

- P	Monochrome/ Color	Recording Time at 1,280 x 1,024, 500 fps*	Photo sensivity accordant	ImageBLITZ [®] Option	Hi-G Option (100G)
MotionBLITZ [®] Cube2-3	М	3.3 sec.	200 ASA	Yes	Yes
MotionBLITZ® Cube2-6		6.5 sec.		Yes	Yes
MotionBLITZ® Cube2-3C	С	3.3 sec.	160 ASA	Yes	Yes
MotionBLITZ® Cube2-6C		6.5 sec.		Yes	Yes

Technical Data:

	Cube1	Cube2			
Max Resolution	640(H) x 512(V)	1,280(H) x 1,024(V)			
Selectable Recording Rates	68-1000 fps*	12-45.000 fps* (Over 500 fps at reduced resulution)			
Shutter Speed	Global Electronic Shutter from 1/40s to 1/250,000s	Global Electronic Shutter from 1/20s to 1/250.000s			
Sensor	RGB color with BAYER filter or monochrome				
Camera Size	94 x 70x 110 mm (W x H x L)				
Weight	980 g (2.16 lbs.), without lens, incl. battery set				
Operating Temperature	+ 545°C [41 – 113°F]				
Battery Capacity	Recording mode: ca. 30 minutes; standby mode: ca. 1 hour				
Lens Mount	Standard C-Mount, optional Nikon / F-Mount with adapter				
Power Supply	10.5 - 24 V DC external power supply, or from internal battery				
Software	$\textbf{MotionBLITZ}^{\circledR} \ \textbf{Director operating software for Windows}^{\intercal}$	2000/XP			
Frame Storage	BMP and AVI - file format				
Camera Input/ Outputs					
Camera-PC Interface	1000 /100 Ethernet interface (Gigabit Ethernet)				
Trigger and Synchronisation	Trigger- and Sync. Input, opto coupled				
Sync. Output	TTL-Sync., Strobe Signal				
Analog Input	O - 2,5 V (8-Bit)				
Digital Input	4-Bit (TTL)	Unit(D) 27 E			

*fps: frames per second

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