Maximum Performance at Minimum Form Factor

The camera head of the MotionBLITZ® CVR comes up with a small form factor. The small footprint of approx. 80 x 53 mm (C-Mount version) allows an easy handling, even in cramped conditions while the recording station can be up to 20 m away. The recoding station is equally compact with 44 x 35 x 24 cm.

Onboard Ring Buffer (Pre-/Post-Trigger)

The onboard Ring Buffer allows buffering of triggered events up to 12 seconds at full resolution and full speed. Freely adjustable pre or post triggered recording settings capture the events as they happen.

ImageBLITZ® Automatic Trigger

The ImageBLITZ® Automatic Trigger allows image driven triggering directly through the camera by a user defined image region. This image area can be defined and calibrated as trigger sensor. A change in the brightness, checked in every frame, will trigger the LTR or record an event.

Standard Equipment

- Recording station
- 4 MP camera (EoSens® 4CXP)
- 12.0 s onboard Ring Buffer
- 2 TB storage capacity
- Burst Trigger Mode
- FPN Correction
- C-Mount front
- Memory Standby Mode
- operator software
- CoaXPress cable 5 m
- Multi interface board

Optional Extensions

- ImageBLITZ® Automatic Trigger
- Color version
- F-Mount front
- 10/20 m cable
- Multi Sequence Mode
- No-Moving Parts

MotionBLITZ® Director2 Software Features

- Set-up assistance with life images
- Record and trigger settings
- View and edit functions
- Image correction
- Marker and comment functions
- Freely adjustable grid
- Export in different formats
- Image data attached to each frame
- Multi-sequence recording, external triggered
- Multiple sync and trigger options

Technical Data

(More detailed specifications are available on request)

	MotionBLITZ® CVR
Sensor	CMOS sensor 2,336 (H) x 1,728 (V) pixel Active area 20.34 mm (diagonal) 16.35 (H) x 12.10 (V) mm, 8-bit monochrome or RGB-color with BAYER-filter
Pixel size	7 x 7 µm with micro lenses
Light sensitivity	3,200 ASA monochrome, 2,400 ASA RGB-color, monochrome 11 V/lux-s
Image speed	1 – 560 fps at full 2,336 (H) x 1,728 (V) resolution, up to 35,000 fps at reduced resolution
Recording time	12.0 s at full resolution and full speed extended recording times at reduced resolution and/or frame rate
Shutter	global electronic shutter from 2 µs to 1 s, in 2 µs steps
Spectral bandwidth	350 – 850 nm
Amplification	Digital Gain 1 – 4 (8-bit modes)
Camera size	80 x 80 x 53 mm (C-Mount) 80 x 80 x 81 mm (F-Mount)
Camera weight	450 g, (C-mount) without lens
Recording station	36 x 36 x 15 cm
Temperature	+5 … 50 °C (ambient)
Lens mount	C-Mount or F-Mount
Power supply	100 – 240 V, 50 – 60 Hz
Power consumption	250 W max.
Software	MotionBLITZ® Director2 operator software for Windows® 7 / XP 64-bit
Frame storage	BMP, JPG, TIFF, AVI, DNG, PNG and REC (MIKROTRON proprietary raw) file format
Camera-PC interface	CoaXPress®
Trigger	triggering with external signal (TTL), internal switch, software trigger or ImageBLITZ® Automatic Trigger
Synchronisation	in- and output to synchronize multiple systems or trigger any external devices (5V TTL) alternative ARM output (recording state)
Digital input	8 channels with optocouplers (TLL), inserted in each image

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.

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