

# MotionBLITZ® Director2 Kit

Cost-Efficient High-Speed Recording System



EoSens

## MotionBLITZ® Director2 Kit Advantages at a Glance:

- Camera with CMOS sensor monochrome or color
- Available with EoSens® CL (MC1362/63) or EoSens® 3CL (MC3010/11)
- Adjustable frame rate up 35,000 fps (depending on selected resolution)
- Variable resolution
- Recording start and stop from an external trigger
- Up to 3.2 seconds Recording Memory at full resolution and full speed
- Windows® based Director2 operator software (64-bit only)
- Image storage in BMP, JPG, TIFF, AVI, PNG and DAT (MIKROTRON proprietary raw) file format

## Visualize the invisible

High-speed recording cameras deliver fast results in many areas of industrial and scientific development and research. With high-speed video images, the analysis and optimization of processes is substantially simplified; errors are quickly detected and can be eliminated.

The MotionBLITZ® Director2 Kit is a compact high-speed recording system. It is ideal wherever a powerful analytical tool is required:

- Analysis of fast moving or explosive events
- Movement of fast running machine parts testing
- Optimization of production machines
- Testing of explosive-like processes
- Shock and vibration analysis
- Material testing
- Quality control, quality assurance

### Easy Installation and Operation

The MotionBLITZ® Director2 Kit is a high-speed recording system for capturing high-speed digital images on the PC. It consists of a very compact high-speed CMOS-camera, PCIe frame grabber, cable, power supply and operator software. System operation is easy with the Windows® based MotionBLITZ® Director2 operator software.

### Flexible in Resolution and Speed

The software allows user-defined programmability of the window size and position (RoI) as well as the frame rate. Thus, the system can be easily adapted to meet any specific need.

### Triggering of Sporadic Events

For the analysis of rapidly moving, sporadic events, the system offers all the necessary characteristics. The Ring Buffer allows for a buffering of triggered events of up to 3.2 seconds at full resolution and full speed. The pre- or post-trigger position is freely adjustable.

### Maximum Performance at Minimum Form Factor

The MotionBLITZ® Director2 Kit even allows the camera to have a small form factor. The ultra compact housing allows for universal use, even in cramped spaces.

#### Standard Equipment

- Camera
- C-Mount front
- Frame Grabber
- Signal cable
- IO cable
- Camera power supply
- Operator software

### Technical Data

(More detailed specifications are available on request)

|                         | MotionBLITZ® Director2 Kit   |
|-------------------------|--|
| Sensor                  | RGB-color with BAYER-filter or 8-bit monochrome  |
| Recording time          | up to 3.2 s at full resolution and full speed (MC 1362/63), extended recording times at reduced resolution and/or frame rate |
| Shutter Speed           | 1 µs to 1 s, in 2 µs steps   |
| Amplification           | Digital Gain 1 – 4 in 8 steps (MC 1362/63)   |
| Camera size             | approx. 63 x 63 x 54 mm (C-Mount)  |
| Weight                  | 300 g  |
| Camera body temperature | + 5 ... 50 °C  |
| Lens mount              | C-Mount or F-Mount   |
| Power supply            | 8 – 24 V DC external power supply  |
| Frame Grabber           | PCIe board   |
| Software                | MotionBLITZ® Director2 operator software for Windows® 7 / XP (64-bit only)   |
| Frame storage           | BMP, JPG, TIFF, AVI, PNG and DAT (MIKROTRON proprietary raw) file format   |
| Camera Cable            | max. 10 m  |
| Trigger                 | triggering with external signal/switch or MotionBLITZ® Director2 operator software or keyboard                               |
| Trigger Interface       | 5 V TTL via Optocoupler  |

#### Resolution and corresponding frame rate / recording times

|                       | MC 1362/63 |       | MC 3010/11 |       |
|-----------------------|------------|-------|------------|-------|
| 1,680 (H) x 1,710 (V) | –          | –     | 285 fps    | 2.6 s |
| 1,280 (H) x 1,024 (V) | 506 fps    | 3.2 s | 604 fps    | 2.7 s |
| 800 (H) x 600 (V)     | 1,258 fps  | 3.5 s | 1,407 fps  | 3.1 s |
| 640 (H) x 480 (V)     | 1,869 fps  | 3.6 s | 2,327 fps  | 3.0 s |
| 560 (H) x 320 (V)     | 3,030 fps  | 3.9 s | 3,708 fps  | 3.2 s |
| 320 (H) x 240 (V)     | 5,672 fps  | 4.9 s | 7,436 fps  | 3.7 s |
| 160 (H) x 100 (V)     | 17,612 fps | 7.6 s | 24,204 fps | 5.2 s |
| 160 (H) x 40 (V)      | 35,000 fps | 9.5 s | 35,000 fps | 9.5 s |

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.

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