



# MotionBLITZ® LTR L-Series

Long Time Recording Systems



## MotionBLITZ® LTR L-Series Advantages at a Glance:

- Fully integrated high-speed recording system
- Adjustable frame rate up to 20,000 fps
- More than two hours of recording time
- Remote head for easy placement
- All video securely stored for immediate access

## MotionBLITZ® Director2 Software Features:

- Flexible and easy to use
- Direct access to all camera features
- Extensive marker and comment functions
- Multiple export options to stills and video formats
- ImageBLITZ® automatic trigger
- I/O management for trigger and marker
- Image processing functions

## Continuous Monitoring for Optimizing Procedures

To capture multiple events and analyze changes over a longer period of time, the MIKROTRON MotionBLITZ® LTR Long Time Recorders allow detailed insights into fast processes – not only for a couple of seconds, but also for more than two hours. Long-term processes, whole series of tests and unexpected events or very fast successive single events can be recorded in their entirety at full resolution. The unique combination of high-speed and long time recording provides a tremendous amount of data for further analysis. The recorded images are stored directly on a RAID protected drive array, therefore eliminating any download times. All material is immediately available for further processing after the recording has finished.

## FIELDS OF APPLICATION

### Application Examples

- Production environment
- Industrial
- Machine optimization
- Scientific tests
- Animal studies
- Sports



### Tasks at a Glance

- Process monitoring
- Trouble shooting
- Rapid event capturing
- Sport analyses
- Assembling stations
- Long time analyses
- Monitoring of handling processes



**Technical Data**

(More detailed specifications are available on request)

| MotionBLITZ® LTR L-Series |   |               |
|---------------------------|---|---------------|
|                           | Portable (PSL)  | Desktop (SSL) |
| Camera                    | EoSens® CL (MC1362) (monochrome)  |               |
| Image speed               | Up to 253 frames per second at 1,280 (H) x 1,024 (V) pixels resolution, (8-bit)   |               |
| Light sensitivity         | 2,500 ASA monochrome, 2,000 ASA RGB   |               |
| Lens mount                | C-Mount   |               |
| Digital input             | 8 channels with optocouplers (TTL)  |               |
| Synchronisation           | in- and output to synchronize multiple systems<br>or trigger any external devices (5V TTL) alternative ARM output (recording state) |               |
| Power supply              | 100 – 240 V, 50 – 60 Hz   |               |
| Operating temperature     | +5 ... 35 °C  |               |
| Camera-PC interface       | Full CameraLink®  |               |
| Camera size               | 63 x 63 x 47 mm (C-Mount), 63 x 63 x 74 mm (F-Mount)  |               |
|                           | DVD-writer, USB 3.0, eSATA, Gigabit Ethernet interfaces   |               |

**Recording times**

|         |   |   |
|---------|---|---|
| 46 min  | S | S |
| 90 min  | O | O |
| 110 min | - | O |
| 170 min | O | - |

**Camera cable lengths**

|      |   |
|------|---|
| 5 m  | S |
| 10 m | O |

**Optional extensions**

|                               |   |
|-------------------------------|---|
| EoSens® CL color (MC1363)     | O |
| F-Mount                       | O |
| ImageBLITZ® Automatic Trigger | O |
| Non moving parts              | O |

|                |                 |                 |
|----------------|-----------------|-----------------|
| Housing size   | 44 x 35 x 24 cm | 36 x 36 x 16 cm |
| Housing weight | 17 kg           | 11 kg           |
| Display size   | 17"             |                 |

**Resolution and corresponding frame rate**

|               |           |
|---------------|-----------|
| 1,280 x 1,024 | 253 fps   |
| 1,280 x 720   | 350 fps   |
| 1,024 x 768   | 400 fps   |
| 800 x 600     | 620 fps   |
| 640 x 480     | 930 fps   |
| 480 x 320     | 1,710 fps |
| 320 x 240     | 2,830 fps |
| 160 x 100     | 8,800 fps |

S = Standard; O = Optional; - = not available; 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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