

MotionBLITZ® LTR1 Long Time Recording System

High-Speed long time recording up to 220 minutes

- Complete system for long time recording applications
- Up to 220 minutes recording time at full speed and full resolution
- Up to 285 frames per second at 1,696 (H) x 1,710 (V) pixels resolution - MC 3010/11
- Up to 506 frames per second at 1,280 (H) x 1,024 (V) pixels resolution - MC 1362/63
- Maximum photo sensitivity: 2,500 ASA monochrome, 2,000 ASA RGB
- Stepless adjustable frame rate up to 35,000 frames per second at reduced resolution
- Lossless recording without compression
- Windows® 7 based Director2 operator software
- Image storage in BMP, AVI, TIFF, DNG, JPG, PNG and REC (Mikrotron proprietary raw) file format
- Quad Mode: 4 x speed or recording time (not available for MC 3010/11)

High-speed video long time recording systems deliver fast results in many areas of industrial and scientific development and research. High-speed video simplifies the analysis and optimization of processes; errors are quickly detected and can be eliminated. The MotionBLITZ® LTR1 is an all purpose system, which allows high-speed recording even in long time situations. Therefore it is ideal wherever a powerful analytical tool is required.

Analysis of fast moving and continuing events

- Movement of fast running machine parts testing
- Optimization of production machines
- Process testing
- Ballistic trajectory analysis
- Motion analysis
- · Quality control, quality assurance





Flexible and easy use

The MotionBLITZ® Director2 operator software allows userdefined adjusting of window size and frame rate. Thereby the system can be easily adapted for any specific need. The required Rol can be defined by using the mouse. At the same time the system indicates the maximum resulting frame rate. Different, user defined camera settings can be stored. The MotionBLITZ® Director2 software allows cutting and converting of the recorded images.

Triggered recording with history function

The Ring Buffer allows buffering of triggered events up to 220 minutes at full resolution and full speed. The history function allows pre and post event recording through free selection of frames or recording time. Triggering via 5 V TTL external signal.

Dynamic Range Adjustment

The camera's Dynamic Range Adjustment feature allows to change the CMOS sensor's linear transfer characteristic into a non-linear one. Thus, the camera provides clear details even at extreme dark/light contrasts.

Marker function

With the LTR1 marker function it is possible to set a marker in each frame. The marker is an external signal from a switch or a machine signal. The specifically marked frames can easily be accessed after the record.

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Standard Equipment

- Camera MC 1362
- Tower-PC
- Director2 operator software
- 5 m camera cable
- power supply with 5 m cable
- 55 min recording time
- external trigger interface
- 1.6 TB additional internal storage space

Optional Extensions

- Color camera (RGB)
- Camera with 3 MP resolution (MC 3010/11)
- F-Mount lens mount
- 10 m camera cable (via Copper)
- up to 1,000 m (via Fiber Link)
- SSD (Solid State Drive)
- display, keyboard, mouse
- extended recording time:
- up to 110 min, 165 min, 220 min (MC 1362/63)
- up to 88 min, 132 min, 176 min (MC 3010/11)
- longer recording times (on request)

MotionBLITZ® Director2 software features

- storable camera settings
- 8 free selectable I/Os
- gamma correction
- free adjustable grid
- RGB color picker
- selectable marking lines
- multisequence recording, external triggered
- several LTR1 adapted to synchronization
- Burst Trigger Mode
- Dynamic Range Adjustment
- Quad Mode (not available for MC 3010/11)

Comparison of the particular camera models				
Resolution	Frame Rate	Recording Time	MC 1362/63	MC 3010/11
1,696 (H) x 1,710 (V)	-	-	X	
	285	44		Χ
1,280 (H) x 1,024 (V)	506	55	X	
	604	46		Χ
1,040 (H) x 768 (V)	800	57	X	
	910	50		Х
800 (H) x 600 (V)	1,258	60	Х	
	1,407	54		Х
640 (H) x 480 (V)	1,869	63	X	
	2,084	57		X
480 (H) x 320 (V)	3,437	69	X	
	3,556	67		X
320 (H) x 240 (V)	5,672	84	X	
	5,985	79		Х
160 (H) x 100 (V)	17,612	130	Х	
	16,902	135		X

The data refer to standard memory size. Double, triple and quadruple recording times with optional memory upgrade.

* fps = frames per second

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