

MotionBLITZ® LTR CXP Series

Long Time Recording Systems



EoSens

MotionBLITZ® LTR Series Advantages at a Glance:

- Fully integrated high-speed recording system
- Adjustable frame rate up to 35,000 fps
- Up to several 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

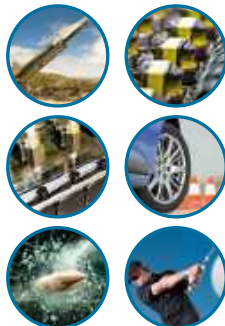
For capturing multiple events and analyze changes over a longer period of time, the long time recorders of the MIKROTRON MotionBLITZ® LTR series allow detailed insights into fast processes – not only for a couple of seconds, but also for several hours. Long-term processes, whole series of tests and unexpected 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

- Missile tracking
- Shake table studies
- Tire testing
- Material strain testing
- Machine optimization
- Scientific tests
- Animal studies
- Sports



Tasks at a glance

- Process monitoring
- Trouble shooting
- Rapid event capturing
- Sport analyses
- Long time analyses



member of the TKH Group <

MIKROTRON
High-Speed Vision Solutions

**Instrumentation
Devices**

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Technical Data

(More detailed specifications are available on request)

	MotionBLITZ® LTR1.1	
	Portable (PSL)	Desktop (RML)
Camera	EoSens® 1.1CXP2 (MC1166) (monochrome)	
Image speed	Up to 2,079 frames per second at 1,280 (H) x 864 (V) pixels resolution, (8-bit)	
Light sensitivity	6,400 ASA monochrome, 5,000 ASA RGB	
Lens mount	C-Mount	
Digital input	4 channels with optocouplers (TTL)	
Synchronisation	in- and output to synchronize multiple systems or trigger any external devices (5V TTL) alternative ARM output (recording state)	
Power supply	100 – 240 V, 50 – 60 Hz	
Camera body temperature	+5 ... 35 °C	
Camera-PC interface	CoaXPress CXP-12	
Camera size	80 x 80 x 53 mm (C-Mount), 80 x 80 x 82 mm (F-Mount)	
	DVD-writer, USB 3.0, eSATA, Gigabit Ethernet interfaces	
Recording times		
20 min		S
30 min		0
40 min		0
60 min		0
80 min		0
Camera cable lengths		
5 m		S
10 m		0
Optional extensions		
Color EoSens® 1.1CXP2 (MC1167)		0
FG-Mount		0
ImageBLITZ® Automatic Trigger		0
Non moving parts		0
Control unit size	44 x 35 x 24 cm	65 x 43 x 13,2 cm
Control unit weight	17 kg	16,4 kg
Display size	17"	No Display, No Keyboard
Resolution and corresponding frame rate		
1,280 x 864		2,079 fps
1,280 x 720		2,490 fps
1,024 x 768		2,910 fps
800 x 600		4,725 fps
640 x 480		6,576 fps
480 x 320		9,800 fps
320 x 240		12,986 fps

S = Standard; 0 = Optional; - = not available; fps = frames per second

Technical Data

(More detailed specifications are available on request)

	MotionBLITZ® LTR2.0	
	Portable (PSL)	Desktop (RML)
Camera	EoSens® 2.0CXP2 (MC2066) (monochrome)	
Image speed	Up to 1,120 frames per second at 1,920 (H) x 1,080 (V) pixels resolution, (8-bit)	
Light sensitivity	6,400 ASA monochrome, 5,000 ASA RGB	
Lens mount	C-Mount	
Digital input	4 channels with optocouplers (TTL)	
Synchronisation	in- and output to synchronize multiple systems 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	CoaXPress® CXP-12	
Camera size	80 x 80 x 53 mm (C-Mount), 80 x 80 x 82 mm (F-Mount)	
	DVD-writer, USB 3.0, eSATA, Gigabit Ethernet interfaces	
Recording times		
20 min	S	
30 min	O	
40 min	O	
60 min	O	
80 min	O	
Camera cable lengths		
5 m	S	
10 m	O	
Optional extensions		
Color EoSens® 2.0CXP2 (MC2067)	O	
FG-Mount	O	
ImageBLITZ® Automatic Trigger	O	
Non moving parts	O	
Control unit size	44 x 35 x 24 cm	66 x 43 x 13,2 cm
Control unit weight	17 kg	16,4 kg
Display size	17"	No Display, No Keyboard
Resolution and corresponding frame rate		
1,920 x 1,080	1,120 fps	
1,280 x 1,024	1,760 fps	
1,280 x 720	2,500 fps	
1,024 x 768	2,967 fps	
800 x 600	4,026 fps	
640 x 480	5,020 fps	
480 x 320	7,480 fps	
320 x 240	9,910 fps	

S = Standard; O = Optional; - = not available; fps = frames per second

Technical Data

(More detailed specifications are available on request)

	MotionBLITZ® LTR3.0		
	Portable (PSF)		Desktop (RMF)
Camera	EoSens® 3CXP (MC3082) (monochrome)		
Image speed	Up to 566 frames per second at 1,696 (H) x 1,710 (V) pixels resolution, (8-bit)		
Light sensitivity	1,200 ASA monochrome, 1,000 ASA RGB		
Lens mount	C-Mount		
Digital input	4 channels with optocouplers (TTL)		
Synchronisation	in- and output to synchronize multiple systems 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	CoaXPress® CXP-6		
Camera size	80 x 80 x 53 mm (C-Mount), 80 x 80 x 82 mm (F-Mount)		
	DVD-writer, USB 3.0, eSATA, Gigabit Ethernet interfaces		
Recording times			
30 min			S
45 min			0
60 min			0
120 min			0
Camera cable lengths			
5 m			S
10 m			0
Optional extensions			
Color EoSens® 3CXP (MC3083)			0
F-Mount			0
ImageBLITZ® Automatic Trigger			0
Non moving parts			0
Control unit size	44 x 35 x 24 cm		66 x 43 x 13,2 cm
Control unit weight	17 kg		16,4 kg
Display size	17"		No Display, No Keyboard
Resolution and corresponding frame rate			
1,696 x 1,710			566 fps
1,280 x 1,024			1,216 fps
1,280 x 720			1,726 fps
1,024 x 768			1,967 fps
800 x 600			3,095 fps
640 x 480			4,620 fps
480 x 320			8,557 fps
320 x 240			14,900 fps

S = Standard; 0 = Optional; - = not available; fps = frames per second

Technical Data

(More detailed specifications are available on request)

	MotionBLITZ® LTR4.0	
	Portable (PSF)	Desktop (RMF)
Camera	EoSens® 4CXP (MC4082) (monochrome)	
Image speed	Up to 563 frames per second at 2,336 (H) x 1,728 (V) pixels resolution, (8-bit)	
Light sensitivity	3,200 ASA monochrome, 2,400 ASA RGB	
Lens mount	C-Mount	
Digital input	4 channels with optocouplers (TTL)	
Synchronisation	in- and output to synchronize multiple systems 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	CoaXPress® CXP-6	
Camera size	80 x 80 x 53 mm (C-Mount), 80 x 80 x 82 mm (F-Mount)	
	DVD-writer, USB 3.0, eSATA, Gigabit Ethernet interfaces	
Recording times		
20 min	S	
30 min	O	
40 min	O	
60 min	O	
80 min	O	
Camera cable lengths		
5 m	S	
10 m	O	
Optional extensions		
Color EoSens® 4CXP (MC4083)	O	
F-Mount	O	
ImageBLITZ® Automatic Trigger	O	
Non moving parts	O	
Control unit size	44 x 35 x 24 cm	66 x 43 x 13,2 cm
Control unit weight	17 kg	16,4 kg
Display size	17"	No Display, No Keyboard
Resolution and corresponding frame rate		
2,336 x 1,728	563 fps	
2,336 x 864	1,124 fps	
2,336 x 432	2,229 fps	
1,920 x 1,080	900 fps	
1,920 x 1,080	1,349 fps	
1,024 x 768	1,264 fps	
800 x 600	1,617 fps	
640 x 480	2,020 fps	
480 x 320	3,024 fps	
320 x 240	4,020 fps	

S = Standard; O = Optional; - = not available; fps = frames per second

Technical Data

(More detailed specifications are available on request)

	MotionBLITZ® LTR25.0	
	Portable (PSF)	Desktop (RMF)
Camera	EoSens® 25CXP+ (MC2588) (monochrome)	
Image speed	Up to 81 frames per second at 5,120 (H) x 5,120 (V) pixels resolution, (8-bit)	
Light sensitivity	1,600 ASA monochrome, 1,200 ASA RGB	
Lens mount	F-Mount	
Digital input	4 channels with optocouplers (TTL)	
Synchronisation	in- and output to synchronize multiple systems or trigger any external devices (5V TTL) alternative ARIM output (recording state)	
Power supply	100 – 240 V, 50 – 60 Hz	
Operating temperature	+5 ... 35 °C	
Camera-PC interface	CoaXPress® CXP-6	
Camera size	80 x 80 x 55 mm (F-Mount)	
DVD-writer, USB 3.0, eSATA, Gigabit Ethernet interfaces		

Recording times

20 min	S
30 min	O
40 min	O
60 min	O
80 min	O

Camera cable lengths

5 m	S
10 m	O

Optional extensions

Color EoSens® 25CXP+ (MC2589)	O	
FG-Mount	-	
C-Mount	-	
ImageBLITZ® Automatic Trigger	O	
Non moving parts	O	
Control unit size	44 x 35 x 24 cm	66 x 43 x 13,2 cm
Control unit weight	17 kg	16,4 kg
Display size	17"	No Display, No Keyboard

Resolution and corresponding frame rate

5,120 x 5,120	81 fps
4,096 x 3,072	160 fps
2,368 x 1,728	283 fps
2,048 x 2,048	239 fps
1,920 x 1,080	448 fps
1,280 x 720	662 fps
1,024 x 768	623 fps
832 x 600	788 fps
640 x 480	973 fps

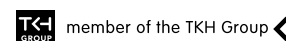
S = Standard; O = Optional; - = not available; fps = frames per second

MIKROTRON GmbH

MIKROTRON GmbH provides a full range of high-speed imaging solutions for challenging applications in industry, engineering, science and sports. The company's extreme slow-motion recording solutions enable customers to optimize manufacturing processes, improve product design, revolutionize quality management and analyze motion.

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