MotionBLITZ® LTR Compact

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Components

- EoSens® CL high-speed camera
- Portable Vision system
- MotionBLITZ® Director2 high-speed recording software
- All cables

Key Features

- Plug and play system
- 33 min recording time at 506 fps and 1.3 megapixel
- Image data stored in real time
- 17.3" Full HD TFT display
- Light-weight, silent and compact design
- Ring buffering for continuous recording
- Multiple trigger options

Engineered for Convenient Long-Time Recording

The MotionBLITZ® LTR Compact is a fully integrated high-speed recording System consisting of a remote EoSens® CL high-speed camera, a light-weight portable vision system and our proven and tested MotionBLITZ® Director2 software.

In Full Camera Link® configuration the system captures 506 frames per second with 1,280 x 1,024 pixel resolution. The minimum recording time of 33 minutes can be extended up to hours by reducing speed and / or defining an arbitrary region of interest.

To catch even the most randomly occuring incidents, the MotionBLITZ® LTR Compact supports 24/7 ring buffering. This allows you to capture a process failure even hours after machine shutdown. Alternatively the recording can be activated via the ImageBLITZ® Automatic Trigger.

The number of frames captured before and after triggering can be adjusted freely, for example enabling you to analyze both cause and effect of a process failure. The image data is stored on a RAID hard disk and is instantly ready for analysis or for further processing.

APPLICATION EXAMPLES

- Production troubleshooting
- Assembly line monitoring
- Machine optimization
- High-speed research
- Process analysis
- Quality control
- Product testing
- Sports analysis

MIKROTRON
High-Speed Vision Solutions

Instrumentation Devices

Instrumentation Devices Srl
Via Acquanera 29 - 22100 COMO (Italy)
ph +39 031 525 391- fax +39 031 507 984
info@instrumentation.it - www.instrumentation.it

Technical Data

High-Speed Camera EoSens® CL (m/c)	
Resolution	1.3 Mpix
Active pixels	1,280 x 1,024 px
Interface	Camera Link® Full
Frame rate (8 bit)	506 fps
Sensitivity (m/c)	2,500 ASA / 2,000 ASA
Mount options	C-Mount / F-Mount
Dimensions (W x H x L w/o mount)	63 x 63 x 38 mm
Weight (C-Mount)	300 g
Power consumption	5 W
Power supply	8 – 24 V DC
Cable length	5 m
Camera body temperature	+5 °C … +50 °C
Shock / Vibration proof	70 g / 7 grms
Conformity	CE / RoHS / Camera Link®
EMVA 1288 reports	

Recording System	
Display	17.3" TFT display @ 1,920 x 1,080 px
Housing	Aluminium
Dimensions (W x H x D)	418 x 352 x 186 mm
Weight	12 kg
Power supply	100 - 240 VAC / 50 - 60 Hz
Power consumption	max. 600 W
Operating temperature	+5° … + 35°C
Operating system	Windows 10 Professional 64 bit
Synchronisation (recording state)	SyncIn / TriggerIn / ARM Output
Software	MotionBLITZ® Director 2 German / English
Export Formats	BMP / JPG / PNG / TIFF / DNG (RAW format) / AVI / DAT

Record Rates and Times

Model	Portable Compact Full Speed (PCF)			
Resolution	Frame rate	Recording time		
		Standard	Upgrade 70 min	Upgrade 140 min
1,280 x 1,024 px	506 fps	33 min	70 min	140 min
1,024 x 768 px	800 fps	35 min	73 min	146 min
800 x 600 px	1,250 fps	37 min	77 min	154 min
640 x 480 px	1,860 fps	39 min	81 min	162 min
320 x 240 px	5,670 fps	51 min	106 min	212 min

Model	Portable Compact Low Speed (PCL)				
Resolution	Frame rate	Recording time			
		Standard	Upgrade 70 min	Upgrade 140 min	Upgrade 280 min
1,280 x 1,024 px	253 fps	46 min	70 min	140 min	280 min
1,024 x 768 px	400 fps	48 min	73 min	146 min	292 min
800 x 600 fps	620 fps	51 min	77 min	154 min	308 min
640 x 480 fps	930 fps	53 min	81 min	162 min	324 min
320 x 240 px	2,835 fps	70 min	106 min	212 min	424 min

Smart Features

- Quad mode
- Dynamic Range Adjustment
- Auto shutter
- Arbitrary ROI
- Ring buffering

Optional Features

- ImageBLITZ® Automatic Trigger
- IRIG-B
- Non-moving parts
- 8 m camera cable length

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 enables customers to optimize manufacturing processes, improve product design, revolutionize quality management and analyze motion.

Germany
Landshuter Str. 20-22
D-85716 Unterschleissheim
Phone: +49(0)89-726342-00
E-Mail: info@mikrotron.de
Web: www.mikrotron.de

North America
14032 Hermosillo Way
US-Poway, CA 92064
Phone: +1-858-774-1176
E-Mail: steve.ferrell@mikrotron.de
Web: www.mikrotron.de

A member of
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ph +39 031 525 391- fax +39 031 507 984
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