



MotionBLITZ® LTR Series

Long Time Recording Systems



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 <

Technical Data

(More detailed specifications are available on request)

| | MotionBLITZ® LTR1.3 | | |
|---|---|-----------------|-----------------|
| | Portable (PSF) | Desktop (SSF) | Tower (SBF) |
| Camera | EoSens® CL (MC1362) (monochrome) | | |
| Image speed | Up to 506 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 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 | 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 | | | |
| 23 min | - | S | - |
| 46 min | S | O | - |
| 90 min | O | - | - |
| 110 min | O | - | S |
| 130 min | O | - | - |
| 220 min | - | - | O |
| 440 min | - | - | O |
| Camera cable lengths | | | |
| 5 m | S | S | S |
| 8 m | O | O | O |
| Optional extensions | | | |
| EoSens® CL color (MC1363) | O | O | O |
| F-Mount | O | O | O |
| ImageBLITZ® Automatic Trigger | O | O | O |
| IRIG B | O | - | O |
| Non moving parts | O | O | - |
| Control unit size | 44 x 35 x 24 cm | 36 x 36 x 16 cm | 65 x 23 x 45 cm |
| Control unit weight | 17 kg | 11 kg | 32 kg |
| Display size | 17" | - | - |
| Resolution and corresponding frame rate | | | |
| 1,280 x 1,024 | 506 fps | | |
| 1,280 x 720 | 710 fps | | |
| 1,024 x 768 | 800 fps | | |
| 800 x 600 | 1,250 fps | | |
| 640 x 480 | 1,860 fps | | |
| 480 x 320 | 3,430 fps | | |
| 320 x 240 | 5,670 fps | | |
| 160 x 100 | 17,600 fps | | |

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

For more information please contact:



BOCK OPTRONICS INC.

14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

Technical Data

(More detailed specifications are available on request)

| MotionBLITZ® LTR3.0 Portable (PSF) | |
|---|---|
| Camera | EoSens® 3CXP (MC3082) (monochrome) |
| Image speed | Up to 560 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® |
| Camera size | 80 x 80 x 53 mm (C-Mount), 80 x 80 x 80 mm (F-Mount) |
| DVD-writer, USB 3.0, eSATA, Gigabit Ethernet interfaces | |
| Recording times | |
| 30 min | S |
| 45 min | 0 |
| 60 min | 0 |
| Camera cable lengths | |
| 5 m | S |
| 10 m | 0 |
| Optional extensions | |
| EoSens® 3CXP (MC3083) (color) | 0 |
| F-Mount | 0 |
| ImageBLITZ® Automatic Trigger | 0 |
| Non moving parts | 0 |
| Control unit size | 44 x 35 x 24 cm |
| Control unit weight | 17 kg |
| Display size | 17" |
| Resolution and corresponding frame rate | |
| 1,696 x 1,710 | 560 fps |
| 1,696 x 954 | 1,010 fps |
| 1,280 x 1,024 | 1,210 fps |
| 1,280 x 720 | 1,720 fps |
| 1,024 x 768 | 1,960 fps |
| 800 x 600 | 3,090 fps |
| 640 x 480 | 4,620 fps |
| 480 x 320 | 8,550 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) | |
|---|---|
| Camera | EoSens® 4CXP (MC4082) (monochrome) |
| Image speed | Up to 560 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® |
| Camera size | 80 x 80 x 53 mm (C-Mount), 80 x 80 x 80 mm (F-Mount) |
| DVD-writer, USB 3.0, eSATA, Gigabit Ethernet interfaces | |
| Recording times | |
| 20 min | S |
| 30 min | O |
| 40 min | O |
| Camera cable lengths | |
| 5 m | S |
| 10 m | O |
| Optional extensions | |
| EoSens® 4CXP (MC4083) (color) | O |
| F-Mount | O |
| ImageBLITZ® Automatic Trigger | O |
| Non moving parts | O |
| Control unit size | 44 x 35 x 24 cm |
| Control unit weight | 17 kg |
| Display size | 17" |
| Resolution and corresponding frame rate | |
| 2,336 x 1,728 | 560 fps |
| 2,336 x 1,314 | 740 fps |
| 2,336 x 864 | 1,120 fps |
| 2,336 x 432 | 2,240 fps |
| 1,920 x 1,080 | 900 fps |
| 1,280 x 720 | 1,340 fps |
| 1,024 x 768 | 1,260 fps |
| 800 x 600 | 1,610 fps |
| 640 x 480 | 2,020 fps |
| 480 x 320 | 3,020 fps |

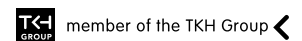
S = Standard; O = Optional; - = not available; fps = frames per second

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.

Germany
Landshuter Str. 20-22
85716 Unterschleißheim
+49(0)89-726342-00
info@mikrotron.de
www.mikrotron.de

North America
12172 Caddy Row, Ste. 100
San Diego, CA 92128 - USA
+1(0)858-521-0496
steve.ferrell@mikrotron.de
www.mikrotron.de/en





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



member of the TKH Group <

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 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 |
| 8 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

For more information please contact:



BOCK OPTRONICS INC.
 14 Steinway Blvd., Unit 7
 Toronto, Ontario M9W 6M6
 Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

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.

Germany
 Landshuter Str. 20-22
 85716 Unterschleißheim
 +49(0)89-726342-00
info@mikrotron.de
www.mikrotron.de

North America
 12172 Caddy Row, Ste. 100
 San Diego, CA 92128 - USA
 +1(0)858-521-0496
steve.ferrell@mikrotron.de
www.mikrotron.de/en



member of the TKH Group





MotionBLITZ® LTR Compact



MotionBLITZ® LTR Compact

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 occurring 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



Technical Data

| | High-Speed Camera EoSens® CL (m/c) | Recording System |
|-------------------------------------|---------------------------------------|--|
| Resolution | 1.3 Mpix | 17.3" TFT display @ 1,920 x 1,080 px |
| Active pixels | 1,280 x 1,024 px | Aluminium |
| Interface | Camera Link® Full | Dimensions (W x H x D) |
| Frame rate (8 bit) | 506 fps | 418 x 352 x 186 mm |
| Sensitivity (m/c) | 2,500 ASA / 2,000 ASA | Weight |
| | | 12 kg |
| Mount options | C-Mount / F-Mount | Power supply |
| Dimensions (W x H x L w/o mount) | 63 x 63 x 38 mm | 100 - 240 VAC / 50 - 60 Hz |
| Weight (C-Mount) | 300 g | Power consumption |
| Power consumption | 5 W | max. 600 W |
| Power supply | 8 - 24 V DC | Operating temperature |
| Cable length | 5 m | +5° ... +35°C |
| Camera body temperature | +5 °C ... +50 °C | Operating system |
| Shock / Vibration proof | 70 g / 7 grms | Windows 10 Professional 64 bit |
| Conformity | CE / RoHS / Camera Link® | Synchronisation (recording state) |
| EMVA 1288 reports | | Syncln / 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) | | | |
|------------------|-----------------------------------|----------------|----------------|-----------------|
| | 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) | | | | |
|------------------|----------------------------------|----------------|----------------|-----------------|-----------------|
| | 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

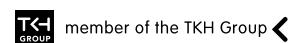
- ImageBLITZ® Automatic Trigger
- IRIG-B
- Non-moving parts
- 8 m camera cable length

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

Germany
Landshuter Str. 20-22
85716 Unterschleissheim
+49(0)89-726342-00
info@mikrotron.de
www.mikrotron.de

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





MotionBLITZ® LTR CXP Series

Long Time Recording Systems



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

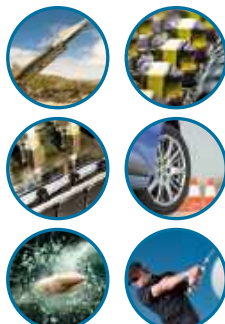
For capturing multiple events and analyze changes over a longer period of time, the long time recorders of the MIKROTRON MotionBLITZ® LTR series allow detailed insights into fast processes – not only for a couple of seconds, but also for several hours. Long-term processes, whole series of tests and unexpected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

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

For more information please contact:



BOCK OPTRONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

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

For more information please contact:



BOCK OPTRONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

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 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 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 |
| Control unit weight | 17 kg |
| Display size | 17" |
| | 66 x 43 x 13,2 cm |
| | 16,4 kg |
| | 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.

Germany
Landshuter Str. 20-22
85716 Unterschleißheim
+49(0)89-726342-00
info@mikrotron.de
www.mikrotron.de

North America
12172 Caddy Row, Ste. 100
San Diego, CA 92128 - USA
+1(0)858-521-0496
steve.ferrell@mikrotron.de
www.mikrotron.de/en

