

### 3 Megapixel High Definition – for detailed images

- **Extremely flexible in resolution and speed:**  
3 Megapixel resolution up to 525 frames per second at 1,696 x 1,710 pixel resolution
- **Stepless adjustable frame rate up to more than 200,000 frames per second at reduced resolution**
- **Maximum photo sensitivity:**  
1,200 ASA monochrome, 1,000 ASA RGB
- **1.5 seconds onboard Recording Memory at full resolution and full speed**
- **GigE Vision® compatible**
- **ImageBLITZ® Automatic Trigger**
- **Crashproof up to 100 g shock, 10 g vibration**
- **Pixel based Fixed Pattern Noise Correction**
- **Burst Trigger Mode**
- **Multi Sequence Mode**



#### Extremely flexible in resolution and speed

The MotionBLITZ EoSens® mini2 meets the requirements for most varied applications, because resolution and speed are variable adjustable. A resolution of 1,696 x 1,710 pixels ensures superb image quality with extremely sharp images. With the proven Mikrotron high-speed technology the camera takes up to more than 200,000 frames per second.

#### Fixed Pattern Noise Correction

Every single pixel is adjusted regarding blackvalue and dynamic, in real time. The benefits are low noise and crystal clear pictures.

#### Onboard Ring Buffer (pre/post Trigger)

The onboard Ring Buffer allows buffering of triggered events up to 1.5 seconds at full resolution and full speed. Free adjustable pre or post triggered recording time.

#### ImageBLITZ® Automatic Trigger

The ImageBLITZ® Automatic Trigger allows objectdriven triggering directly through the camera by a selectable image region. This image area can be adjusted as trigger sensor. If there is a change in the lightness (on single frame level), the camera will trigger automatically.

#### Burst Trigger Mode (post Trigger)

The Burst Trigger Mode allows to divide the memory into several thousand image bursts. For every event a defined number of frames will be stored.

#### 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.

#### Maximum performance at minimum form factor

MotionBLITZ EoSens® mini2 comes up with a small form factor. This ultra compact housing with a depth of approx. 63 mm (C-Mount version) allows universal using, even in cramped space conditions.

#### Flexible and easy use

The camera's Gigabit Ethernet interface allows to operate multiple cameras from any standard Notebook/PC over a distance of up to 100 m.

#### A great variety of extensions

Color version, F-Mount front, ImageBLITZ® Automatic Trigger, Multi Sequence Mode, side placed connectors, cooling option and Hi-G version are optional available.





# MotionBLITZ EoSens® mini2 High-Speed Recording Camera System

## Technical Data

Sensor	- CMOS sensor 1,696 (H) x 1,710 (V) pixel - active area 19.27 mm (diagonal) - 13.57 (H) x 13.68 (V) mm - 8-bit monochrome or RGB-color with BAYER-filter
Pixel size	8 x 8 µm with micro lenses
Light sensitivity	1,200 ASA monochrome, 1,000 ASA RGB-color, monochrome 25 V/lux-s
Image speed	1-525 fps* at full resolution, up to more than 200,000 fps at reduced resolution
Recording time	- 1.5 s at full resolution and full speed - extended recording times at reduced resolution and/or frame rate
Compression	double recording time through reduction of color depth to 4-bit = 16 greysteps
Shutter	global electronic shutter from 2 µs to 1 s, in 2 µs steps
Sensor dynamic	up to 80 dB using Dynamic Range Adjustment
Spectral bandwidth	400-900 nm
Amplification	Digital Gain 1, 1.5 & 2
System design	- scaleable and network-compatible with standard PCs or Notebooks - synchronous processing of multiple cameras
Camera size	63 x 63 x 64.5 mm (C-Mount) 63 x 63 x 94 mm (F-Mount)
Weight	280 g, without lens
Camera body temperature	+5...35 °C (without cooling option) +5...45 °C (with cooling option)
Lens mount	C-Mount or F-Mount
Power supply	10-30 V DC external power supply
Power consumption	7.5 W max.
Software	MotionBLITZ® Director2 operator software for Windows® 7/XP
Frame storage	BMP, JPG, TIFF, AVI, DNG, PNG and REC (Mikrotron proprietary raw) file format
Camera-PC interface	Gigabit Ethernet interface
Trigger	triggering with external signal/switch, MotionBLITZ® Director2 software or ImageBLITZ® Automatic Trigger
Synchronisation	- in- and output to synchronise multiple cameras or trigger any external devices (5V TTL) - alternative ARM output (recording state)
Plug position	rearside, optional side placed

## Standard Equipment

Burst Trigger Mode · Fixed Pattern Noise Correction  
Dynamic Range Adjustment · compression · 1.5 s onboard Ring Buffer  
C-Mount front · rearside placed connectors · power supply operator software · Ethernet cable 3 m

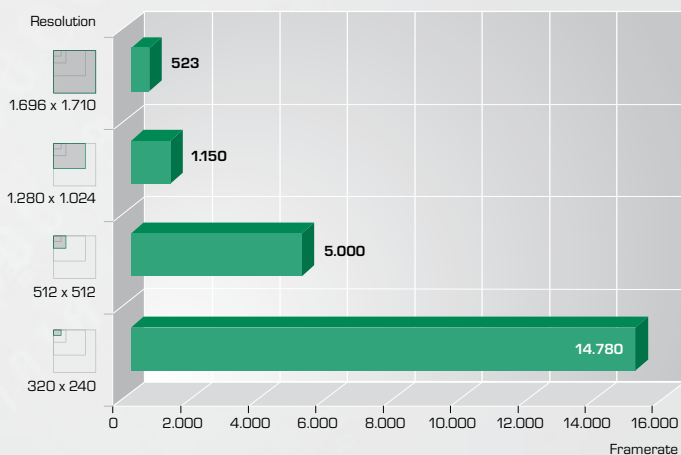
## Optional Extensions

Color version · F-Mount front · ImageBLITZ® Automatic Trigger  
Multi Sequence Mode · side placed connectors  
cooling option +5...45 °C · Hi-G 100 g shock, 10 g vibration

## Recording Data

Resolution	Frame Rate	Resolution	Frame Rate
1,696 (H) x 1,710 (V)	525 fps	640 (H) x 480 (V)	4,465 fps
1,280 (H) x 1,024 (V)	1,155 fps	512 (H) x 512 (V)	5,015 fps
1,280 (H) x 720 (V)	1,640 fps	320 (H) x 240 (V)	14,775 fps
1,024 (H) x 1,024 (V)	1,410 fps	128 (H) x 128 (V)	43,540 fps

\* fps = frames per second



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