

Mikrotron MC1319

High Speed 1,3 MPixel Colour CMOS Imaging Camera



MC1319-

Specialties

Colour Full Camera Link® Camera up to 500 full fps

The MC1319 offers superior image quality for high speed imaging and machine vision applications. 1024 greylevels and up to 500 full frames per second provide insight to assembly and production processes at high speeds. Reducing the RoI height yields proportionally increased frame rates up to over 46,000 fps at 10 lines of RoI height.



The F-Mount Lens interface allows for use of SLR lenses with perfect coverage of the MC1319s large 1 1/4" image sensor.

Application Areas

- Fast large area inspection
- Multi camera applications
- Fast light section profiling
- Fast motipn analysis
- Dynamics and load evaluation
- FAsT area scanning
- Megapixel imaging at high frame rates

Application Examples

- Fast wood, textile or metal surface inspection
 - Fast assembly and chip shooting inspection
 - Print inspection
 - Flat panel inspection
 - Glas quality inspection
 - Rolling mill surveillance
 - Paper & web inspection
 - Fast character and pattern recognition
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Technical Data MC13xx:

- ☒ CMOS progressive scan sensor
- ☒ Resolution: 1280(H) x 1024(V) Pixel
- ☒ Sensor format: 15,36(H) x 12,29(V) mm, 12 x 12 µm pixel size
- ☒ Frame rate inverse proportional to RoI height
- ☒ Free selection of image resolution and frame rate (interdependent)
- ☒ Pixel digitization: 10 Bit oder any 8 of 10 Bit
- ☒ Internal timing or externally triggered full frame shutter
- ☒ Pixel binning, horizontal und vertikal for sensitivity increase
- ☒ 9 control profiles, each including all camera control parameters
- ☒ Shock proof up to 70G/10ms
- ☒ Low power dissipation, 6.5W max.
- ☒ Compact, robust design

Technical Data MC130x:

- ☒ Frame rate: Up to 100 frames/s (fps) at full resolution
- ☒ with reduced RoI: e.g. 1.000 fps at 102 lines Roi height
- ☒ Frame grabber interface: Base Camera Link®
- ☒ Max. data rate: 132 MByte/s.
- ☒ 2 Taps (2x 8 or 2x 10 bit data transfer)

Technical Data MC1319:

- ☒ Colour sensor with BAYER filter
- ☒ F-Mount lens mount