



adept electronic

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electronic solutions**

**The Machine Vision and
Imaging Specialists**

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Optronis

Make time visible

CamRecord

CR1000x2



HIGH-SPEED VIDEO CAMERA

**Compact and light sensitive
High-Speed camera with 1000 fps**

- > **1000 fps (images/second)**
- > **Very compact housing**
- > **Resolution 1280 x 1024 pixels**
- > **Gigabit Ethernet Interface**
- > **Monochrome and color sensor**
- > **Up to 16 GB internal memory**
- > **User friendly software**

To capture movement does not mean to lose dynamics.

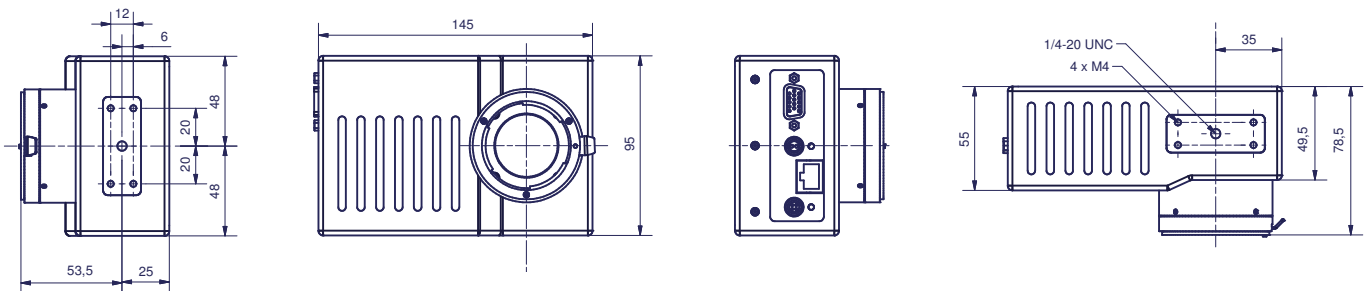
Performance (Examples)		
Framerate / second (maximum)	Resolution (H x V)	Recording Time (16 GB, max. Framerate)
1 000 fps	1280 x 1024	12 sec
2 000 fps	512 x 512	30 sec
4 000 fps	256 x 256	61 sec
8 000 fps	128 x 128	122 sec
UltraFormat Performance (Examples)		
Framerate / second (maximum)	Resolution (H x V)	Recording Time (16 GB, max. Framerate)
1 000 fps	2560 x 2048	12 sec
2 000 fps	1280 x 1024	30 sec
4 000 fps	640 x 512	61 sec
8 000 fps	320 x 256	122 sec
UltraSpeed Performance (Examples @ 10 µs exposure time)		
1 900 fps	1280 x 1024	12 sec
3 800 fps	512 x 512	32 sec

Model Overview	
CR1000x2 /options	Description
/2GB /4GB /8GB or /16GB	Memory size in GB
/M or /C	Monochrome or color sensor
/FM or /CM	Nikon F-Mount or C-Mount
/UF	UltraFormat
/US	UltraSpeed

Optional accessories	
LabView driver (Part number CR-LabView)	
Software development kit (Part number CR-SDK)	
Lenses, lights, tripod, trigger switches and more accessories on request.	

Specifications	
Resolution	1280 x 1024 pixel 2560 x 2048 pixel (UltraFormat)
Frame Rate @ Max. Res.	1000 fps 1900 fps (UltraSpeed)
Image Sensor	Progressive Scan CMOS
Exposure Time	1 µs - 1/Framerate
Active Area	15,35 mm x 12,29 mm
Sensor Diagonal Dimension	19,67 mm
Pixel Size	12 µm x 12 µm
A/D Conversion	8 Bit
Dynamic	48 dB (typ.)
Sensitivity	1600 bits / lux*second
Shutter Efficiency	global electronic shutter, min. 1 µs exposure time / > 99.9 %
Trigger Signal	TTL, switch, open collector, rising or falling edge, on image content variation
Synchronization	internal, external
Interface	Gigabit Ethernet
Video Output	VGA
Power	12 VDC / 12 W
Lens Mount	Nikon F-Mount (optional C-Mount)
Weight	1050 g
Operating Temperature	0 .. 40°C
Humidity	< 80 % relative, non-condensed
Dimensions	145 mm x 95 mm x 78,5 mm
Conformity	CE, RoHS
Scope of delivery	Camera CR1000x2, 5 m GigE cable, power supply, manual, trigger cable and CamControl software for Windows.

Connector Pin Assignment			
4-pin LEMO FGG0B304CLAD5Z			
Pin 1	Sync IN	Pin 2	Trig IN
Pin 3	GND	Pin 4	Sync OUT



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