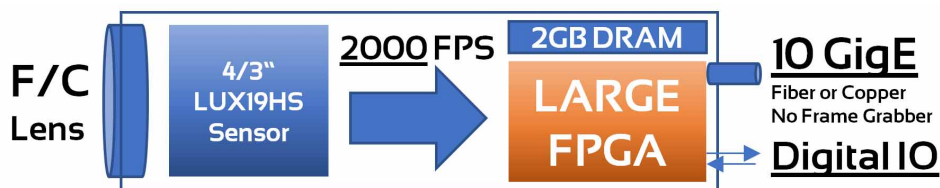
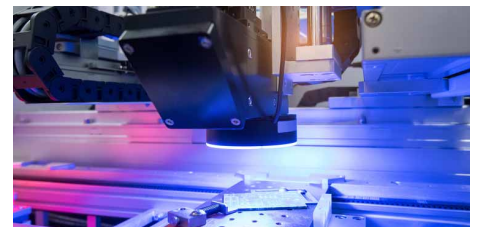


# Computer Vision 10 GigE Camera

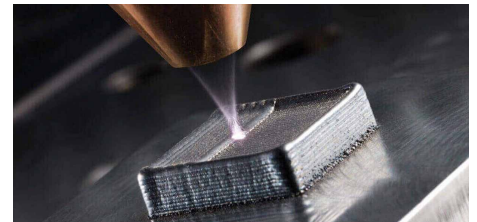
CV 2.0MP - 2000 FPS - 10GigE  
*World's Most Powerful 10GigE Camera*



## Camera Applications



Machine Vision  
Inspection & Automation



Additive Manufacturing



Industrial & Scientific Research



Military

### Best-In-Class Sensor

3x larger with 3x more sensitivity than 2/3" sensors, the 4/3" Alexima LUX19HS sensor produces best-in-class images. 2,000 HD frames/second with 10-bit precision. Using ROI, performance exceeds 90,000 frames/second.

### 1,600 DSPs for Real-Time Computations

Massive FPGA enables real-time vision processor. Available resources: 1,600 DSP slices, 329 Block RAMs, and 160K LUTs.

### 2GB DRAM On-Board Memory

2GB of DRAM enables multi-frame calculation and storage of 1,000 frames of HD data.

### 10 GigE Interface

Ditch the frame-grabber and use 10 Gigabit Ethernet. This enables less expensive CAT6a cables that can reach 100M.

### DIY or Custom OEM

Program the FPGA yourself with the HDK or have us do it for you. Watch your algorithms scream in CV 2.0 cameras!

# Concurrent GigaSens™ CV 2.0-2000-10GigE

## SPECIFICATIONS (MONOCHROME/COLOR)

Resolution	2 Mpix
Active pixels	1920 x 1080px
Interface	10 GigE Vision (SFP+)
Frame rate (8 bit)	2220 fps (full frame)
Sensor	LUX19HS
Sensor type	CMOS global shutter
Sensor format	4/3"
Active sensor area (H x V)	17.50 x 11.80 mm
Pixel size	10 x 10 µm
Sensitivity (mono)	20 V/lux*s @ 550 nm
Pixel data width	10 / 8 bit
Dynamic range	60 dB
Shutter time (steps)	1 µs
Shutter time (range)	2 µs - 1 s

Max. Trigger frequency	300 kHz
Max. Jitter via CXP Trigger	+/- 4 ns
Mount options	C-Mount / F-Mount
Input/Output	
Camera Control	Trigger In / Strobe Out
General Purpose	3 GPIO Signals
Dimensions	
(W x H x L w/o mount)	80 x 80 x 53 mm
Weight (C-Mount)	450 g
Power consumption	13W
Power supply	12 - 24 VDC
Camera body temperature	+5 °C to +50 °C
Shock / Vibration proof	70 g / 7 grms
Conformity	GenICam / CE / RoHS

### Frame rates

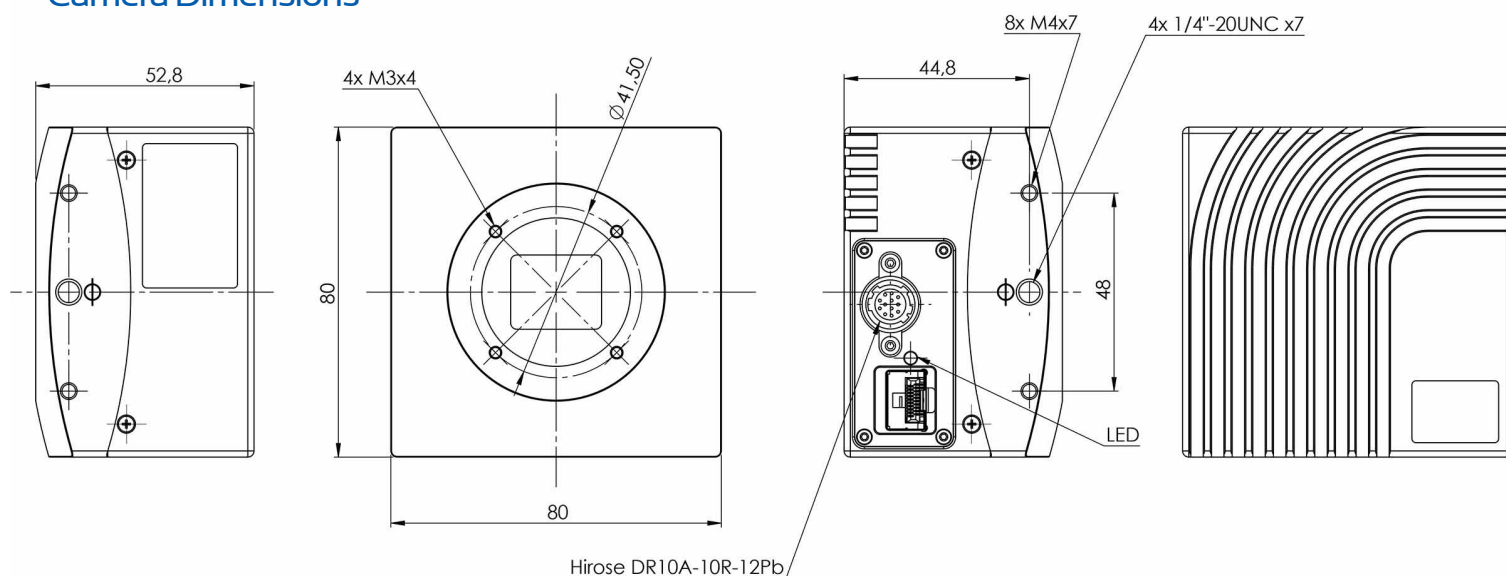
Resolution	Frame rate
1920 x 1080 px	2,220 fps
1280 x 864 px	2,350 fps
1024 x 768 px	3,120 fps
640 x 480 px	4,890 fps
128 x 128 px	16,500 fps

Max. 90,000 fps

Concurrent is a Preferred Technology Partner of

**MIKROTRON**  
High-Speed Vision Solutions

### Camera Dimensions



**GigaSens**

### CONCURRENT EDA

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