

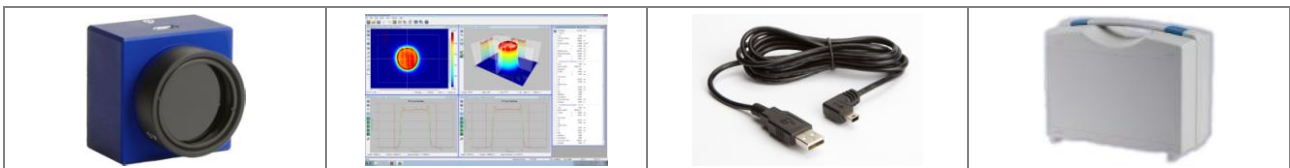


CinCam CMOS - Technical Data -

	CMOS-1201	CMOS-1202
SENSOR DATA		
Format:	1/2"	1/1.8"
Active area:	6.7mm x 5.3mm	6.8mm x 5.4mm
Number of pixel:	1288 x 1032 (1.3MPixel)	1280 x 1024 (1.3MPixel)
Pixel size:	5.2µm x 5.2µm	5.3µm x 5.3µm
Spectral response without cover glass:	(200) 350nm - 1100nm	(200) 350nm - 1100nm
Beam diameter min / max (recommended):	52µm / 4mm	53µm / 4.1mm
CAMERA FEATURES		
Mount:	Filter-Mount	Filter-Mount
Bit depth (output):	8Bit / 10Bit (on request)	8Bit
Dynamic:	>61dB (1:1120)	>62dB (1:1250)
Frame rate:	up to 25Hz	up to 25Hz
Exposure time:	100µs-1s	50µs-1s
Interface:	USB 2.0 (Mini USB-B connector)	USB 2.0 (Mini USB-B connector)
Shutter:	Rolling	Global
Mode:	cw	cw or pulsed
Trigger:	-	TTL-signal
Combinable with:	IR- / UV-Module, Beam expander, Attenuator	IR- / UV-Module, Beam expander, Attenuator
SPECIFICATIONS		
Mechanical dimensions (W x H x L):	36.5mm x 36.5mm x 24.8mm	40mm x 40mm x 24.8mm
Weight:	46g	50g
Electrical requirements:	Power supply via USB	Power supply via USB
Storage temperature*:	-10°C...+60°C	-10°C...+60°C
Operating temperature*:	+0°C...+40°C	+0°C...+40°C
Regulations:	CE, RoHS	CE, RoHS

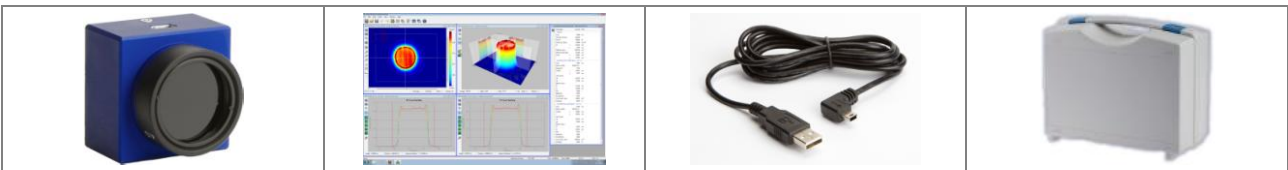
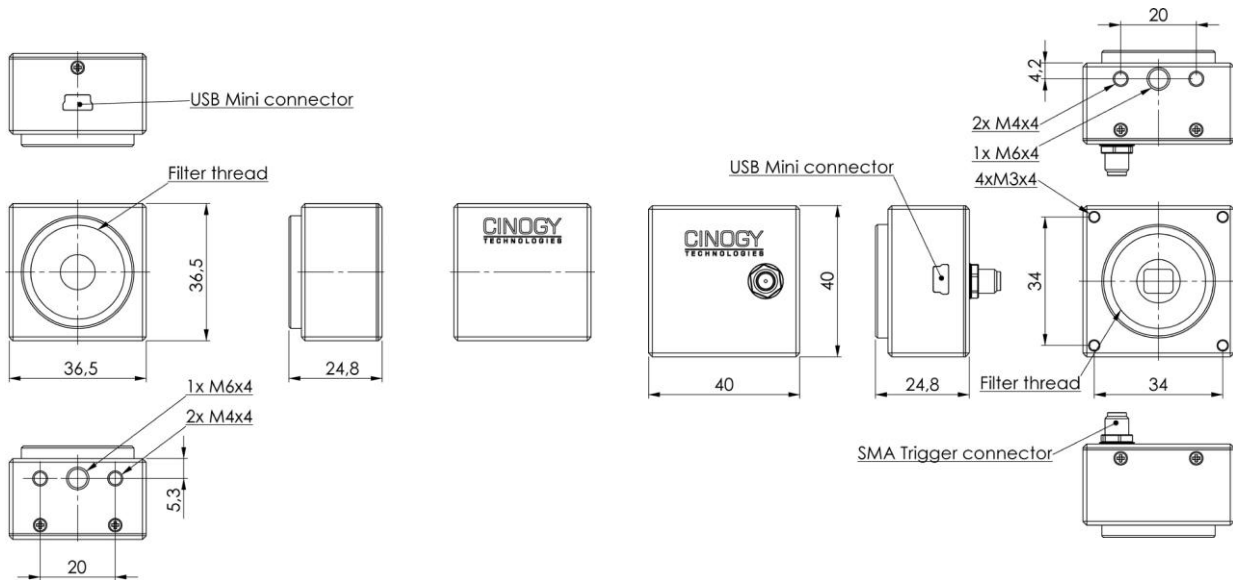
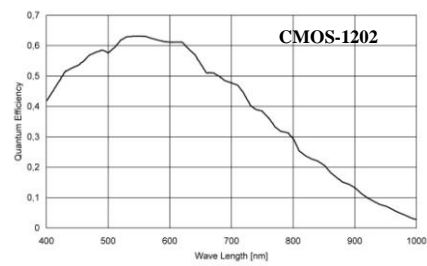
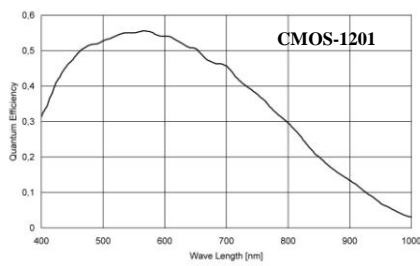
* without condensation

Design and specification of the described product(s) are subject to change without notice.





CinCam CMOS - Sensor Response - - Dimensions -



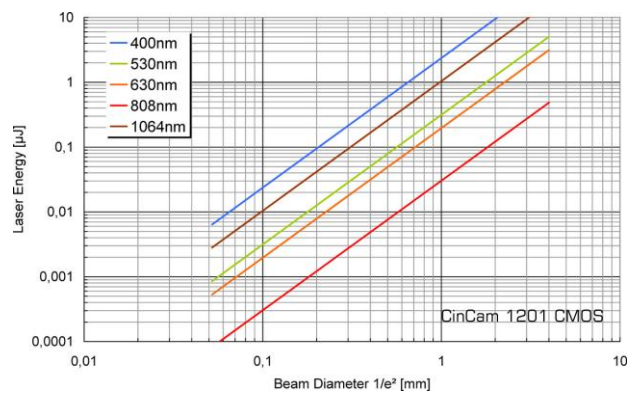
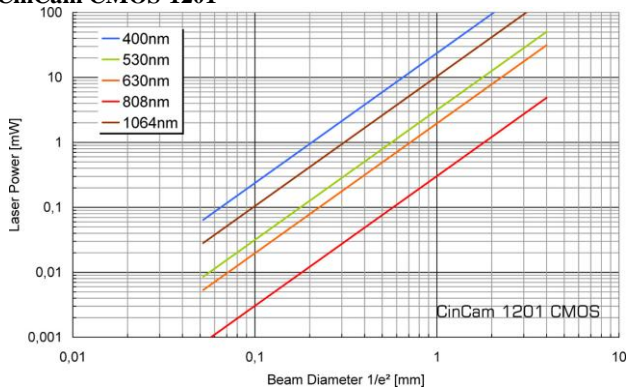


CinCam CMOS - Operational Range -

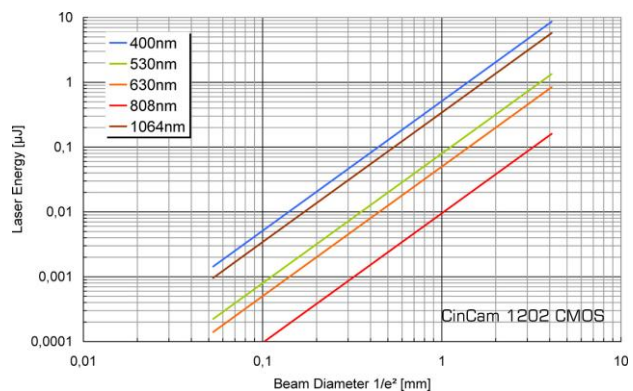
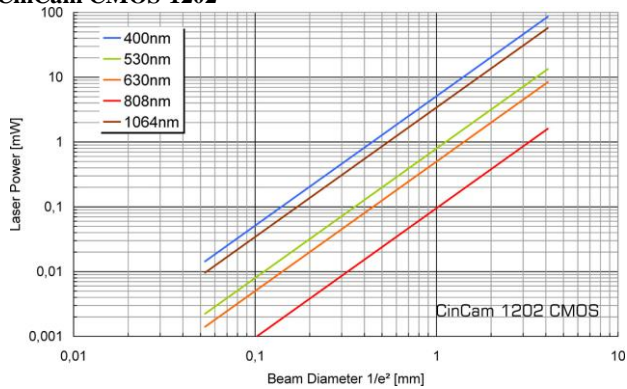
Maximum CW power for saturation limit

Maximum PULSE energy for saturation limit
(single pulse during the exposure time)

CinCam CMOS-1201



CinCam CMOS-1202





CinCam CMOS - Operational Range -

Saturation limit assumes:

Saturation level:	90%
Built-in ND-Filter:	OD3.0
Exposure time:	100µs (lowest value)
Gain:	1 (lowest value)
Maximum beam power:	<1W

A higher power level is possible with additional ND filter:

Optical density	Higher limit
OD 1.0	10 x Saturation limit
OD 2.0	100 x Saturation limit
OD 3.0	1000 x Saturation limit
OD 4.0	10000 x Saturation limit

By longer exposure times a lower power level is apply:

Exposure time	Lower limit	
100µs	See chart for cw saturation limit	
1ms	0.1 x Saturation limit	
10ms	0.01 x Saturation limit	Only for cw laser!
100ms	0.001 x Saturation limit	
1000ms	0.0001 x Saturation limit	

Max. pulse repetition rate / pulse length for single pulse measurement:

See chart for pulse saturation limit

Exposure time	Pulse repetition rate / pulse length	
100µs	10kHz / <100µs	
1ms	1kHz / <1ms	
10ms	100Hz / <10ms	Only for pulsed laser!
100ms	10Hz / <100ms	
1000ms	1Hz / <1000ms	

