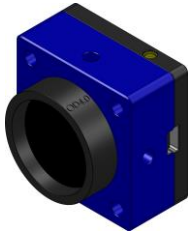


CinCam CMOS - Technical Data -

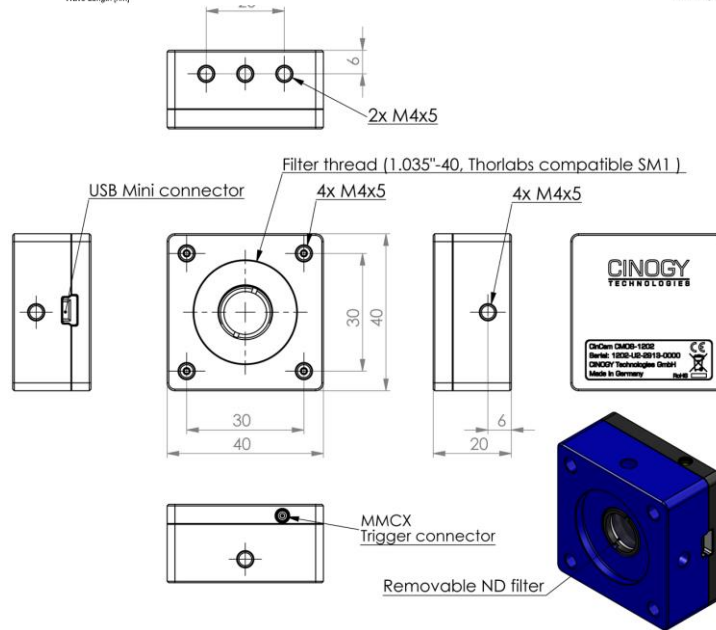
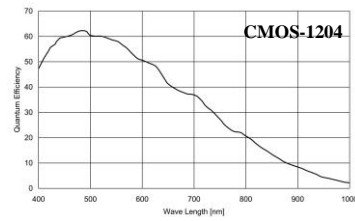
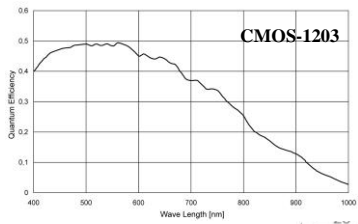
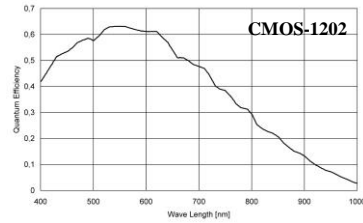
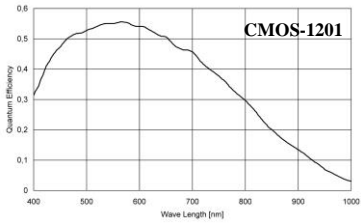
	CMOS-1201	CMOS-1202	CMOS-1203	CMOS-1204
	<i>Standard Series</i>	<i>Standard Series</i>	<i>Standard Series</i>	<i>Standard Series</i>
SENSOR DATA				
Format:	1/2"	1/1.8"	1/1.8"	1/2.5"
Active area (without cover glass):	6.7mm x 5.3mm	6.8mm x 5.4mm	7.2mm x 5.4mm	5.7mm x 4.3mm
Number of pixel:	1280 x 1024 (1.3MPixel)	1280 x 1024 (1.3MPixel)	1600 x 1200 (2MPixel)	2560 x 1920 (5MPixel)
Pixel size:	5.2µm x 5.2µm	5.3µm x 5.3µm	4.5µm x 4.5µm	2.2µm x 2.2µm
Spectral response:				
Standard: absorptive built-in ND filter	400nm - 1150nm	400nm - 1320nm	400nm - 1320nm	400nm - 1150nm
RT: reflective built-in ND filter	320nm - 1150nm	320nm - 1150nm	320nm - 1150nm	320nm - 1150nm
UV: phosphor sensor coating	<150nm - 1150nm	<150nm - 1150nm	<150nm - 1150nm	<150nm - 1150nm
OM: sensor without microlenses	-	240nm - 1150nm	240nm - 1150nm	240nm - 1150nm
IR: phosphor sensor coating	1470nm - 1605nm	1470nm - 1605nm	1470nm - 1605nm	on request
Beam diameter min / max (recommended):	52µm / 4mm	53µm / 4.1mm	45µm / 4mm	22µm / 3.2mm
CAMERA FEATURES				
Mount:	Filter-Mount	Filter-Mount	Filter-Mount	Filter-Mount
Bit depth (output):	8Bit	8Bit	8Bit	8Bit
Dynamic:	68dB (1:2500)	62dB (1:1250)	62dB (1:1250)	70dB (1:3150)
Frame rate:	up to 20Hz	up to 20Hz	up to 14Hz	up to 5Hz
Exposure time:	100µs-140ms	100µs-300ms	100µs-300ms	200µs-200ms
Interface:	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Shutter:	Rolling	Global	Global	Rolling
Mode:	cw	cw or pulsed	cw or pulsed	cw
Trigger:	-	TTL-Signal	TTL-Signal	-
SPECIFICATIONS				
Mechanical dimensions (W x H x L):	40mmx40mmx20mm	40mmx40mmx20mm	40mmx40mmx20mm	40mmx40mmx20mm
Weight:	46g	50g	50g	50g
Electrical requirements:	Power supply via USB	Power supply via USB	Power supply via USB	Power supply via USB
Storage temperature*:	-10°C...+60°C	-10°C...+60°C	-10°C...+60°C	-10°C...+60°C
Operating temperature*:	+0°C...+40°C	+0°C...+40°C	+0°C...+40°C	+0°C...+40°C
Regulations:	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS

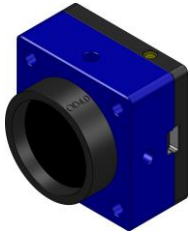
* Without condensation

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



CinCam CMOS
- Sensor Response -
- Dimensions -



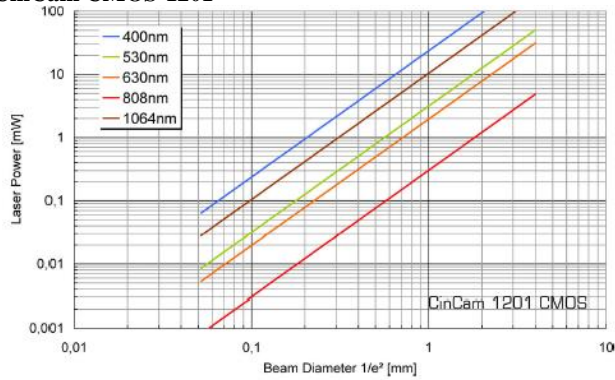


CinCam CMOS - Operational Range -

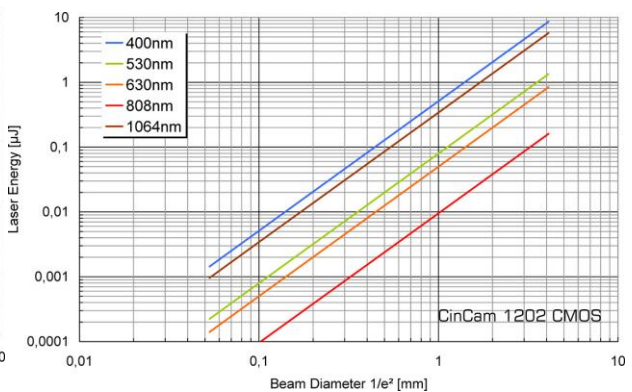
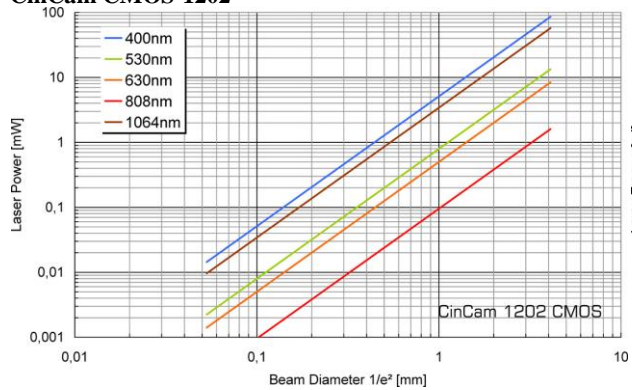
Maximum CW power for saturation limit

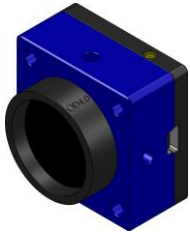
Maximum PULSE energy for saturation limit
(single pulse during the exposure time)

CinCam CMOS-1201



CinCam CMOS-1202



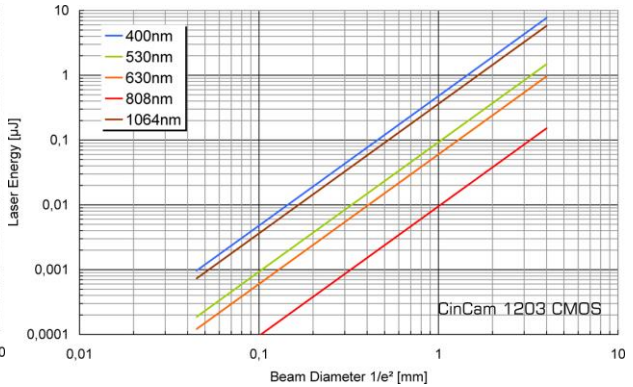
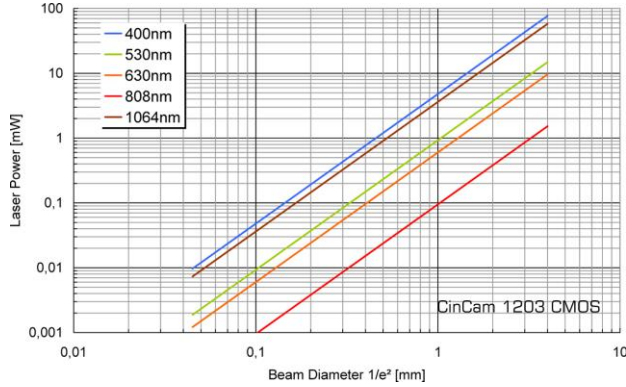


CinCam CMOS - Operational Range -

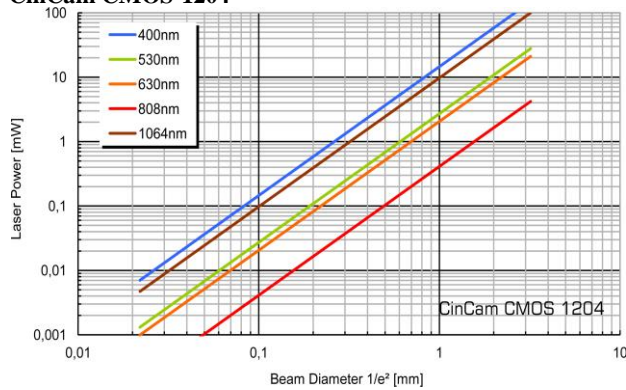
Maximum CW power for saturation limit

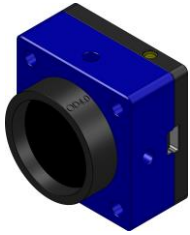
Maximum PULSE energy for saturation limit
(single pulse during the exposure time)

CinCam CMOS-1203



CinCam CMOS-1204





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	