

Low Light Global Shutter

SCMOS Camera



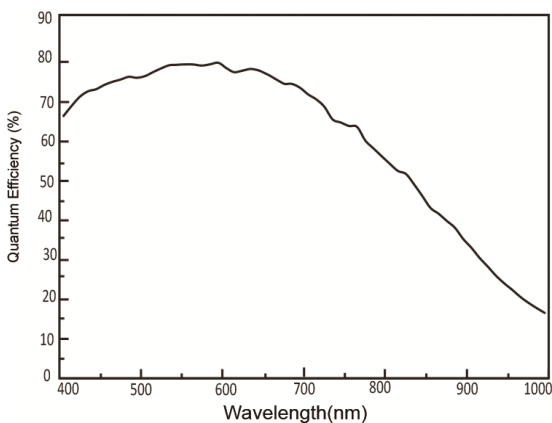
Applications

- 3D high speed laser scanning
- Ballistic monitoring
- Measurement and analysis of particles movement track and morphology
- Ultra high resolution fluorescence imaging

Advantages

1. Scientific CMOS sensor
2. Global shutter
3. Quantum efficiency :80 %@625 nm
- 4.Hgh speed preview :340fps@2MP
5. Full well capacity:19000 e⁻
6. High dynamic range up to 70 dB
7. Camera Link

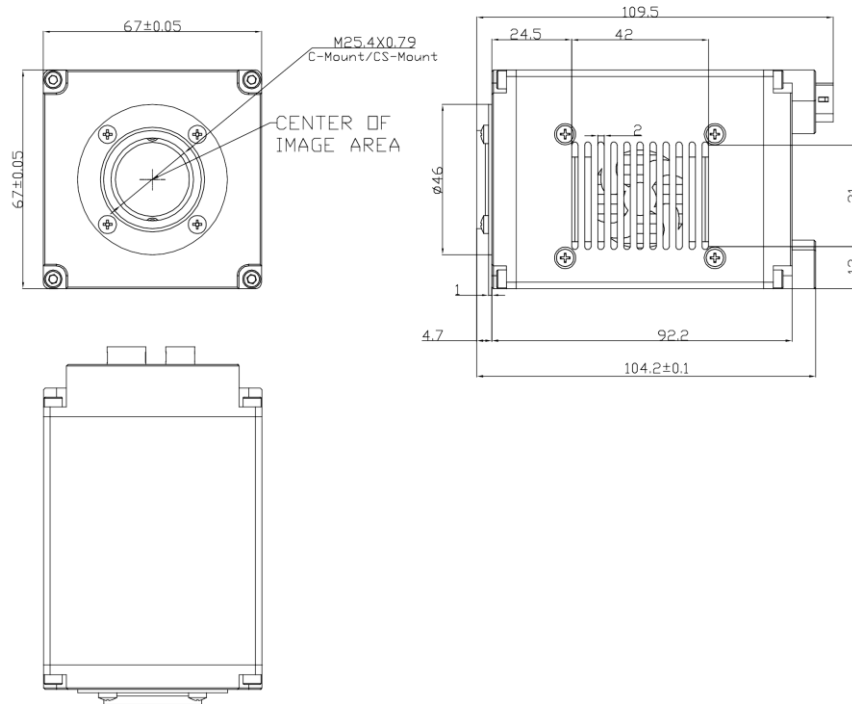
Date Graphics



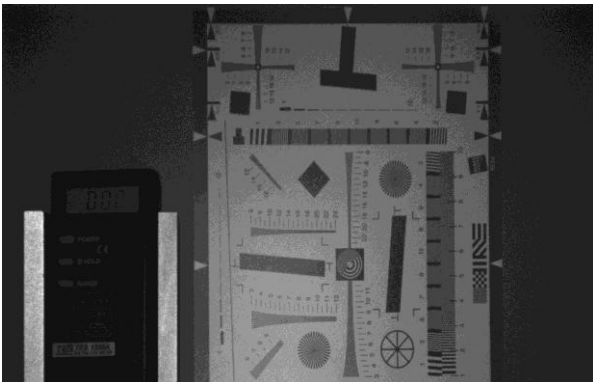
Technical Specification

Product Model	S-200-M-G-CL	S-400-M-G-CL
Image Sensor		
Sensor Type	SCMOS	SCMOS
Sensor Size	1 inch	1.2 inch
Color/Monochrome	Monochrome	Monochrome
Effective Pixels	2MP	4MP
Image Resolution	2048x1152	2048x2048
Pixel Size	6.5µm×6.5µm	6.5µm×6.5µm
Camera Parameters		
Quantum Efficiency	80 % @625nm	80 % @625nm
Readout Noise	5.8e ⁻	8.1e ⁻
Full-well Capacity	19000e ⁻	19000e ⁻
PRNU	1.32%	1.34%
Linearity	0.96	0.79
Dynamic Range	70dB	70dB
Shutter Type	Global	Global
Exposure Control		
Exposure Mode	Maunual/auto/ trigger	Maunual/auto/ trigger
Exposure Time	0.02ms-10s	0.02ms-10s
Image Processing		
Settings	ROI, mirror, gamma, contrast, external trigger mode, etc	ROI, mirror, gamma, contrast, external trigger mode, etc
Scan Mode	Progressive	Progressive
A/D	12 bit	12 bit
Cooling	Fan cooling	Fan cooling
Preview & Transmission		
Frame Rate	340fps	170fps
DataTransfer	Full Camera Link	Full Camera Link
Data Cable	2 SDR-26 camera link cable	2 SDR-26 camera link cable
Interface		
Optical Interface	C mount	C mount
Power Interface	12V/1A	12V/1A
Others		
Dimension (mm)	67 x 67 x 110	67 x 67 x 110
Weight (g)	687	687

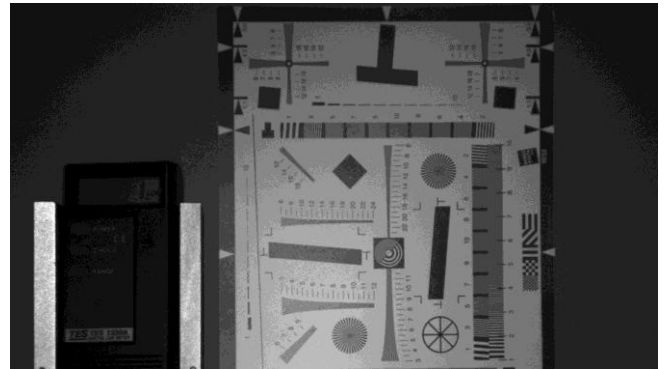
Dimensions



Application Case



0.00Lux global shutter image



0.01Lux global shutter image