

Laser beam profiler SPECIFICATION



USB-C PORT

METAL ROBUST DESIGN

C-MOUNT FOR FILTER OR LENS APPLICATION

Functional capabilities

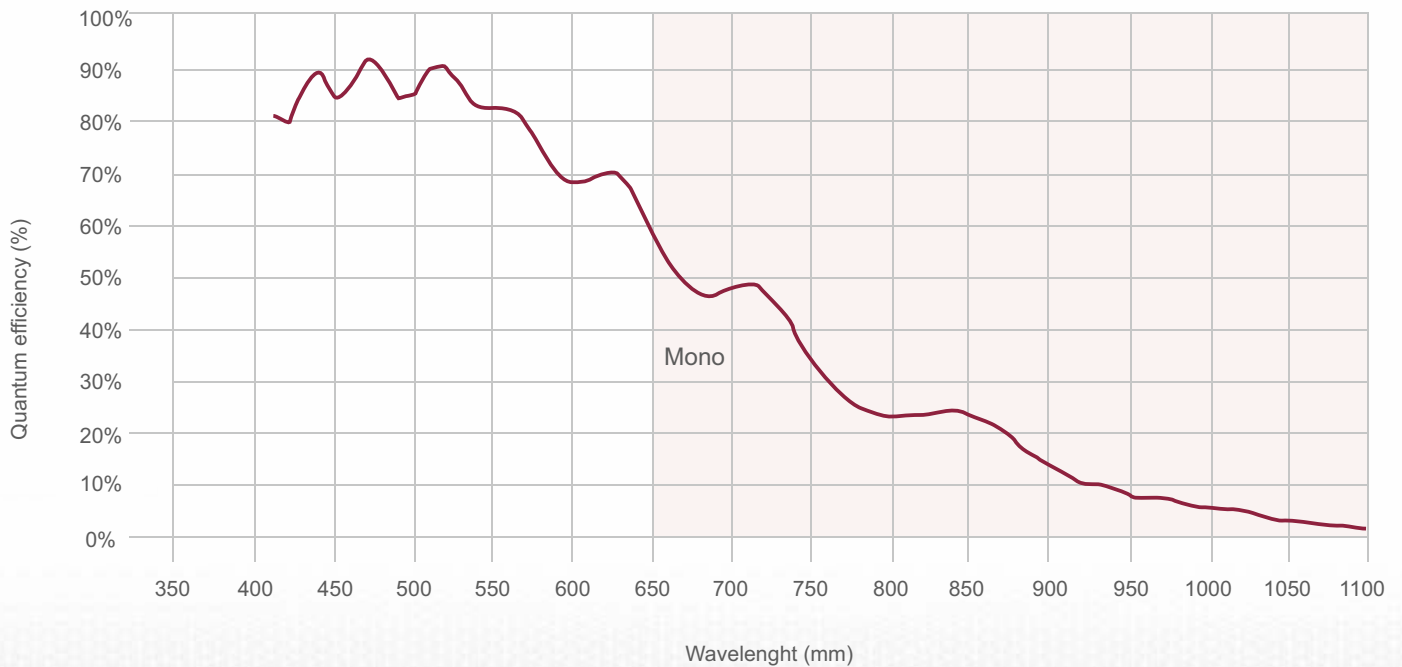
Beam width parameters	FWHM, $1/e^2$, $1/e$, 4σ statistical moments up to 4th for X and Y directions independently	Visualization	2D & 3D
Beam pointing stability	Customizable in Cartesian and Polar coordinates	Calculation frequency	Up to 4Hz
Auto centering	Center of the beam is found automatically	FPS	1-25 range with 1 fps increment
Manual measurement tools	Cursors: horizontal, vertical, free hand; spot probe; zoom-in lens	Exposure time	0.12- 24.62 ms with 0.03 ms increment
Automatic detection of beam artefacts and trends*	Yes, with cloud backed with artificial intelligence	Gain	0-100
Long term data storage*	Yes. Via cloud system in the web browser	Parameters setup mode	Auto & manual
Remote preview*	Yes. Via cloud system in the web browser	Operation mode	Free run or hardware triggering
Fitting	Gauss and Lorentz fit for X and Y direction independently; Returning distribution parameters	Noise correction	DNC technology (c.f. User Manual for description)
Beam geometry	Astigmatic and elliptical	ISO standards reference	ISO 11146-1, ISO 11146-2, and ISO 11146-3
Metrology	3 types of cursors for manual measurement	Software language	English, Polish

* Option available in subscription model. 3 months of free testing period.

Pixel Class	5 MP	Shutter	Rolling Shutter
Resolution	5.04 MPix	Sensor characteristic	Linear
Resolution (h x v)	2592 x 1944 px	Readout mode	Progressive scan
Aspect ratio	4:3	Ambient conditions	
ADC	12 bit	Device temperature during operation	0 °C- 55 °C / 32°F- 131 °F
Color depth (camera)	12 bit	Device temperature during storage	-20 °C- 80 °C / -4 °F- 176 °F
Optical sensor class	1/2.5"	Humidity (relative, non-condensing)	20 % - 80 %
Optical Size	5.702 mm x 4.277 mm	Connectors	
Optical sensor diagonal	7.13 mm (1/2.24")	Interface connector	USB Type-C, Standard 3.1
Pixel size	2.20 µm	Power supply	USB cable
Sensor manufacturer	ONSEMI	Interface-Speed	5.00 Gbps
Sensor model	Ar0521	IP code	No
Sensor type	CMOS Mono		



Spectral sensitivity



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