

Laser beam profiler SPECIFICATION



MINI USB PORT

METAL ROBUST DESIGN

C-MOUNT FOR FILTER OR LENS APPLICATION

Functional capabilities

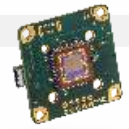
Beam width parameters	FWHM, $1/e^2$, $1/e$, 4σ statistical moments up to 4th for X and Y directions independently	Visualization	2D & 3D
Beam pointing stability	Customizable in Cartesian and Polar coordinates	Calculation frequency	Up to 4Hz
Auto centering	Center of the beam is found automatically	FPS	1-14 range with 1 fps increment
Manual measurement tools	Cursors: horizontal, vertical, free hand; spot probe; zoom-in lens	Exposure time	0.067- 79.94 ms with 0.21 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.

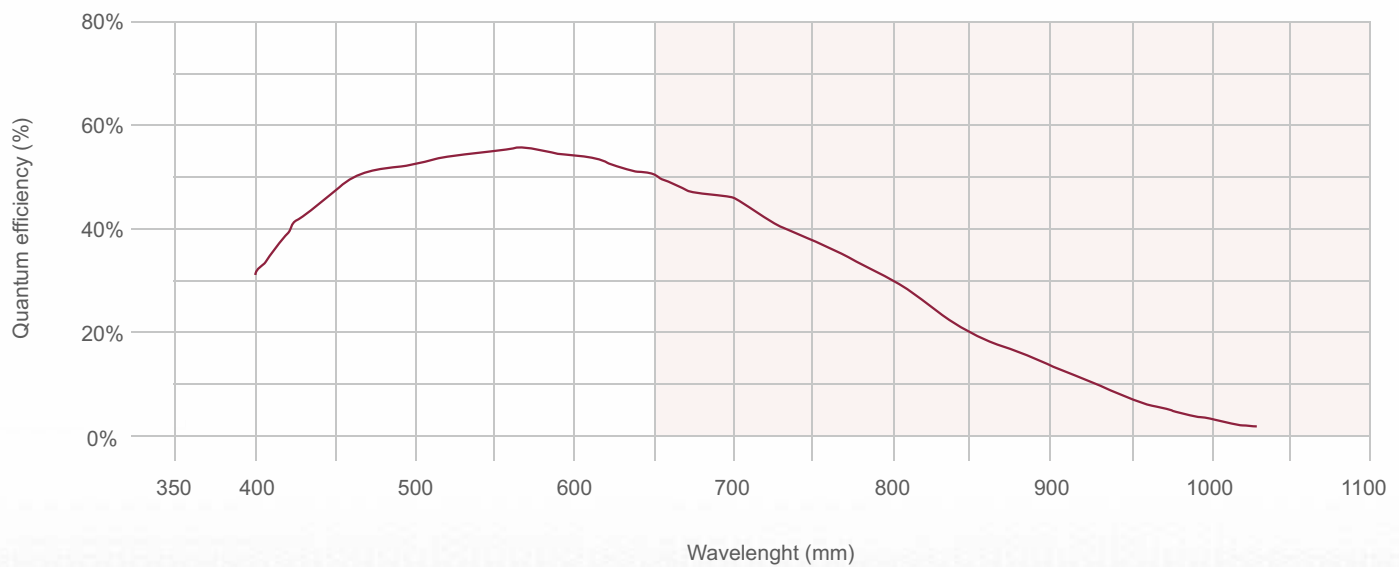
Sensor & Mechanics

HUARIS 1

Pixel Class	1.3 MP	Shutter	Rolling Shutter
Resolution	1.31 Mpix	Sensor characteristic	Linear
Resolution (h x v)	1280 x 1024 px	Readout mode	Progressive scan
Aspect ratio	5:4	Ambient conditions	
ADC	10 bit	Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Color depth (camera)	8 bit	Device temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Optical sensor class	1/2"	Humidity (relative, non-condensing)	20 % - 80 %
Optical Size	6.656 mm x 5.325 mm	Connectors	
Optical sensor diagonal	8.52 mm (1/1.88")	Interface connector	USB 2.0 mini-B
Pixel size	5.2 µm	Power supply	USB cable
Sensor manufacturer	ONSEMI	Interface-Speed	0.47 Gbps
Sensor model	MT9M001STM	IP code	No
Sensor type	CMOS Mono		



Spectral sensitivity



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