

10 Megapixel Back-Illuminated sCMOS



- ▶ 400 Frames Per Second
- ▶ 29mm Field Of View
- ▶ 6.5 x 6.5µm Pixels
- ▶ 1.2e⁻ Read Noise (CMS)
- >95% peak QE



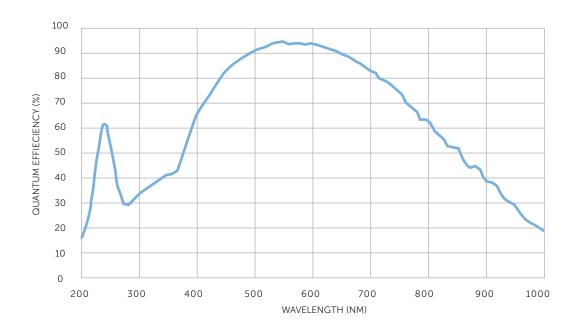
Specifications	Camera Performance			
Sensor	Teledyne Photometrics Kinetix Sensor			
Active Array Size	3200 x 3200 (10.24 Megapixel)			
Pixel Area	6.5μm x 6.5μm (42.25μm²)			
Sensor Area	20.8mm x 20.8mm 29.4mm diagonal			
Peak QE%	>95%			
Readout Mode	Rolling Shutter Effective Global Shutter Programmable Scan Mode			
Binning	2x2 (on FPGA)			
Linearity	>99%			
Cooling Options	Air Cooled Liquid Cooled			

Camera Modes						
Specifications	Dynamic Range	Speed	Sensitivity (CMS)			
Bit-Depth	16-bit	8-bit	12-bit			
Frame Rate (Full Frame)	83 fps	400 fps	90 fps			
Read Noise	1.8e-	2.0e ⁻	1.2e ⁻			
Cooling	-10° C (air)	5° C (air)	-10° C (air)			

Specification	Camera Interface
Digital Interface	PCI-Express Gen 3 USB 3.2 10 Gbps
Lens Interface	T-Mount F-Mount C-Mount Swappable Mounts
Mounting Points	2x 1/4" mounting points per side

Triggering Mode	Function		
Input Trigger Modes	Edge: Each	ence triggered on first rising edge frame triggered on rising edge eration through multiple exposure times	
Output Trigger Modes	Rolling Shutter: Effect Signal First Row: Expos	e signal is high while any rows acquiring data ive Global Shutter - Expose signal is high when all rows are acquiring data is High for set Exposure time - Readout Time e signal is high while first row is acquiring data. e signal provides rising edge for each row advanced by the rolling shutter ut	
Output Trigger Signals	Expose Out (up to four signals), Read Out, Trigger Ready		





Accessories (Included)

USB 3.2 Cable

Trigger Cable

Power Supply

Quickstart Guide

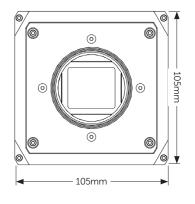
Frame Rate									
Array Size	Dynamic Range		Speed		Sensitivity (CMS)				
	PCI-E	USB	PCI-E	USB	PCI-E	USB			
3200 x 3200	83	43	400	87	90	58			
3200 x 2048	129	67	625	135	140	90			

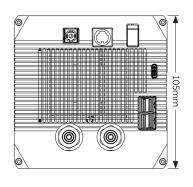
Accessories (Additional)

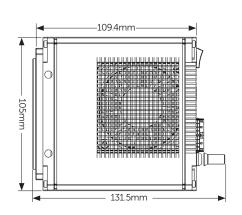
PCle Card/Cable

Liquid Circulator

Liquid Cooling Tubes







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Specifications in this datasheet are subject to change. Refer to the Teledyne Photometrics website for most current specifications.



