

## 10 Megapixel Back-Illuminated sCMOS



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



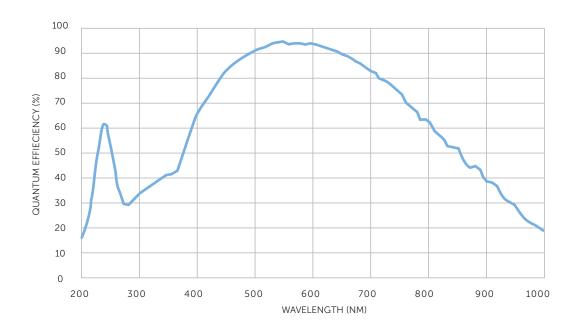
Specifications	Camera Performance			
Sensor	Teledyne Photometrics Kinetix Sensor			
Active Array Size	3200 x 3200 (10.24 Megapixel)			
Pixel Area	6.5µm x 6.5µm (42.25µm²)			
Sensor Area	20.8mm x 20.8mm 29.4mm diagonal			
Peak QE%	>95%			
Readout Mode	Rolling Shutter Effective Global Shutter Programmable 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 <sup>-</sup>	2.0e-	1.2e-		
Cooling	-10° C (air)	5° C (air)	-10° ⊂ (air)		

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

Triggering Mode	Function			
Input Trigger Modes	Trigger First: Sequence triggered on first rising edge Edge: Each frame triggered on rising edge			
	SMART Streaming: Fast iteration through multiple exposure times			
Output Trigger Modes	Any Row: Expose signal is high while any rows acquiring data Rolling Shutter: Effective Global Shutter - Expose signal is high when all rows are acquiring data Signal is High for set Exposure time - Readout Time			
	First Row: Expose signal is high while first row is acquiring data.  Line Output: Expose signal provides rising edge for each row advanced by the rolling shutter readout			
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

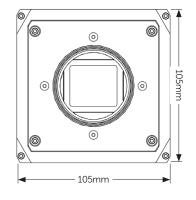
## **Accessories (Additional)**

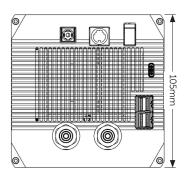
PCle Card/Cable

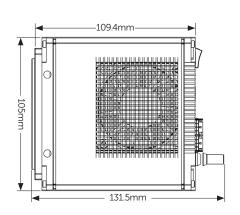
Liquid Circulator

Liquid Cooling Tubes

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			







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



