



KINETIX The New Category In sCMOS Cameras 10 Megapixel 6.5 µm Pixel Size 500 Frames Per Second 29.4 mm Field Of View 95% Quantum Efficiency

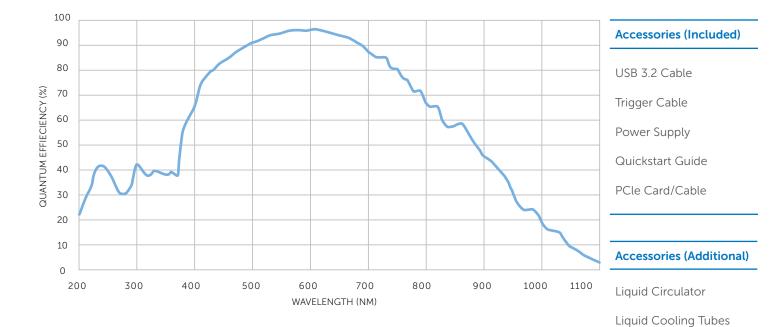
Specifications	Camera Performance		
Sensor	Teledyne Photometrics Kinetix Sensor		
Active Array Size	3200 x 3200 (10.24 Megapixel)		
Pixel Area	6.5μm x 6.5μm (42.25μm²)		
Sensor Area	20.8mm x 20.8mm 29.4mm diagonal		
Peak QE%	>95%		
Readout Mode	Rolling Shutter Effective Global Shutter <u>Programmable Scan Mode</u>		
Binning	2x2 (Digital)		
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	500 fps	88 fps				
Read Noise	1.6e-	2.0e-	1.2e-				
Cooling	-10° C (air)	5° C (air)	-10° C (air)				
Line Time	3.749 µsec/line	0.625 µsec/line	3.53125 µsec/line				

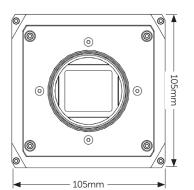
Specification	Camera Interface
Digital Interface	PCI-Express Gen 3 USB 3.2 10 Gbps
Lens Interface	T-Mount F-Mount C-Mount Swappable Mounts
Mounting Points	2x 1/4" mounting points per side

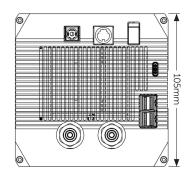
Triggering Mode	Function				
	Trigger First:	Sequence triggered on first rising edge			
Input Trigger Modes	Edge:	Exposure time is controlled by length of high trigger signal			
	SMART Streamin	SMART Streaming: Fast iteration through multiple exposure times			
	Any Row:	Expose signal is high while any rows acquiring data			
	Rolling Shutter:	Effective Global Shutter - Expose signal is high when all rows are			
		acquiring data			
Output Trigger Modes		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 t	Expose Out (up to four signals), Read Out, Trigger Ready			

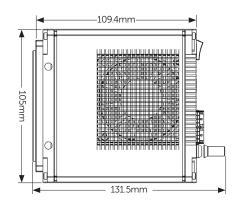




Frame Rate									
Array Size	Dynamic Range		Spe	ed	Sensitivi	ty (CMS)			
	PCI-E	USB	PCI-E	USB	PCI-E	USB			
3200 x 3200	83	34	500	83	88	38			
3200 x 2304	115	47	694	115	122	52			
3200 x 2048	130	53	781	129	138	59			
3200 x 1600	166	69	1000	166	176	76			







Teledyne Photometrics is a registered trademark. Kinetix is a trademark of Teledyne Photometrics. All other brand and product names are the trademarks of their respective owners.

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



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