

Silicon Imaging MegaCamera™ Chart

	SI-1280F	SI-640HF	SI-4000F*	SI-14000*	SI-6600	SI-1920HD	SI-3300	SI-3170	SI-1300	SI-2100	SI-5100
Image Size	1.3 MP	VGA	4.0 MP	14 MP	6.6 MP	2.1 MP	3.2 MP	3.2 MP	1.3 MP	2.1 MP	5.1 MP
Features	Full-Frame Fast ROI	Full-Frame High Speed	Full-Frame High Speed 12um pixel	35mm Film Resolution	Ultra High Resolution	HDTV @ 60P High Speed	Best Color Low Cost	3MP @ 30fps Mono/Color	Lowest Noise IR Sensitivity Low cost	Adaptive Color Correction	Adaptive Color Correction
Image Size	1280 x 1024	640 x 480	2048x2048	3048 x 4560	2110 x 3002	1920 x 1080	2048 x 1536	2048 x 1536	1280 x 1024	1600 x 1200	2592 x 1944
Pixel Pitch	6.7μ square	9.9μ square	12.0μ square	8.0μ square	3.5μ square	5.0μ square	3.2μ square	3.3μ square	5.2μ square	4.2μ square	2.775μ squ
Optical Format	2/3"	1/2"	25mm Nikon F	35mm Nikon F	1"	2/3" (16:9)	1/2"	1/2"	1/2"	1/2"	1/2"
Shutter	Full Frame & Rolling	Full Frame Overlapping	Full Frame Overlapping	Rolling	Rolling	Rolling	Rolling	Rolling	Rolling	Rolling	Rolling
Color/Mono	Color/Mono /IR	Color/Mono	Mono	Color/Mono	Color/Mono	Color/Mono	Color	Color/Mono	Color/Mono	Color	Color
Max Clock	60 Mpix/sec	80 Mpix/sec	100 Mpix/sec	80 Mpix/sec	50 Mpix/sec	150 Mpix/sec	40/80Mpix/sec	100 Mpix/sec	40/80 Mpix/sec	30 Mpix/sec	25 Mpix/sec
Max FPS CL Full Res 128 x 128	40 fps 1675 fps	250 / 500 fps 925 fps	20 fps 1200 fps	4 fps 800 fps	7 fps 1325 fps	60 fps 2000 fps	12 fps 505 fps	30 fps 325 fps	38 fps 505 fps	10 fps 30fps@SVGA	4 fps 30fps@VGA
A/D Bit Depth	12 bits	10 bits	12 bits x 2	12 bits x 4	10 bits	12 bits x 2	10 bits	12 bits x 2	10 bits	10 bits	10 bits
Interfaces	Camera Link USB, Gig-E	Camera Link, Gig-E	Camera Link, Gig-E	Camera Link Gig-E	Camera Link USB, Gig-E	Camera Link, Gig-E	Camera Link USB, Gig-E	Camera Link Gig-E	Camera Link USB/R, Gig-E	USB	USB
Subsampling Fast readouts	Subsampling & Windowing (inc in X & Y)	Subsampling & Windowing (inc in Y)	Subsampling & Windowing (inc in X & Y)	Subsampling Windowing	Subsampling Windowing	Subsampling Windowing Binning mono	Subsampling & Windowing	Windowing (inc in Y)	Subsampling & Windowing	Subsampling	Subsampling, Zooming
Special Features	110ke- Full Well Dual Slope Zuses Triggered Shutter	Simultaneous Full-Frame Shutter& Readout Fast VGA Large Pixel	< 1/5000 parasitic sensitivity Full-Frame Shutter& Readout 6T 12u Pixel	F-Mount Largest Image 35mm Film 65dB Optical Dynamic Range	Portrait Aspect ND Readout Speed-up in X&Y	16:9 Aspect High-Speed Genlock	Auto Black Low dark current Genlock Best color Global Reset 80MHz(-H)	Frame Rate increases with reduced Height.	Auto Black Low dark current 10e Temporal Noise, Genlock 80MHz (-H)	Auto-Exposure AGC/AEC/AWB	Auto-Exposure AGC/AEC/AWB Small Pixel
Target Market	Machine Vision, Object Tracking Laser Imaging	Motion Capture, Sports Analysis Machine Vision	Motion Capture, Sports Analysis Machine Vision	PCB Inspection Film Scanning, Biometrics Metrology	Metrology Film Scanning, Biometrics PCB Inspection	HDTV Stereo Video High Speed HD Visuals	Long Exposure HD-24P Metrology Microscopy Surveillance	Film Scanning Biometrics Optic Inspection	Long Exposure Color Metrology Microscopy Surveillance	Color Capture Microscopy Snap-Shots	Color Capture Microscopy Snap-Shots
MegaCamera Features	Trigger-In and Strobe-Out , Programmable Clock rates (20~100MHz), ROI Windowing, Stereo Pixel-clock Gen-Lock option, 56Kb High Speed Serial modes USB Bus Powered Operation up to 40MB/sec, 5VDC Operation, Smallest size (33x 40 x 2PCB) for C mount cameras										

* SI-4000F and SI-14000 are preliminary specifications. Contact Silicon Imaging for availability and final specification.