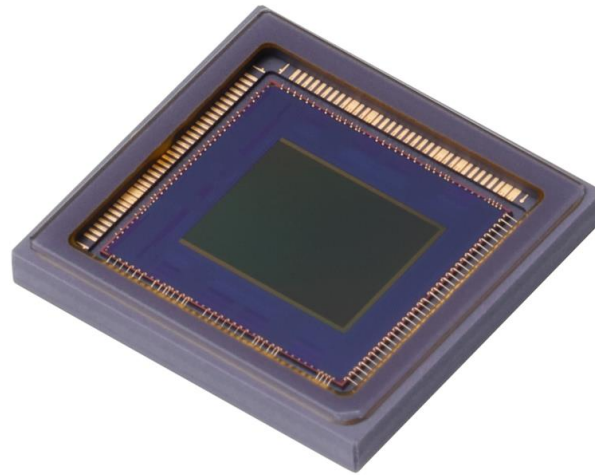


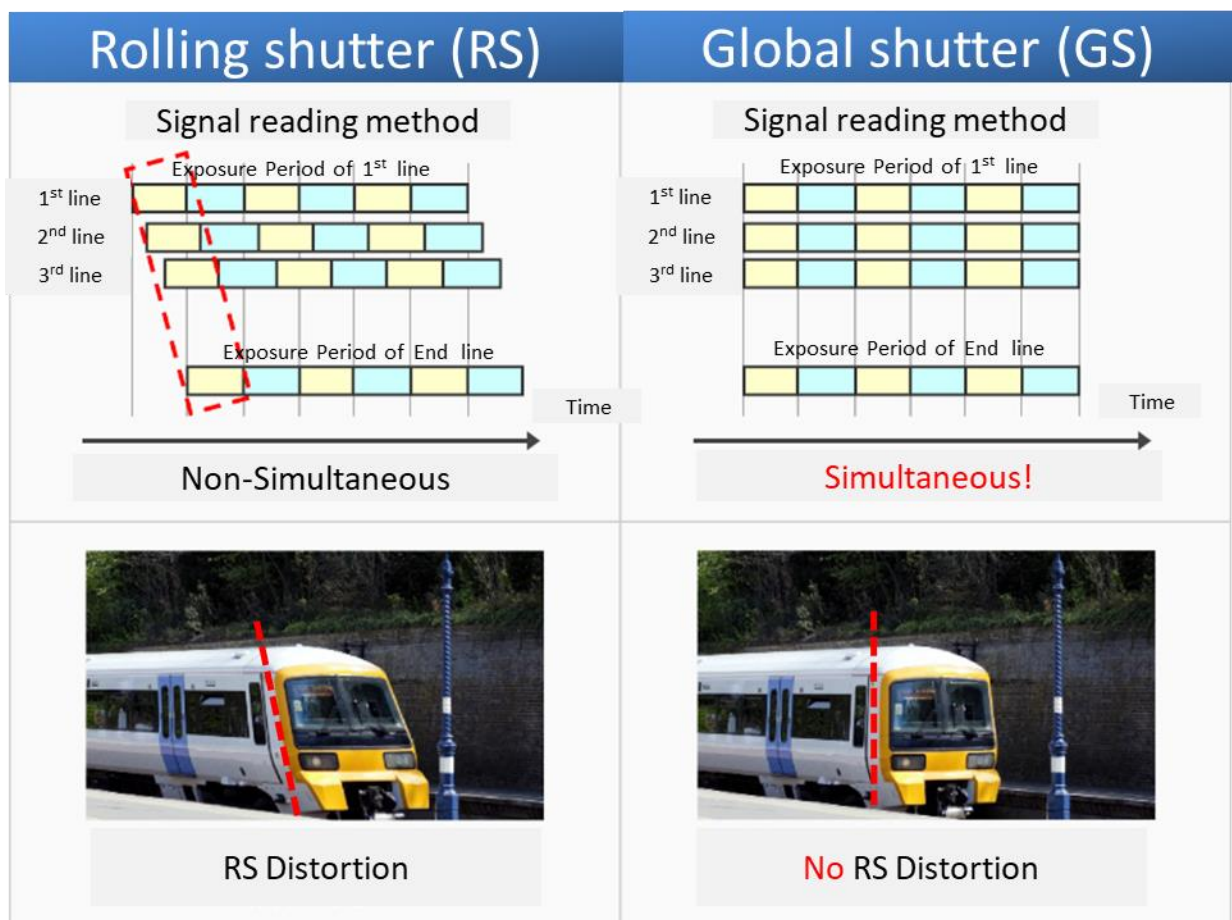
Global Shutter 5M CMOS

LI5040SAM(Mono)/ LI5040SAC(RGB)/ LI5040SAI(RGBIR)



The LI5040SA is a CMOS type of solid-state image sensor with a 2/3 inch effective pixel array of 5.33 M pixels. It uses a global shutter feature as a charge storage period control feature. It can output an effective 2592 x 2056 pixels of video at 120 fps and 12bit via 12 channels of digital signal output.

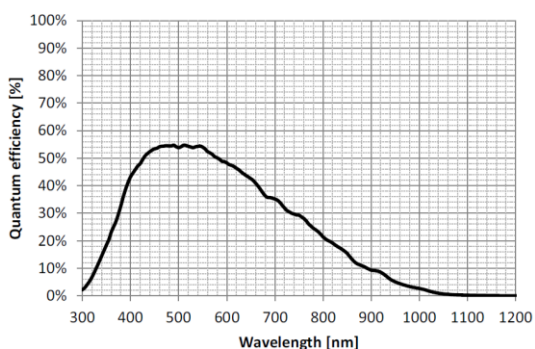
*LI5040SA series consists of LI5040SAM (Mono) and LI5040SAC (RGB) and LI5040SAI (RGBIR).



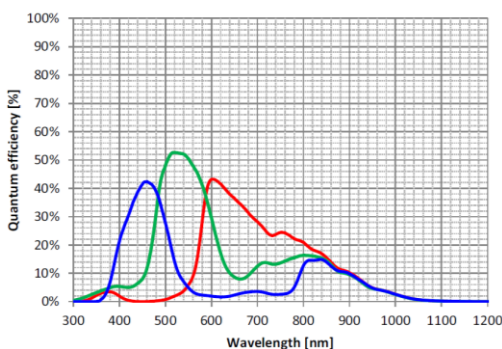
Specifications

	LI5040SAM	LI5040SAC	LI5040SAI
Filter Type	Mono	RGB	RGBIR
Sensitivity	54,000 e/lx/sec	30,000 (Green) e/lx/sec	
Sensor Size	2/3 inch (Diagonal 11.24 mm)		
Number effective Pixels	2592 x 2056 (Horizontal x Vertical)		
Pixel Size	3.4 um x 3.4 um		
Scan Type	Progressive Scan		
Shutter	Global shutter		
Maximum Frame Rate (All Pixels)	60 fps @ Dynamic Range Priority Mode		
	120 fps @ Frame Rate Priority Mode		
Saturation	12,000 e @Analog gain x1, Dynamic Range Priority Mode		
	7,000 e @Analog gain x1, Frame Rate Priority Mode		
Dark Random Noise	2.6 e rms @Analog gain x1		
Dark Current	1.3 e/sec @Analog gain x1, room temperature		
Drive Frequency	36 MHz (recommended)		
Output Channels	Data: 12 lanes, Clock: 2 lanes		
Output Format	LVDS output maximum 864 Mbps @12 bit		
Power Consumption	500 mW(Typ.) @Using all pixels 60 fps		
Power Supply Voltages	3.3 V, 1.2 V		
Package Type	180 pin ceramic LGA		
Package Size	18.96 mm x 18.10 mm x 2.51 mm		

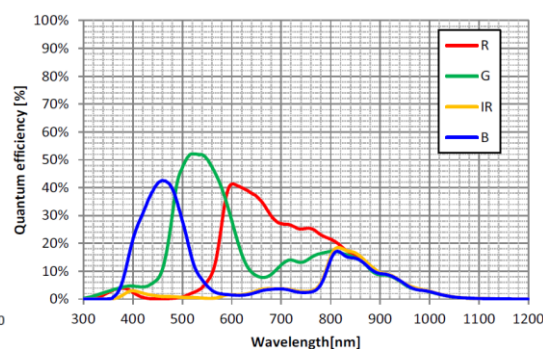
LI5040SAM



LI5040SAC



LI5040SAI



* The contents of this specification are subject to change without notice.

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