

CMOS IMAGE SENSORS COMPARISON CHART

	250MP		120MP			5MP Global shutter						1/1.8" 2.1MP HDR	1" 12MP		
	LI8020S AC	LI8020SAM	120MXSC	120MXSM	120MXSI	LI5010SAC	LI5010SAM	LI5010SAI	LI5020SAC	LI5020SAM	LI5020SAI	LI7050SAC	LI7030SAC		
Filter Type	RGB	Monochrome	RGB	Monochrome	RGB-NIR	RGB	Monochrome	RGB-NIR	RGB	Monochrome	RGB-NIR	RGB	RGB		
Sensitivity (e/lx/sec)	4,600 (Green)	11,000	10,000 (Green)	20,000	10,000 (Green)	30,000 (Green)	47,000	30,000 (Green)	30,000 (Green)	54,000	30,000 (Green)	55,000 (Green)	22,000		
Dark Random Noise	3.8e rms @ 12dB		2.3e rms @ gain x8, Room Temperature			2.6e rms @ Analog gain x1			2.6e rms @ Analog gain x1			1.1e rms, Room Temperature	2.6e rms @ 4K3K, 24fps(12bit)		
Saturation	5,400 [e] (@6dB)		10,000 [e] (@gain x 0.5)			12,000e – Dynamic Range Priority Mode (@ Analog gain 0 dB)			12,000e – Dynamic Range Priority Mode (@ Analog gain 0 dB)			30,000 [e] (@gain x 1)		25,000 [e]	
						7,000e – Frame Rate Priority Mode (@ Analog gain 0 dB)			7,000e – Frame Rate Priority Mode (@ Analog gain 0 dB)						
Resolution (megapixels)	250		122			5			5			2.12		12	
Effective Pixels (Horizontal x Vertical)	19568 x 12588		13272 x 9176			2592 x 2056			2592 x 2056			1936 x 1096		4004 x 3000	
Sensor Size	APS-H (29.35mm x 18.88mm)		APS-H (29.22mm x 20.20mm)			Approx. 2/3 inch (8.8mm x 7.0mm)			Approx. 2/3 inch (8.8mm x 7.0mm)			1/1.8 inch (7.94mm x 4.49mm)		1 inch (12.8mm x 9.6mm)	
Pixel Size	1.5µm x 1.5µm		2.2µm x 2.2µm			3.4µm x 3.4µm			3.4µm x 3.4µm			4.1µm x 4.1µm		3.2µm x 3.2µm	
Maximum Frame Rate	5 fps		9.4 fps			60fps – Dynamic Range Priority Mode			60fps – Dynamic Range Priority Mode			60fps		4K3K video at 24 fps (12bit)	
						120fps – Frame Rate Priority Mode			120fps – Frame Rate Priority Mode			30 fps (HDR)		4K2K video at 60 fps (10bit)	
Shutter Type	Rolling		Rolling			Global electronic shutter function			Global electronic shutter function			Rolling		Rolling	
I/F	LVDS		LVDS			LVDS			LVDS			MIPI CSI-2		LVDS	
Power Consumption (Type)	2.0W (under recommended operating conditions)		2.5 W (under recommended operating conditions)			500mW (all pixels @ 120 fps)			510mW (all pixels @ 120 fps) 440mW (all pixels @ 42 fps)Low Power mode			320mW (all pixels @ 60 fps)		540 mW @4K2K readout, 60fps (10bit)	

The contents of this specification are subject to change without notice