

CMOS IMAGE SENSORS COMPARISON CHART

	250MP		120MP			5MP Global shutter						1/1.8" 2.1MP HDR	1" 12MP	1/2.3" 2.8M HDR
	LI8020SAC	LI8020SAM	120MXSC	120MXSM	120MXSI	LI5010SAC	LI5010SAM	LI5010SAI	LI5020SAC	LI5020SAM	LI5020SAI	LI7050SAC	LI7030SAC	LI7060SAC
Filter Type	RGB	Monochrome	RGB	Monochrome	RGB-NIR	RGB	Monochrome	RGB-NIR	RGB	Monochrome	RGB-NIR	RGB	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	22,000 (Green)
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, 24 fps(12bit)	2.3e rms @ room temperature
Saturation	5,400 [e] (@6dB)		10,000 [e] (@gain x0.5)			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]	21,000(TBD)
						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	2.82
Effective Pixels (Horizontal x Vertical)	19568 x 12588		13272 x 9176			2592 x 2056			2592 x 2056			1936 x 1096	4004 x 3000	1936 x 1456
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)	1/2.3"(6.2mm x 4.66mm)
Pixel Size	1.5µm x 1.5µm		2.2µm x 2.2µm			3.4µm x 3.4µm			3.4µm x 3.4µm			4.1µmx 4.1µm	3.2µm x 3.2µm	3.2um x 3.2um
Maximum Frame Rate	5 fps		9.4 fps			60fps – Dynamic Range Priority Mode			60fps – Dynamic Range Priority Mode			60 fps	4K3K video at 24 fps (12bit)	60 fps
						120fps – Frame Rate Priority Mode			120fps – Frame Rate Priority Mode			30 fps (HDR)	4K2K video at 60 fps (10bit)	30 fps (HDR)
Shutter Type	Rolling		Rolling			Global electronic shutter function			Global electronic shutter function			Rolling	Rolling	Rolling
I/F	LVDS		LVDS			LVDS			LVDS			MIPI CSI-2	LVDS	MIPI CSI-2
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)	540mW @ 4K2K readout, 60 fps (10bit)	320mW (all pixels @ 60 fps)

The contents of this specification are subject to change without notice