EMVA 1288 IMAGING PERFORMANCE

FLIR BLACKFLY® S

BFS-U3-51S5

Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C).

	BFS-U3-51S5P				BFS-U3-51S5PC			
Resolution	2448 x 2048				2448 x 2048			
Sensor	Sony IMX250, CMOS, 2/3"				Sony IMX250, CMOS, 2/3"			
Pixel Size (µm)	3.45				3.45			
Firmware	1804.2.7.0				1811.1.15.0			
ADC	12-bit				12-bit			
Polarization Angle (degree)	**0**	**45**	**90**	**135**	**0**	**45**	**90**	**135**
Quantum Efficiency Mono (% at 530 nm)	24	25	24	25	N/A	N/A	N/A	N/A
Quantum Efficiency Blue (% at 460 nm)	N/A	N/A	N/A	N/A	17	18	17	18
Quantum Efficiency Green (% at 530 nm)	N/A	N/A	N/A	N/A	22	23	22	23
Quantum Efficiency Red (% at 625 nm)	N/A	N/A	N/A	N/A	19	19	18	19
Temporal Dark Noise (Read Noise) (e-)	2.42				2.40			
Temporal Dark Noise (Read Noise) (DN)	13.59				13.81			
Signal to Noise Ratio Maximum (dB)	40.55				40.38			
Signal to Noise Ratio Maximum (Bits)	6.74				6.71			
Absolute Sensitivity Threshold (γ)	12.10				12.94			
Absolute Sensitivity Threshold (e-)	2.92				2.90			
Saturation Capacity (Well Depth) (e-)	11359				10914			
Saturation Capacity (Well Depth) (γ)	47141				48694			
Dynamic Range (dB)	71.81				71.51			
Dynamic Range (Bits)	11.93				11.88			
Gain (e-/ADU)	0.18				0.17			

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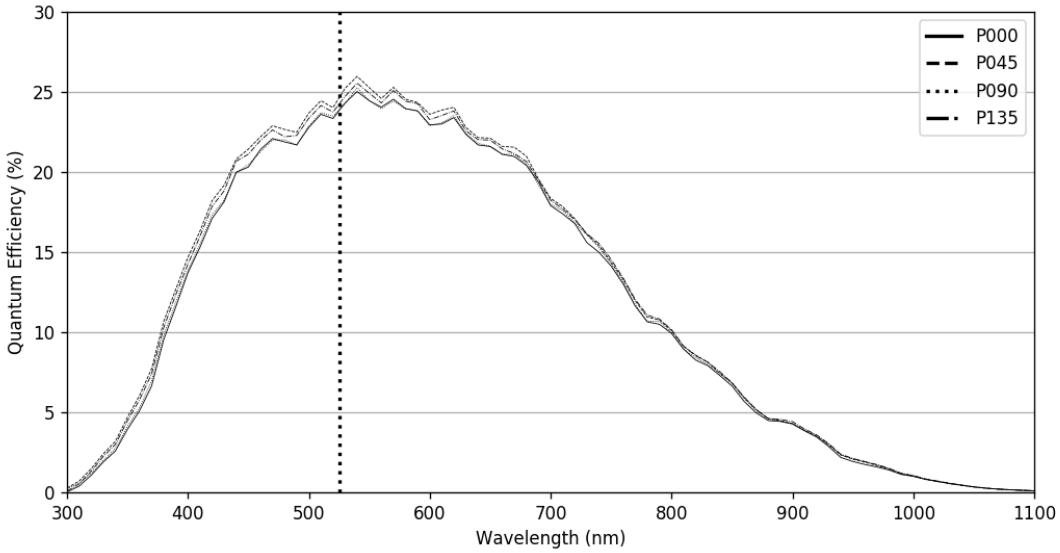
1288
EMVA Standard Compliant

BFS-U3-51S5P



BFS-U3-51S5PC