

EMVA 1288 IMAGING PERFORMANCE

FLIR BLACKFLY[®]S

BFS-PGE-123S6

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).

Blackfly S BFS-PGE-123S6P

Resolution	4096x3000			
Sensor	Sony IMX253, CMOS, 1.1			
Pixel Size (μm)	3.45			
Firmware Version	2109.0.255.0			
ADC Bit Depth	12			
Polarization Angle (degrees)	0	45	90	135
Quantum Efficiency Mono (% at 525 nm)	22.93	22.07	22.57	22.12
Quantum Efficiency Blue (% at 470 nm)	NA	NA	NA	NA
Quantum Efficiency Green (% at 525 nm)	NA	NA	NA	NA
Quantum Efficiency Red (% at 630 nm)	NA	NA	NA	NA
Temporal Dark Noise (Read Noise) (e-)	2.68			
Temporal Dark Noise (Read Noise) (DN)	14.94			
Signal to Noise Ratio Maximum (dB)	40.41			
Signal to Noise Ratio Maximum (Bits)	6.71			
Absolute Sensitivity Threshold (γ)	13.87			
Absolute Sensitivity Threshold (e-)	3.18			
Saturation Capacity (Well Depth) (e-)	10995			
Saturation Capacity (Well Depth) (γ)	47954			
Dynamic Range (dB)	70.77			
Dynamic Range (Bits)	11.76			
Gain (e-/ADU)	0.18			

Blackfly S BFS-PGE-123S6P Spectral Response Curve

