

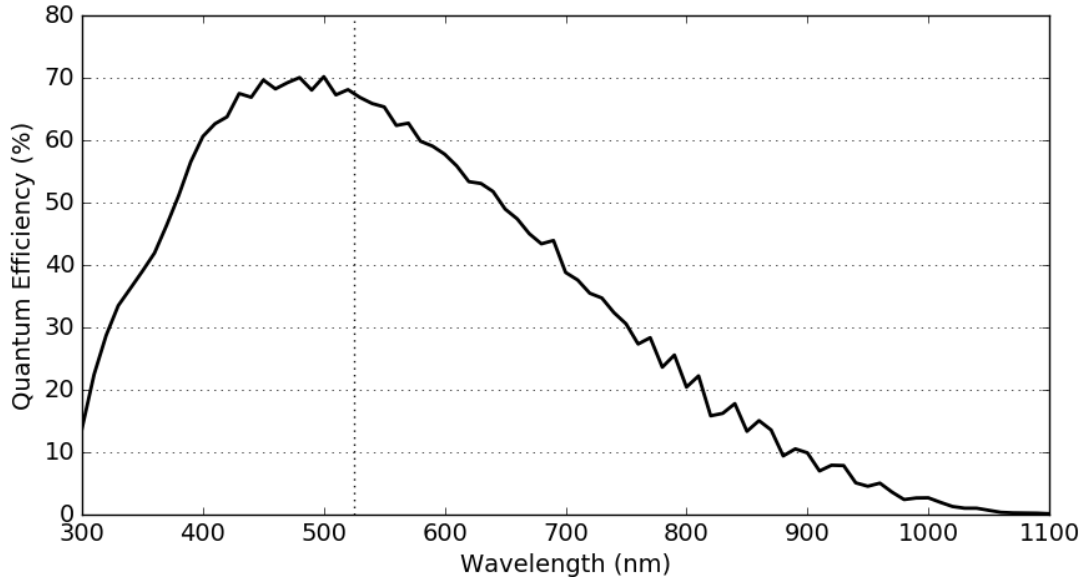
BLACKFLY[®]S

BFS-PGE-120S6

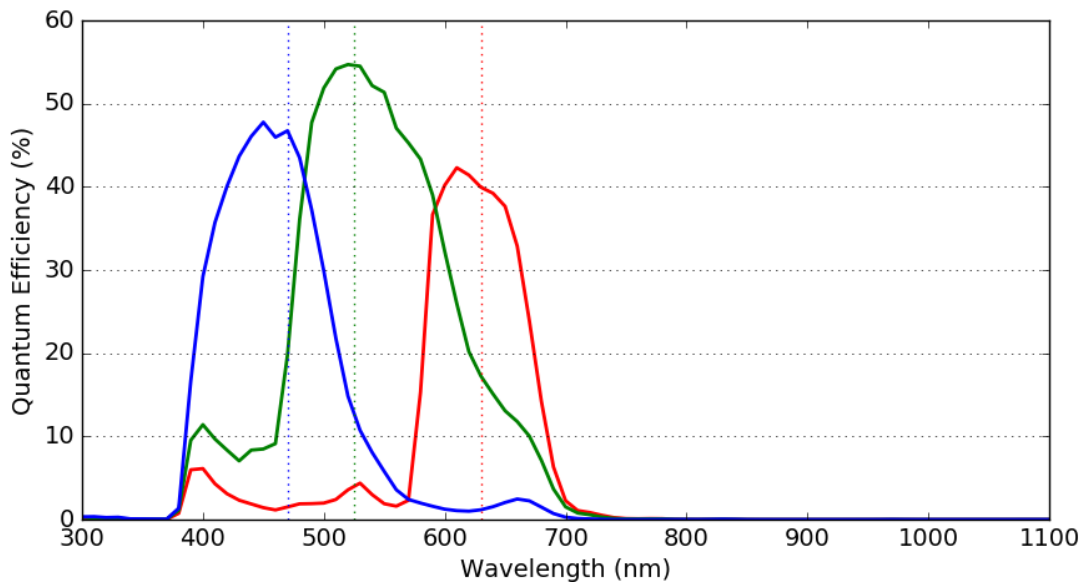
Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C).

| | Blackfly S BFS-PGE-120S6M | Blackfly S BFS-PGE-120S6C |
|---|---------------------------|---------------------------|
| Resolution | 4096x3000 | 4096x3000 |
| Sensor | Sony IMX545, CMOS, 1/1.1 | Sony IMX545, CMOS, 1/1.1 |
| Pixel Size (µm) | 2.74 | 2.74 |
| Firmware Version | 2201.1.19.0 | 2201.1.19.0 |
| ADC Bit Depth | 12 | 12 |
| Quantum Efficiency Mono (% at 525 nm) | 65.75 | N/A |
| Quantum Efficiency Blue (% at 470 nm) | N/A | 45.39 |
| Quantum Efficiency Green (% at 525 nm) | N/A | 51.83 |
| Quantum Efficiency Red (% at 630 nm) | N/A | 33.29 |
| Temporal Dark Noise (Read Noise) (e-) | 2.44 | 2.51 |
| Temporal Dark Noise (Read Noise) (DN) | 16.67 | 16.78 |
| Signal to Noise Ratio Maximum (dB) | 39.58 | 39.78 |
| Signal to Noise Ratio Maximum (Bits) | 6.57 | 6.61 |
| Absolute Sensitivity Threshold (γ) | 4.46 | 5.83 |
| Absolute Sensitivity Threshold (e-) | 2.94 | 3.01 |
| Saturation Capacity (Well Depth) (e-) | 9086 | 9515 |
| Saturation Capacity (Well Depth) (γ) | 13818 | 18411 |
| Dynamic Range (dB) | 69.81 | 69.99 |
| Dynamic Range (Bits) | 11.60 | 11.62 |
| Gain (e-/ADU) | 0.15 | 0.15 |

Blackfly S BFS-PGE-120S6M Spectral Response Curve



Blackfly S BFS-PGE-120S6C Spectral Response Curve



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