# EMVA 1288 IMAGING PERFORMANCE

# BLACKFLY®S

## BFS-PGE-200S6

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-200S6M | Blackfly S BFS-PGE-200S6C |
|---|---|---|
| **Resolution** | 5472x3648 | 5472x3648 |
| **Sensor** | Sony IMX183, CMOS, 1 | Sony IMX183, CMOS, 1 |
| **Pixel Size (µm)** | 2.74 | 2.74 |
| **Firmware Version** | 2103.0.330.0 | 2103.0.330.0 |
| **ADC Bit Depth** | 12 | 12 |
| **Quantum Efficiency Mono (% at 525 nm)** | 79.17 | N/A |
| **Quantum Efficiency Blue (% at 470 nm)** | N/A | 62.32 |
| **Quantum Efficiency Green (% at 525 nm)** | N/A | 68.72 |
| **Quantum Efficiency Red (% at 630 nm)** | N/A | 44.17 |
| **Temporal Dark Noise (Read Noise) (e-)** | 3.32 | 3.34 |
| **Temporal Dark Noise (Read Noise) (DN)** | 13.82 | 14.17 |
| **Signal to Noise Ratio Maximum (dB)** | 41.84 | 41.76 |
| **Signal to Noise Ratio Maximum (Bits)** | 6.95 | 6.94 |
| **Absolute Sensitivity Threshold (γ)** | 4.82 | 5.59 |
| **Absolute Sensitivity Threshold (e-)** | 3.82 | 3.84 |
| **Saturation Capacity (Well Depth) (e-)** | 15272 | 15007 |
| **Saturation Capacity (Well Depth) (γ)** | 19290 | 21844 |
| **Dynamic Range (dB)** | 72.04 | 71.83 |
| **Dynamic Range (Bits)** | 11.97 | 11.93 |
| **Gain (e-/ADU)** | 0.24 | 0.24 |

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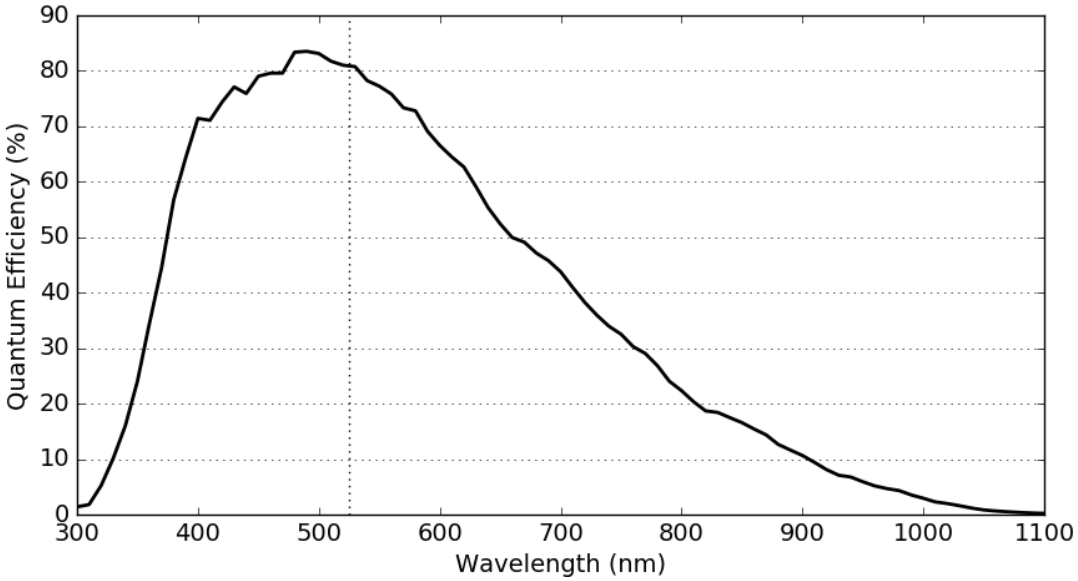
## Blackfly S BFS-PGE-200S6M Spectral Response Curve




## Blackfly S BFS-PGE-200S6C Spectral Response Curve