

# EMVA 1288 IMAGING PERFORMANCE

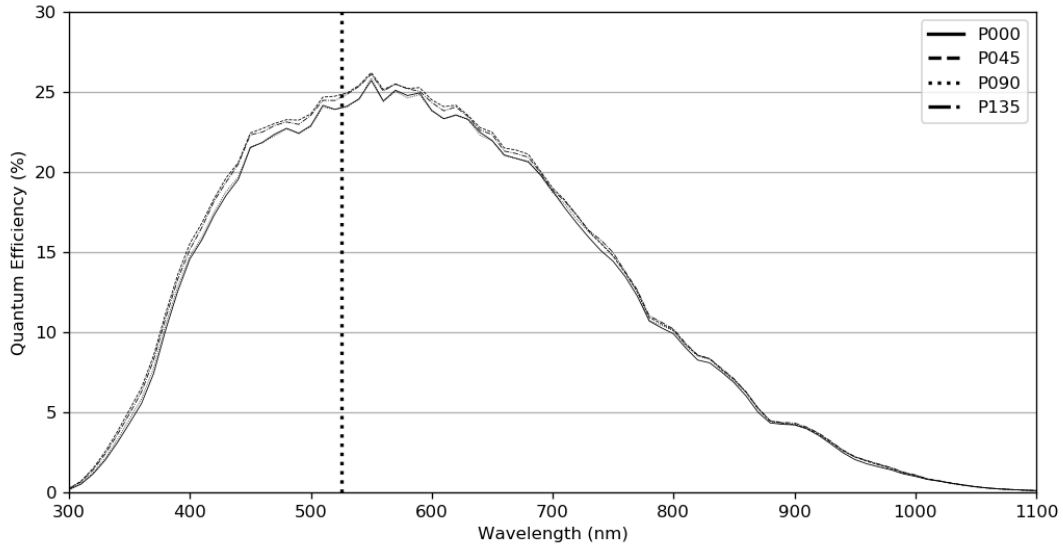
## FLIR BLACKFLY<sup>®</sup>S

### BFS-PGE-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-PGE-51S5P				BFS-PGE-51S5PC			
<b>Resolution</b>	2448 x 2048				2448 x 2048			
<b>Sensor</b>	Sony IMX250, CMOS, 2/3"				Sony IMX250, CMOS, 2/3"			
<b>Pixel Size (μm)</b>	3.45				3.4			
<b>Firmware</b>	1806.0.141.0				1811.2.11.0			
<b>ADC</b>	12-bit				12-bit			
<b>Polarization Angle (degree)</b>	<b>0</b>	<b>45</b>	<b>90</b>	<b>135</b>	<b>0</b>	<b>45</b>	<b>90</b>	<b>135</b>
<b>Quantum Efficiency Mono (% at 530 nm)</b>	24	24	24	25	N/A	N/A	N/A	N/A
<b>Quantum Efficiency Blue (% at 460 nm)</b>	N/A	N/A	N/A	N/A	18	18	18	18
<b>Quantum Efficiency Green (% at 530 nm)</b>	N/A	N/A	N/A	N/A	23	23	23	23
<b>Quantum Efficiency Red (% at 625 nm)</b>	N/A	N/A	N/A	N/A	19	19	19	19
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.45				2.40			
<b>Temporal Dark Noise (Read Noise) (DN)</b>	13.76				13.60			
<b>Signal to Noise Ratio Maximum (dB)</b>	40.52				40.34			
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.73				6.70			
<b>Absolute Sensitivity Threshold (γ)</b>	12.32				12.63			
<b>Absolute Sensitivity Threshold (e-)</b>	2.95				2.90			
<b>Saturation Capacity (Well Depth) (e-)</b>	11267				10826			
<b>Saturation Capacity (Well Depth) (γ)</b>	47111				47180			
<b>Dynamic Range (dB)</b>	71.65				71.45			
<b>Dynamic Range (Bits)</b>	11.90				11.87			
<b>Gain (e-/ADU)</b>	0.18				0.18			

## BFS-PGE-51S5P



## BFS-PGE-51S5PC

