

# EMVA 1288 IMAGING PERFORMANCE

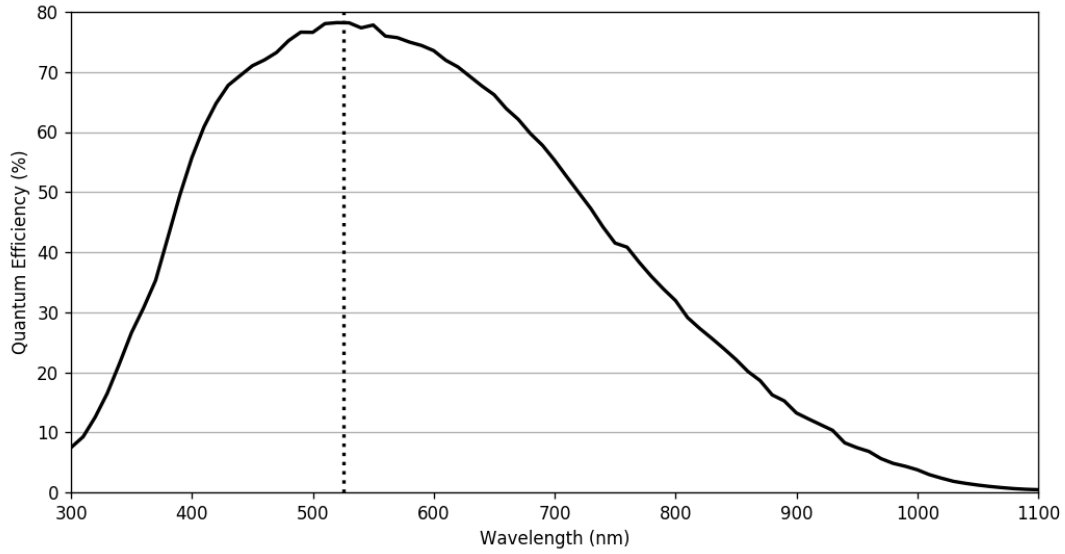
## FLIR BLACKFLY<sup>®</sup>S

### BFS-U3-28S5

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-U3-28S5M	BFS-U3-28S5C			
<b>Resolution</b>	1936 x 1464	1936 x 1464			
<b>Sensor</b>	Sony IMX421, CMOS, 2/3	Sony IMX421, CMOS, 2/3			
<b>Pixel Size (µm)</b>	4.5	4.5			
<b>Firmware</b>	1901.0.154.0	1901.0.154.0			
<b>ADC</b>	12-bit	12-bit			
	<b>Conversion Gain</b>	<b>High</b>	<b>Low</b>	<b>High</b>	<b>Low</b>
<b>Quantum Efficiency Mono (% at 530 nm)</b>		76	77	N/A	N/A
<b>Quantum Efficiency Blue (% at 460 nm)</b>		N/A	N/A	54	55
<b>Quantum Efficiency Green (% at 530 nm)</b>		N/A	N/A	68	69
<b>Quantum Efficiency Red (% at 625 nm)</b>		N/A	N/A	63	65
<b>Temporal Dark Noise (Read Noise) (e-)</b>		2.65	6.03	2.68	6.06
<b>Temporal Dark Noise (Read Noise) (DN)</b>		15.36	15.07	15.30	15.02
<b>Signal to Noise Ratio Maximum (dB)</b>		40.39	44.02	40.45	44.04
<b>Signal to Noise Ratio Maximum (Bits)</b>		6.71	7.31	6.72	7.31
<b>Absolute Sensitivity Threshold (γ)</b>		4.16	8.44	4.67	9.49
<b>Absolute Sensitivity Threshold (e-)</b>		3.15	6.53	3.18	6.56
<b>Saturation Capacity (Well Depth) (e-)</b>		10940	25219	11103	25332
<b>Saturation Capacity (Well Depth) (γ)</b>		14441	32566	16314	36662
<b>Dynamic Range (dB)</b>		70.81	71.73	70.87	71.74
<b>Dynamic Range (Bits)</b>		11.76	11.91	11.77	11.92
<b>Gain (e-/ADU)</b>		0.17	0.40	0.17	0.40

## BFS-U3-28S5M



## BFS-U3-28S5C

