

# EMVA 1288 IMAGING PERFORMANCE

# BLACKFLY<sup>®</sup>S

## BFS-U3-13Y3

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). Using FLIR test software version 4.1.

	BFS-U3-13Y3M	BFS-U3-13Y3C
<b>Resolution</b>	1280 x 1024	1280 x 1024
<b>Sensor</b>	On Semi P1300, CMOS, 1/2"	On Semi P1300, CMOS, 1/2"
<b>Pixel Size (µm)</b>	4.80	4.80
<b>Firmware</b>	1808.0.120.0	1808.0.120.0
<b>ADC</b>	10-bit	10-bit
<b>Quantum Efficiency Mono (% at 530 nm)</b>	51	N/A
<b>Quantum Efficiency Blue (% at 460 nm)</b>	N/A	37
<b>Quantum Efficiency Green (% at 530 nm)</b>	N/A	39
<b>Quantum Efficiency Red (% at 625 nm)</b>	N/A	36
<b>Temporal Dark Noise (Read Noise) (e-)</b>	10.09	9.24
<b>Temporal Dark Noise (Read Noise) (DN)</b>	67.56	62.38
<b>Signal to Noise Ratio Maximum (dB)</b>	37.60	37.67
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.25	6.26
<b>Absolute Sensitivity Threshold (γ)</b>	20.98	25.23
<b>Absolute Sensitivity Threshold (e-)</b>	10.59	9.74
<b>Saturation Capacity (Well Depth) (e-)</b>	5753	5848
<b>Saturation Capacity (Well Depth) (γ)</b>	11392	15153
<b>Dynamic Range (dB)</b>	54.70	55.57
<b>Dynamic Range (Bits)</b>	9.08	9.23
<b>Gain (e-/ADU)</b>	0.15	0.15

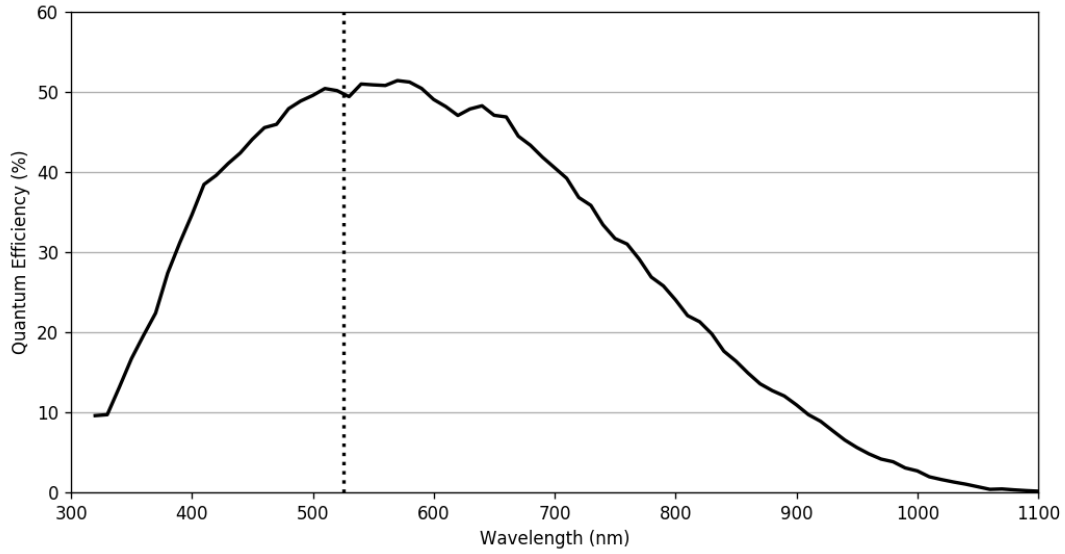
11/3/2022

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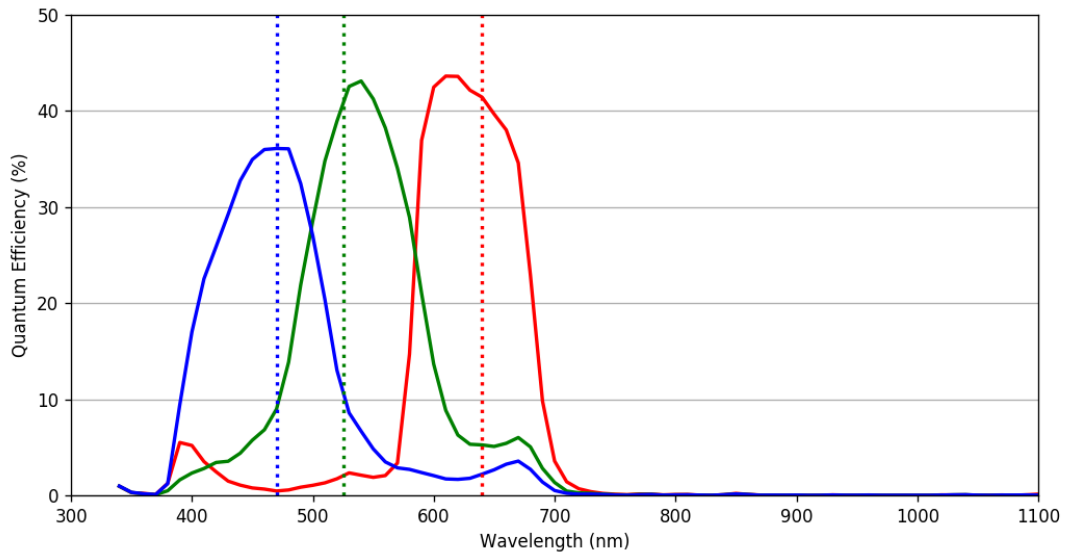
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### BFS-U3-13Y3M



### BFS-U3-13Y3C



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