

EMVA 1288 IMAGING PERFORMANCE

BLACKFLY[®]S

BFS-U3-200S7

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-U3-200S7M	Blackfly S BFS-U3-200S7C
Resolution	4504x4504	4504x4504
Sensor	Sony IMX541, CMOS, 1.1	Sony IMX541, CMOS, 1.1
Pixel Size (µm)	2.74	2.74
Firmware Version	2210.0.435.0	2210.0.435.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	67.18	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	47.47
Quantum Efficiency Green (% at 525 nm)	N/A	53.93
Quantum Efficiency Red (% at 630 nm)	N/A	34.98
Temporal Dark Noise (Read Noise) (e-)	2.21	2.16
Temporal Dark Noise (Read Noise) (DN)	15.11	15.01
Signal to Noise Ratio Maximum (dB)	39.94	39.82
Signal to Noise Ratio Maximum (Bits)	6.63	6.61
Absolute Sensitivity Threshold (γ)	4.20	5.14
Absolute Sensitivity Threshold (e-)	2.82	2.77
Saturation Capacity (Well Depth) (e-)	9870	9595
Saturation Capacity (Well Depth) (γ)	14693	17830
Dynamic Range (dB)	70.88	70.80
Dynamic Range (Bits)	11.77	11.76
Gain (e-/ADU)	0.15	0.15

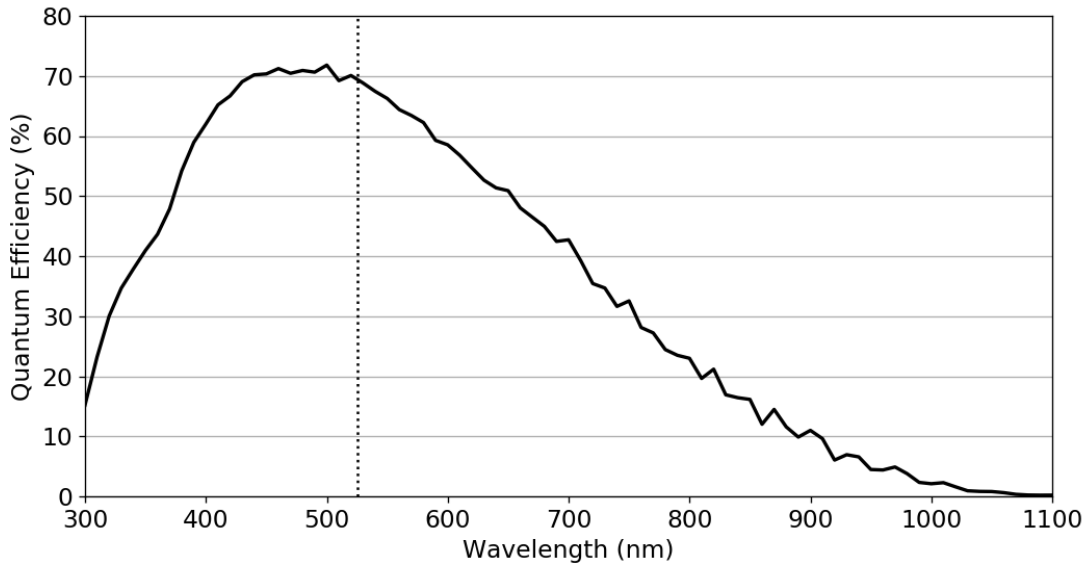
11/2/2022

Names and marks appearing on the products herein are either registered trademarks or trademarks of FLIR Systems, Inc. and/or its subsidiaries.

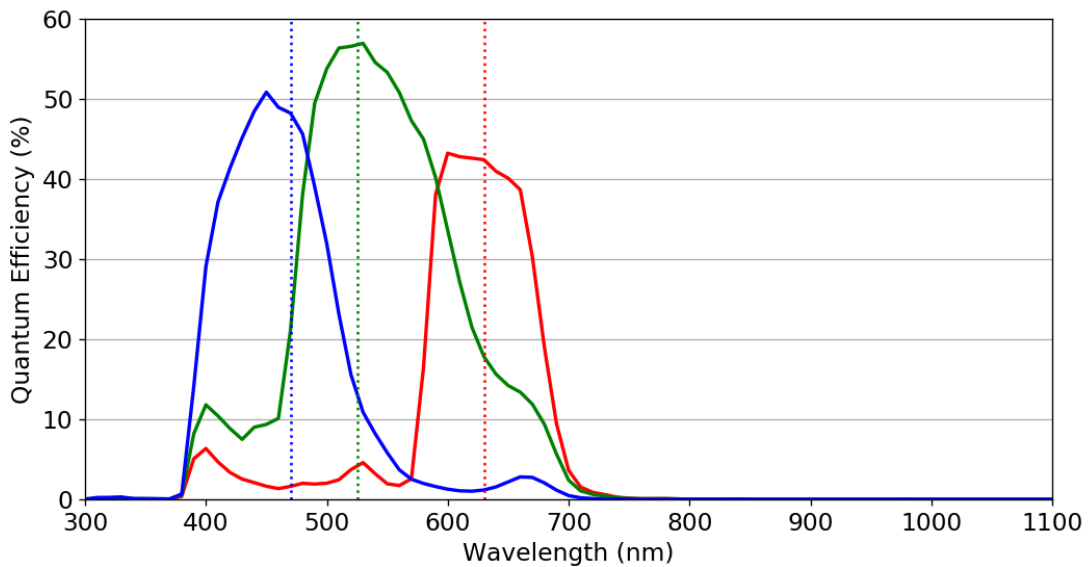
© 2016-2022 FLIR Integrated Imaging Solutions Inc. All rights reserved.



Blackfly S BFS-U3-200S7M Spectral Response Curve



Blackfly S BFS-U3-200S7C Spectral Response Curve



11/2/2022

Names and marks appearing on the products herein are either registered trademarks or trademarks of FLIR Systems, Inc. and/or its subsidiaries.

© 2016-2022 FLIR Integrated Imaging Solutions Inc. All rights reserved.