

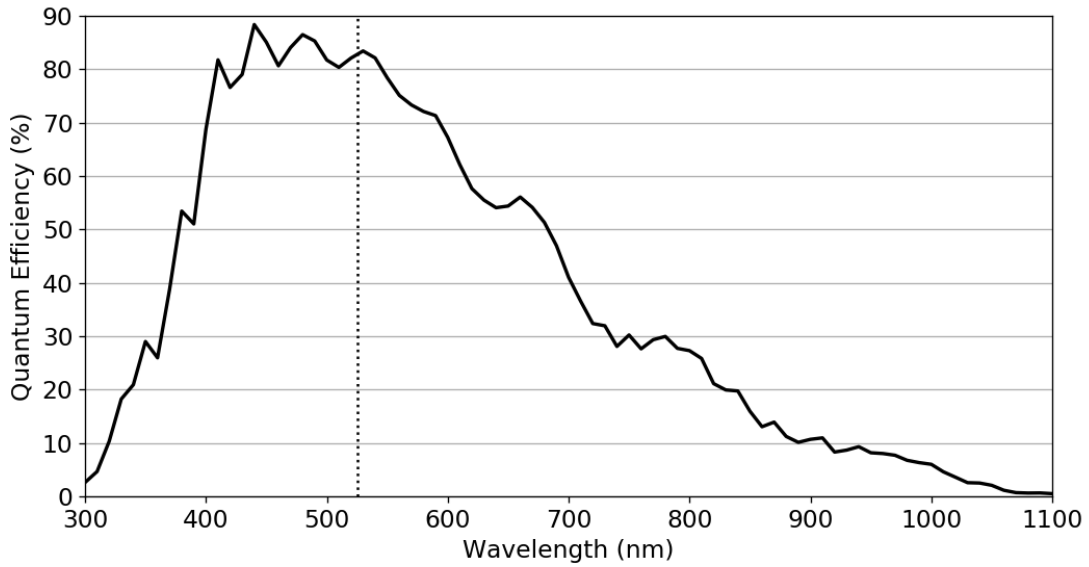
# DRAGONFLY<sup>®</sup> S

## DR-U3-50Y2

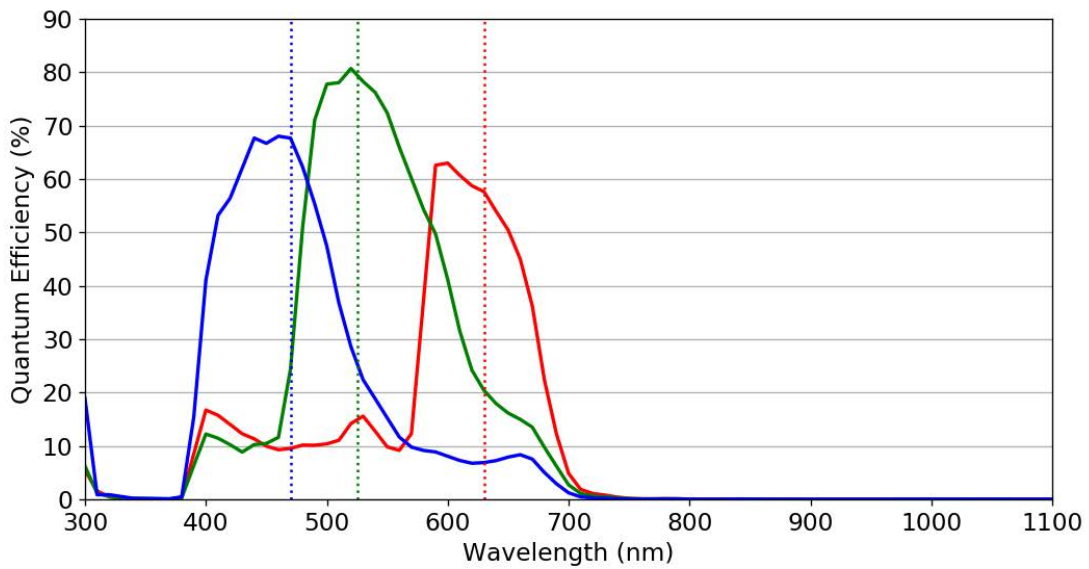
Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C).

	Dragonfly S DR-U3-50Y2M	Dragonfly S DR-U3-50Y2C
<b>Resolution</b>	2592x1944	2592x1944
<b>Sensor</b>	onsemi AR0521, CMOS, 1/2.5	onsemi AR0521, CMOS, 1/2.5
<b>Pixel Size (µm)</b>	2.2	2.2
<b>Firmware Version</b>	2410.0.13.0	2410.0.13.0
<b>ADC Bit Depth</b>	12	12
<b>Quantum Efficiency Mono (% at 525 nm)</b>	79.55	N/A
<b>Quantum Efficiency Blue (% at 470 nm)</b>	N/A	65.13
<b>Quantum Efficiency Green (% at 525 nm)</b>	N/A	74.68
<b>Quantum Efficiency Red (% at 630 nm)</b>	N/A	47.92
<b>Temporal Dark Noise (Read Noise) (e-)</b>	2.97	3.16
<b>Temporal Dark Noise (Read Noise) (DN)</b>	18.74	19.45
<b>Signal to Noise Ratio Maximum (dB)</b>	40.15	40.29
<b>Signal to Noise Ratio Maximum (Bits)</b>	6.67	6.69
<b>Absolute Sensitivity Threshold (γ)</b>	4.47	5.02
<b>Absolute Sensitivity Threshold (e-)</b>	3.56	3.75
<b>Saturation Capacity (Well Depth) (e-)</b>	10343	10681
<b>Saturation Capacity (Well Depth) (γ)</b>	13001	14304
<b>Dynamic Range (dB)</b>	69.27	69.09
<b>Dynamic Range (Bits)</b>	11.50	11.48
<b>Gain (e-/ADU)</b>	0.16	0.17

### Dragonfly S DR-U3-50Y2M Spectral Response Curve



### Dragonfly S DR-U3-50Y2C Spectral Response Curve



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