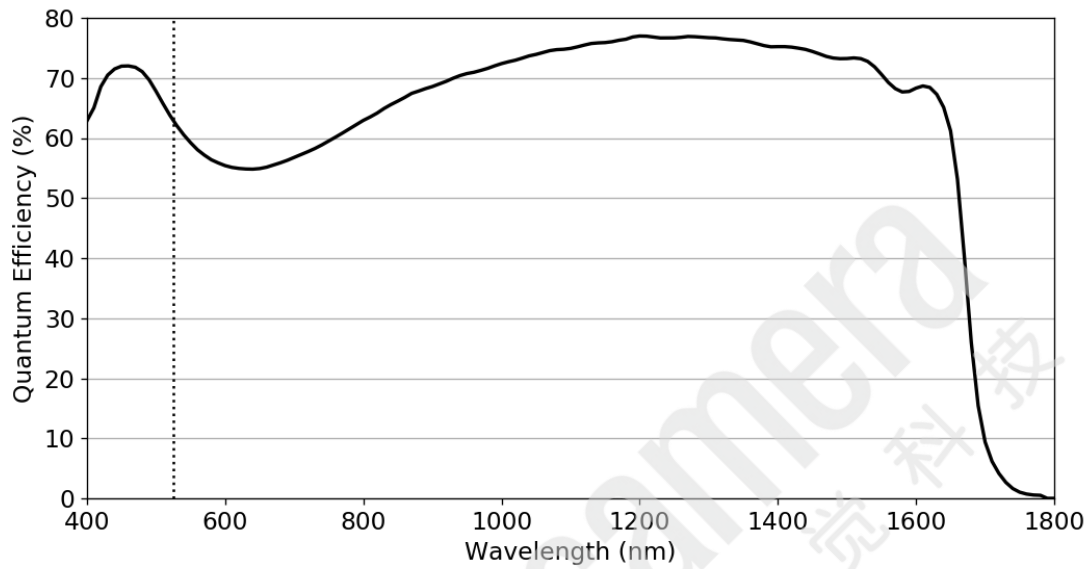# EMVA 1288 IMAGING PERFORMANCE

FORGE® 1GIGE SWIR

FG-PGE-13S3S-U

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).

	Forge FG-PGE-13S3S-U
Resolution	1280x1024
Sensor	Sony IMX990-AABJ (TECless), InGaAs, 1/2
Pixel Size (µm)	5
Firmware Version	2406.1.13.0
ADC Bit Depth	12
Quantum Efficiency Mono (% at 525 nm)	62.90
Quantum Efficiency Blue (% at 470 nm)	N/A
Quantum Efficiency Green (% at 525 nm)	N/A
Quantum Efficiency Red (% at 630 nm)	N/A
Temporal Dark Noise (Read Noise) (e-)	255.63
Temporal Dark Noise (Read Noise) (DN)	88.10
Signal to Noise Ratio Maximum (dB)	52.67
Signal to Noise Ratio Maximum (Bits)	8.75
Absolute Sensitivity Threshold (γ)	408.24
Absolute Sensitivity Threshold (e-)	256.48
Saturation Capacity (Well Depth) (e-)	184780
Saturation Capacity (Well Depth) (γ)	293768
Dynamic Range (dB)	57.15
Dynamic Range (Bits)	9.49
Gain (e-/ADU)	2.91
Dark Current (e-/s) @ Sensor Board Temperature	37828.70 @ 40.0°C

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Forge FG-PGE-13S3S-U Spectral Response Curve

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