

VERY HIGH SPEED 2.2 μm InGaAs SWIR CAMERA



SWIR extended range
1.3 - 2.2 μm



600 FPS






60 e- RON



InGaAs 640x512
15 μm pixel pitch



SDK compatible with
 μ Manager, LabVIEW, , , 

FAST EXTENDED SWIR



APPLICATIONS

ASTRONOMY:

Adaptive Optics
Astronomical Observations
Hyperspectral Imaging
Laser Communications

INDUSTRY:

Multispectral Imaging
Quality/Production control
Laser
Sorting

LIFE SCIENCES:

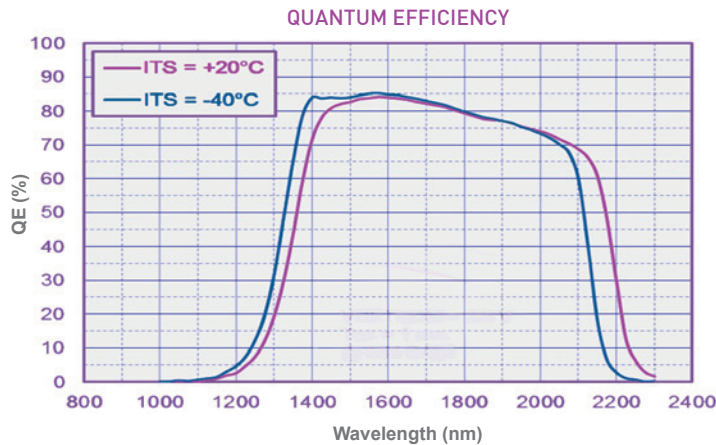
OCT Imaging
Bio Imaging
Spectroscopy
Fluorescence Microscopy

C- RED 2 EXTENDED RANGE PROVISIONAL PERFORMANCES

TEST MEASUREMENT*	Result	Unit
Maximum speed Full Frame	600	FPS
Readout Noise at 400/600 FPS Full Frame @ 50µs Tint	60	e-
Dark Current + background @ - 60°C	60 000	e/p/s
Quantization	14	bit
Quantum Efficiency 1.4 to 2.0 µm	> 70	%
Operability	98	%
Image Full well capacity at low gain, 600 fps	1400	ke-
Image Full well capacity at med gain, 600 fps	96	ke-
Maximum speed in 32 x 4 (min)(option 600 fps)	32066	FPS
Maximum speed in 320 x 256 (option 600 fps)	1779	FPS

* Average values observed

ADDITIONAL FEATURES
Outputs: USB 3.1 Gen 1 or CL
Up to 5 µs electronic shutter
Optical interface: C-Mount
LVTTTL/LVDS synchronization
Software: SDK (C, C++, Python) / LabVIEW / µManager



FRAME RATE TABLE AT 600 FPS READOUT SPEED CAMERA LINK® OUTPUT

		Columns					
		32	64	128	256	512	640
Lines	4	32 066	31 512	30 458	28 548	25 367	24 029
	8	28 108	27 348	25 945	23 532	19 840	18 397
	16	22 542	21 631	20 015	17 413	13 819	12 526
	32	16 147	15 254	13 736	11 455	8 599	7 646
	64	10 302	9 596	8 440	6 801	4 898	4 297
	128	5 975	5 509	4 765	3 752	2 632	2 291
	256	3 247	2 975	2 547	1 978	1 367	1 184
	512	1 697	1 549	1 319	1 016	697	602

For USB 3 Output: Max 9999 FPS



SWaP : H55 x W75 x L140 mm, 0.9 kg

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