

## VERY HIGH SPEED COMPACT SWIR CAMERA



SWIR  
0.9 - 1.7  $\mu\text{m}$



600 FPS



<30 e- RON



640 x 512 InGaAs,  
15  $\mu\text{m}$  pixel pitch



93 dB and true 16 bits  
High Dynamic Range

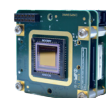


SDK compatible with  $\mu$ Manager, LabVIEW,

### UNCOOLED InGaAs WITH ADAPTATIVE BIAS



OEM module available - contact us



### APPLICATIONS

#### INDUSTRY:

Semiconductor Inspection  
Quality and Production control  
Waste sorting  
Non-destructive Testing  
Environmental monitoring  
Welding

#### LASERS:

Free Space Optics  
Laser alignment  
Laser Beam Profiling

#### SURVEILLANCE:

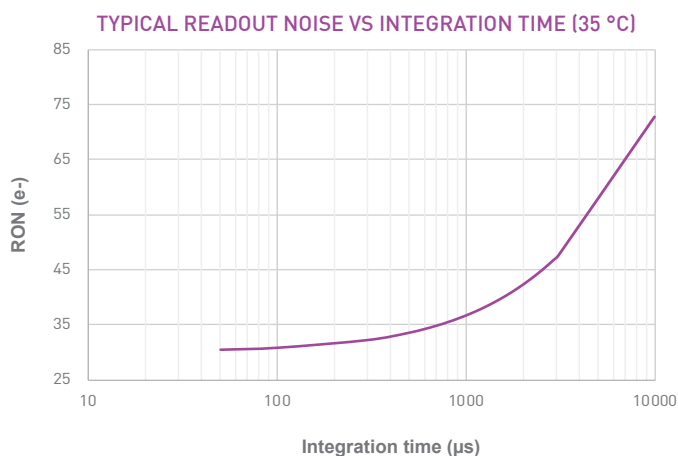
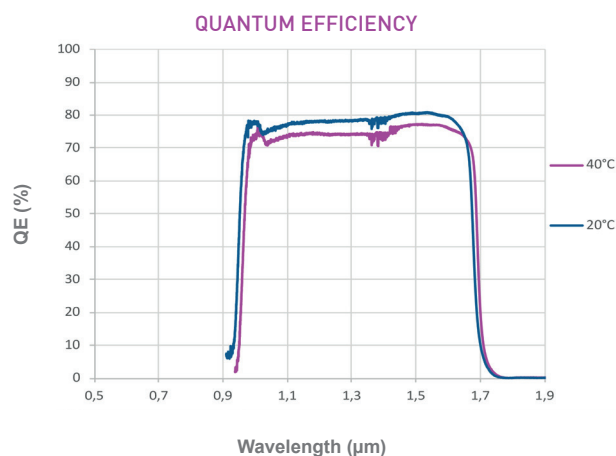
UAV  
Security

# C- RED 3 PERFORMANCES

FEATURES*	Result	Unit
Maximum speed Full Frame	600	FPS
Readout Noise at 600 FPS Full Frame @ 50 $\mu$ s Tint	< 30	e-
Quantization	14	bit
Flat Quantum Efficiency 1.0 to 1.65 $\mu$ m	> 70	%
Operability (at 20°C)	99.5	%
Image Full well capacity at low gain, 600 fps	1400	ke-
Image Full well capacity at high gain, 600 fps	33	ke-
<b>Maximum speed in 32 x 4 (min)</b>	<b>32066</b>	<b>FPS</b>
Maximum speed in 320 x 256	1779	FPS

\*Average values observed

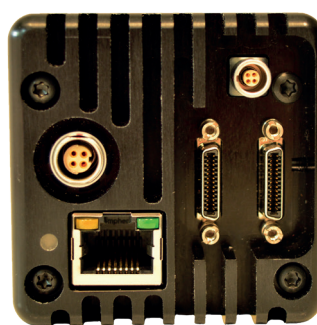
ADDITIONAL FEATURES
Outputs: USB 3.1 Gen 1 or CL
Possible optical interface: C-Mount, CS-Mount, T-Mount
LVTTTL Synchronization (5 V tolerant)
HDR : 93 dB and 16 bits
Software: SDK (C, C++, Python) / LabVIEW / $\mu$ Manager
Cooling adapter for thermal regulation



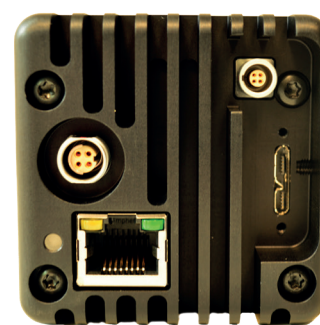
FRAME RATE TABLE AT 600 FPS READOUT SPEED CAMERA LINK® OUTPUT

		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



With Camera Link® Output



With USB 3 Output

SWaP : H55 x W55 x L60 mm, 230 g, 6.5W typical

**First Light Imaging SAS**  
 Europarc Sainte Victoire Bât 6, Route de Valbrillant, Le Canet 13590  
 Meyreuil FRANCE  
 Tel.: + 33 4 42 61 29 20  
[www.first-light-imaging.com](http://www.first-light-imaging.com)  
[contact@first-light.fr](mailto:contact@first-light.fr)

**First Light Imaging Corp.**  
 185 Alewife Brook Parkway, Suite 210, Cambridge, MA 02138 USA  
[www.first-light.us](http://www.first-light.us)

