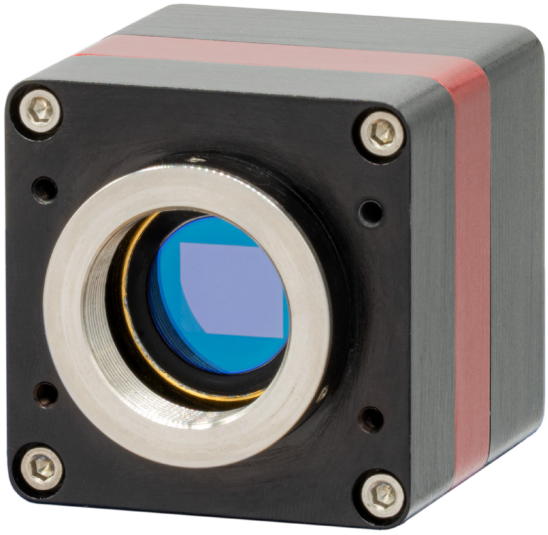
Raptor photonics

OWL 2560

2560 x 2048,VIS-SWIR Camera

Preliminary



CoaXPress®

Key Features and Benefits

- **2560 x 2048,3.45µm pitch VIS-SWIR sensor**
  5MP resolution imaging from 0.4µm to 1.7µm
- **On-board Intelligent 3 point NUC and ALC**
  Real time, optimal video in all light conditions
- **Designed for Harsh enviroments**
  High Shock, Vibration and extreme Temperature resistance
- **Global Shutter**
  60Hz full frame video, with no distortion (ideal for triggering)
- **Low Noise Electronics**
  No artifical noise added, optmising low light capability

Resolution	2560 x 2048
Frame Rate	up to 60Hz
CoaXPress	12 bit
Wavelength Range	0.4 to 1.7µm

Specification for Owl 2560

Sensor	InGaAs Photodiode
Active Pixel	2560 x 2048
Pixel Pitch	3.45µm x 3.45µm
Active Area	Diagonal 11.4 mm Type 1/1.4
Spectral Response[1]	0.4µm to 1.7µm
Readout Noise (RMS)[2]	LG: <150e HG: <90e
Peak Quantumn Efficeny	>75% @ 1.2µm
Full Well Depth	LG: 45ke- HG: 20k
Digital Output Format	12 bit
Shutter Mode	Global Shutter
Frame Rate	60Hz @12 bit
Optical Interface	C Mount (selection of SWIR Lens available)
Trigger Interface	Trigger IN and OUT- TTl compatible
Power Supply	12V DC ± 0.5V
TE Cooling	Active
Interface	CXP- 6 Single Lane
Operating Temperature[3]	-20˚C to + 55˚C
Storage Temperature	-55˚C to + 85˚C
Dimensons (excluding standard mounting)[4]	50 x 50 x 52 No Beard

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Specification for Owl 2560

Camera

OWL 2560 Digital Camera	OW1.7-VS-CXP-2560
Power Supply Cable	RPL-xx-xx

Optional Accessories

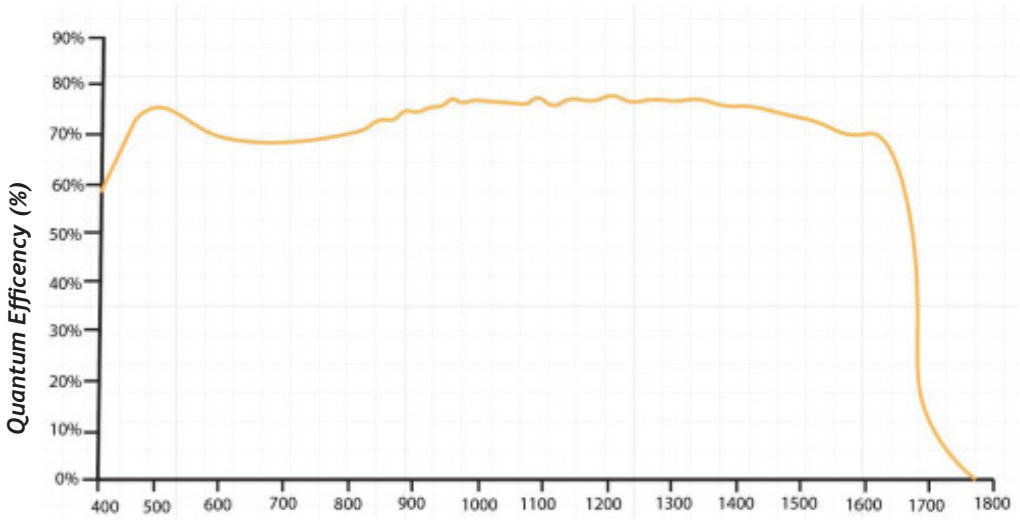
Optical SWIR Lenses[5]	RPL-xx-xxx

Custom Options

- No C-Mount, M42
- Board Level
- Extended operational temp -40˚C to +71˚C
- Flexi-rigid electronics to fit specfic EO Systems
- Customized mechanics

Applications

- HD Long range day/night SWIR imaging
- Active Imaging
- Airborne and Ground Payload
- Handheld Systems
- Imaging through Fog
- Range Finding
- Driving Vision Enhancement (DVE)
- Space Situational Awareness
- Earth Observation



*Data Supplied by Sensor Manufacturer

For detailed tehnical drawings, volume pricing or to set up a demo, contact us at sales@raptorphotonics.com

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Raptor photonics

Willowbank Business Park
Larne, Co Antrim
BT40 2SF,
Northern Ireland

Raptor Photonics Ltd. (UK)
T: +44 (0) 2828 270 141
E: sales@raptorphotonics.com
www.raptorphotonics.com

Raptor Photonics Inc. (USA)
T: +1 (877) 230-4836
E : sales@raptorphotonics.com
www.raptorphotonics.com

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