Owl 320 HS SWIR

High sensitivity, digital SWIR camera 320 x 256 • Frame Rate from 25 to 346 Hz • SWIR Technology •





Key Features and Benefits

SWIR technology

- SWIR technology
 Enables high sensitivity imaging from 0.9μm to 1.7μm
- Easy control of camera parameters

 Control of Exposure, Frame rate, Gain, Temperature, trigger, etc
- Ultra compact, Low power (< 5W)
 Ideal for hand-held, mobile or airborne systems
- Rugged, No fan
 Enables integration into UAV, handheld or Electro-Optic systems

Resolution	320 x 256
Frame Rate	25 to 346 Hz
CameraLink	14bit
Wavelength Rar	ige SWIR



Specification for Owl 320 HS SWIR

Sensor Type	InGaAs PIN-Photodiode
Active Pixel	320 x 256
Pixel Pitch	30μm x 30μm
Active Area	9.6mm x 7.68mm
Spectral response ¹	0.9μm to 1.7μm
Noise (RMS) - Typical	<225 electrons high gain
Quantum Efficiency	>70% @ 1.5μm
Pixel Well Depth - Typical	High Gain: >150Ke-
Pixel Operability	>99%
Digital Output Format	14 bit CameraLink (Base Configuration)
Exposure time	500ns to more than 500ms
Frame Rate	Up to 346Hz
Camera Setup / Control	CameraLink
Trigger interface	TTL trigger IN level
Image Correction	2 point NUC (offset & gain) + pixel correction
Optical Interface	C mount (selection of SWIR lens available)
Power supply	12V DC ±10%
TE Cooling	ON / OFF
Camera Power Consumption ²	< 5W without TEC
Operating Case Temperature ³	-20°C to +55°C
Storage Temperature	-30°C to +60°C
Dimensions and Weight	62mm x 68mm x 50mm / 390g
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Ordering Information

Camera

OWL SWIR digital camera OW1.7CL-A

OWL Power Supply Cable RPL-HR12-CBL-B

Optional Accessories

EPIX(R) EB1 base CL card RPL-EPIX-EB1

EPIX(R) base notebook CL card RPL-EPIX-ECB1-34

EPIX(R) base notebook CL card RPL-EPIX-ECB1-54

EPIX(R) Xcap STD sofware RPL-XCAP-STD

CameraLink Cable, 2m⁴ RPL-CL-CBL-2M

Optical lenses⁵ RPL-xx-xxxx

Note 1: Optional filters available: Low, High or bandpass

Note 2: Additional up to 5W with TEC switched on

Note 3: Extended Operating Temperature range on request

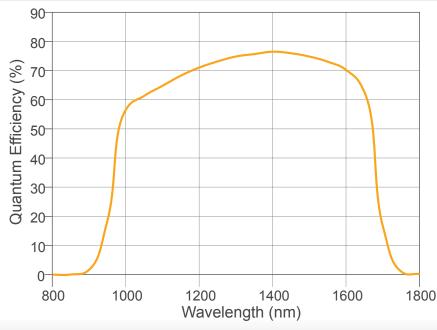
Note 4: Longer CL cable available

Note 5: Please consult us to check our range of lenses

Demo is available on request. Pricing AOR subject to volumes.

Detailed technical drawings can be downloaded at www.raptorphotonics.com

Quantum Efficiency



Applications

Scientific

- Astronomy
- Beam Profiling
- Hyperspectral Imaging
- Semiconductor Inspection
- Solar Cell Inspection
- Thermography

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