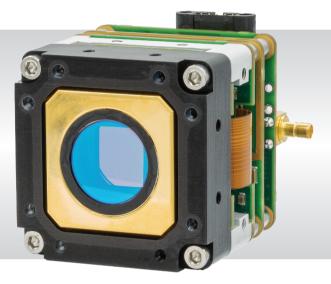




Owl 1280 SDI - OEM ONLY

High resolution, High Sensitivity, Digital VIS-SWIR camera 1280 x 1024 \cdot 10 μm x 10 μm Pixel Pitch \cdot 28e- readout noise \cdot



Key Features and Benefits

The best performing HD VIS-SWIR camera in the World!

• 1280 x 1024, 10µm pitch VIS-SWIR technology Resolution 1280 x 1024 Enables highest resolution imaging from 0.6µm to 1.7µm • 28e- electrons readout noise 30Hz Frame rate Enables highest VIS-SWIR detection limit On-board Automated Gain Control (AGC) HD-SDI 1080p/30 Enables clear video in all light conditions Wavelength Range **VIS-SWIR** On-board Intelligent 3 point NUC Enables highest quality photos HD-SDI SMPTE-274M Provides full HD resolution 1080p/30







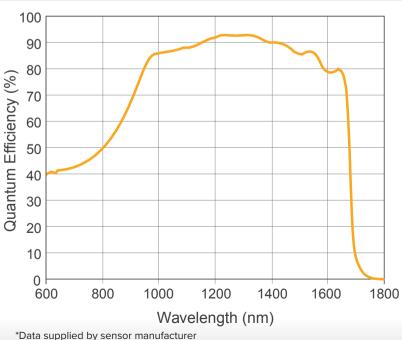
Instrument Expert Original factory packaging www.dorgean.com

Specification for Owl 1280 SDI

InGaAs PIN-Photodiode 1280 x 1024 10μm x 10μm
10µm x 10µm
12.8mm x 10.24mm
0.6µm to 1.7µm
LG: <190 electrons (160 electrons typical) HG: <50 electrons (28 electrons typical)
>90% @ 1.3μm
LG: 450ke- HG: 10ke-
>99.5%
10 bit serial SMPTE274M 1080 p/30
LG: 50µs to 25.8ms
Global shutter
30Hz
RS422
C mount (selection of SWIR lens avaliable)
LG: 69dB, HG: 51dB
Trigger IN and OUT - TTL compatible
12V DC ±0.5V
Active
3 point NUC (offset, Gain & Dark Current) + pixel correction
Exposure, intelligent AGC, Non Uniformity Correction, Gamma, Pk/Av, TEC, ROI
<8W with TEC ON, NUC ON
-40°C to +71°C
-55°C to +85°C
68.8mm x 46.0mm x 49.5mm
200g

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Quantum Efficiency



Ordering Information

Camera	
Owl 1280 Digital Camera	OW1.7-VS-SD-1280-OEM4
Power Supply Cable	RPL-M80-9411005
Optional Accessories	
Optical Lenses ⁶	RPL-xx-xxxx
Note 1: Optional filters available: Low, High or bandpass. Note 2: Typical readout noise is calculated from an average of the last 20 cameras shipped. Note 3: Measured in an ambient of 25°C with adequate heat	
sinking. For more detailed power consumption values, please refer to the user manual.	
Note 4: Extended operating temperature range on request.	

Note 5: Dimensions include all connector parts on the camera interface.

Note 6: 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

Applications

Surveillance

- HD long range day / night SWIR imaging
- Airborne and Ground Payload
- Hand Held Systems
- Driving Vision Enhancement (DVE)
- Airborne EVS
- Vision enhancement

Scientific

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

*Data supplied by sensor manufacturer



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CL. ISO 900

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