

NEWSPACE MARKET · COMPANY PROFILE



Raptor Photonics

United Kingdom · raptorphotonics.com

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WITH DATASHEETS

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as of 20 August 2026



Raptor Photonics

Raptor Photonics is a specialist imaging company headquartered in Northern Ireland, UK, developing and manufacturing high-performance CCD, CMOS, and short-wave infrared (SWIR) cameras for scientific, surveillance, industrial OEM, and space applications. The company has developed unique space heritage, with cameras flying in optical payloads on multiple live LEO CubeSat missions at altitudes between 160 and 2,000 kilometres, some of which have been operational for over 36 months. Raptor's space camera portfolio includes deep-cooled back-illuminated CCD cameras in the Eagle series (optimised for low dark current and high quantum efficiency from UV to near-IR), the RCMOS space-qualified CMOS camera, and extended-SWIR (eSWIR) cameras including the Ninox eSWIR 640 and Sterling series, which extend imaging capability to wavelengths beyond 2 microns for hyperspectral, surveillance, and remote sensing payloads. All space-heritage cameras are supplied with 7-year vacuum sealing guarantees and are designed for direct integration into CubeSat optical payloads. Raptor also serves the ground-based scientific, surveillance, and industrial inspection markets, offering a broad range of EMCCD, SCMOS, CCD, CMOS, Vis-SWIR, SWIR, and hyperspectral cameras available for immediate delivery.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Aftersales Service and Support

Raptor Photonics offers comprehensive aftersales service and support, from initial camera solution definition through the entire project/product lifecycle.

Assistance with Camera Commands and SDKs

Raptor Photonics assists customers with camera commands and SDKs, particularly for CameraLink-based cameras and third-party frame grabber cards.

Custom Solutions to OEM and Instrumentation Companies

Raptor Photonics provides custom camera solutions tailored to the specific imaging and detection requirements of OEM and instrumentation companies worldwide.

Extended Warranty Packages

Raptor Photonics offers extended warranty packages beyond the standard one-year warranty, providing additional levels of service and support.

Sensor Damage Replacement Scheme

Raptor Photonics offers a scheme to replace laser-damaged sensors in their cameras at a reduced cost within the first two years of ownership.

Product catalogue



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Eagle 47-10 Space Camera

Deep-cooled back-illuminated IMP CCD space camera with 7-year vacuum guarantee and >90% QE at 525 nm for LEO CubeSat optical payloads.

Sensor	Back-illuminated IMP CCD (Teledyne e2v)
Pixel size	13 µm x 13 µm
Peak QE	>90% @ 525 nm; 50% @ 380 nm and 720 nm
Cooling	Deep-cooled to -90°C (liquid-assisted) or -80°C (air only)
Vacuum guarantee	7 years
Shutter	C-mount integrated, closes during readout (no vertical smear)
Space heritage	Flying on multiple LEO CubeSat missions (160–2,000 km), >36 months operational

price on request



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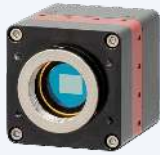
Hawk 1920

The Hawk 1920 is a ruggedized camera based on Sony's Pregius sensor, offering high sensitivity and QE up to 75% for demanding applications including space, airborne, and surveillan

Resolution	1944 x 1472
Pixel Pitch	4.5µm
Technology	CMOS
Spectral Range	0.3µm to 1.1µm
QE	up to 75%
Frame Rate (full-frame)	50Hz
Shutter Type	Global shutter

price on request

datasheet



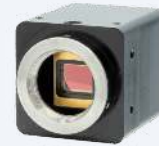
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Owl 1280

High-sensitivity 1280 x 1024 InGaAs SWIR camera (0.6–1.7 μ m) with Camera Link output, 10–60Hz frame rate, and an OEM HD-SDI variant, for surveillance and scientific imaging.

Sensor	1280 x 1024 InGaAs
Spectral range	0.6 μ m to 1.7 μ m
Pixel pitch	10 μ m x 10 μ m
Readout noise	<28 electrons (rms)
Intra-scene dynamic range	51dB
Digital output	12 bit medium Camera Link
Frame rate	10 to 60Hz

[price on request](#) [datasheet](#)



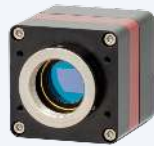
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Owl 640 M

TEC-less, low-power (<2.5W) variant of the Owl 640 SWIR camera, designed for compact OEM and machine vision integration.

Detector	InGaAs (VIS-SWIR)
Resolution	640 x 512 pixels
Pixel Pitch	15 μ m
Spectral Range	600–1700 nm
Dynamic Range	72 dB intrascene
Power	<2.5 W
Cooling	TEC-less (passive)

[price on request](#) [datasheet](#)



RAPTOR PHOTONICS

Owl 640 T

The Owl 640 T is a SWaP-optimised ½" VGA InGaAs SWIR camera with 10 μ m pixel pitch, low readout noise and on-board AGC/NUC, designed for OEM integration into electro-optic systems.

Sensor Format	½" / VGA InGaAs
Pixel Pitch	10 μ m x 10 μ m
Spectral Response	0.6 μ m to 1.7 μ m
Readout Noise	<50 Electrons
Intra-scene Dynamic Range	69dB
Output	12 bit Camera Link
Frame Rate	10 to 60Hz

[price on request](#) [datasheet](#)



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Raptor Photonics Space Camera Solutions

Raptor Photonics offers flight-ready COTS and custom OEM camera solutions for LEO CubeSat missions, covering UV to SWIR wavelengths. These cameras are SWaP optimized, athermalized,

Space Heritage	Cameras flying in optical payloads on several live LEO CubeSat missions
Operational Duration (LEO)	Over 36 months (some cameras)
Altitude (LEO)	160 to 2,000 kilometers
Speed (LEO)	Approximately 17,000 mph
Wavelength Range	UV (180nm) to SWIR (1700nm)
Platform Compatibility	1U to 10U (COTS/OEM designs), 1U-12U Payloads (structural design)
Operating Temperature	-40°C to +71°C

[price on request](#)



RAPTOR PHOTONICS

RCMOS Space Camera

Space-qualified CMOS camera for LEO CubeSat integration, combining compact form factor with high sensitivity across 0.3–1.1 μm .

Sensor type	CMOS, global shutter, progressive scan
Spectral range	0.3–1.1 μm (visible + NIR)
Variants	Mono and colour
Form factor	Compact and rugged for CubeSat integration
Space heritage	Operational on LEO CubeSat missions

price on request

Contact Raptor Photonics

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/raptor-photonics/>

<https://www.raptorphotonics.com>

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