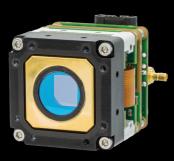
Quality Compliance and Sourcing

All components used in Raptor cameras are reputably sourced from approved ISO9001:2015 suppliers offering full traceability. We appreciate that our cameras end up in mission critical equipment, in both medical and surveillance applications where reliability and quality are paramount. We are 100% committed to preventing the use of any grey / counterfeit goods as components within our products. All suppliers are continuously monitored for compliance with RoHS, REACH and the Conflict Minerals rule, section 1502 of the Dodd-Frank Act (2010) using our Raptor Certified Supply Chain.



High Performance and Quality

Raptor cameras are well designed and expertly built. We carry the latest quality accreditation BS EN ISO 9001:2015 and IPC Class 3. All our cameras are built to MIL-STD-810F and MIL-STD-704F standards. This means our cameras are rugged and reliable.

Our cameras are designed for EMC & Environmental stress, shock & vibration. Our cameras are designed to work in harsh climates, with electronics operating from -40°C to +75°C. Our electronics are also conformally coated enabling them to work in high humidity or condensation environments in mission-orientated applications.

Raptor undertakes monthly audits of RMAs (returns). On a rolling 12 month basis RMAs have been <2% for the last 3 years. Our high quality manufacturing and QC testing means we rarely see cameras returned.

Raptor Manufacturing

We design and manufacture all of our camera solutions from our state-of-the-art headquarters in Larne, United Kingdom. Our 6,000 sq ft facility holds all our enhanced processes including our cleanroom and vacuum capabilities. Our manufacturing regime operates Kanban processes which enables short lead times and effective stock management. We welcome visits from OEM customers to see our facilities and meet our engineers.

Project Process

Every OEM project has a dedicated project manager, a lead engineer and an account manager to look after the technical, commercial and support aspects of each project. A typical project can take from a few weeks to several months depending on the complexity of the work involved. Customers sit in on regular update calls and sign off at every stage of the project.



Customer Support

We pride ourselves on our levels of customer support, knowing our customers and their needs very well.

All our products have a standard one-year warranty. We also offer a range of extended warranty packages which enable additional levels of service and support, both on-site and remote.

For further information, datasheets or to schedule a demo of any of our cameras, please refer to our website, or reach out to us directly:



Leaders in digital camera solutions

OEM CAMERA SOLUTIONS











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OEM 2021

Examples of OEM projects

Raptor is working with many major OEMs and instrumentation companies across the world in scientific, surveillance and industrial applications, who need custom designs to meet their exact imaging and detection requirements. We work collaboratively to understand their camera needs and develop robust solutions through a detailed project management system. We design and develop core camera platforms which can then be customised / tailored to address specific requirements. Our quality, reliability, flexibility, and fast delivery make us a very attractive solution for OEMs.

Vis-SWIR

0.6um - 1.7um

Raptor is the market leader in high-end SWIR and Vis-SWIR. We offer a range of OEM formats, perfect for EO integration where space is at a premium.

- Range of resolutions: 320 x 256, 640 x 512, 1280 x 1024 pixels
- Range of pixel pitches: 30μm, 15μm and 10μm
- SWIR and Vis-SWIR options, with low noise options (18e-typical)
- Cooling options including: TECless, Stabilized and Deep Cooled
- Extended operational temperature from -40°C to +75°C
- Firmware features including 3-point NUC, ALPD functionality, image flip, crosshair, edge & contrast enhancement

EMCCD

0.3μm - 1.1μm

Raptor has led the way in EMCCD cameras for both surveillance ruggedized board level cores through to high end deep-cooled scientific applications. We offer many formats and custom options including:

- Range of resolutions 128 x 128, 768 x 576, 1024 x 1024 pixels
- Range of pixel pitches: 26μm, 10μm and 8μm
- Range of frame rates from 25Hz to 1kHz full resolution
- Cooling options include deep cooled to -70°C
- Firmware features include Binning and ROIs



Electronic Design, Mechanical layout and Cooling

Raptor offers lots of design layout options to ensure the fit and performance of the camera meets the product requirements. Our R&D Engineers have a wealth of experience in firmware and application development, as well as mechanical layouts. Our proprietary low noise electronics ensure the highest quality images. Raptor offers a host of cooling and stabilising options using heat sinks, TECs, fans, liquid cooling and controlled chambers. We offer everything from uncooled board level solutions right through to vacuum cooled to -100°C.

CMOS

0.3µm - 1.1µm

Raptor offers a range of next generation digital CMOS mono cores, enabling ultimate sensitivity similar to Image Intensifier (II) or EMCCD, for passive digital night vision. These global shutter cameras are ultra-compact, rugged and low power making them ideal for a range of Electro Optic systems.

- Range of resolutions: 816 x 264, 1920 x 1080 pixels
- Range of pixel pitches: 9µm and 4.5µm
- Range of interfaces including Camera Link, HD-SDI, etc
- Other custom options available including sensors, mechanics, electronics and optics



Intensified CCD

 $0.2 \mu m - 0.85 \mu m$

Raptor designs and builds custom Intensified CCD cameras including:

- Gen II intensifier tubes
- 1024 x 1024 resolution
- 13µm pixels
- Nanosecond gating
- Custom interface
- 50% of the size and weight of competitors

Spectroscopy CCD

 $0.2 \mu m - 1.1 \mu m$

Raptor offers a range of CCD based cooled detectors to meet OEM requirements across a range of spectroscopy applications.

- FI/BI (DD) and OE options
- TE cooling to -40°C
- Range of resolutions and pixel sizes: 1024 x 256. 2048 x 264, 2048 x 512
- Choice of interfaces





Interface

Most of Raptor's off the shelf products use Camera Link to communicate with the processor. However, we appreciate that OEMs need a range of options so we can also deliver in HD-SDI, GigE, USB2/3 as well as custom digital output options, including Raptor's direct bus, enabling direct data from our camera to your system.







