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Opus Associates established by Laurence Robinson, is a consultancy specialising in the development of optical systems and products. We are a small well regarded team of optics experts with many years experience of product development. Whether you require a complex medical laser system designed and built to FDA standards or just a days help with your quality control system, we can offer highly experienced specialist consultants

We will work with you from the initial specification stage through the design and certification processes. Working closely with your production team, your requirements will be implemented quickly and efficiently in a robust and elegant design for manufacture.

[To view images of our mechanical design using CAD, click here.](#)

The skills available to our clients include:

- Optical design consultancy
- Optical expertise
- Electronic design and manufacture of audio to radio frequency analogue systems
- μ Processor based controllers
- Power supplies
- Digital systems
- Optical system design

- Laser systems
- Scanning systems
- Inspection
- Metrology
- Software
- μ P embedded software
- Graphical user interfaces

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Product Development

- [Aerospace](#)
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Medical

A Medical Laser for Photo Dynamic Therapy

Opus developed a laser system which delivers, via optical fibres, in excess of 1 Watt of power at 630nm. The system designed for use with specific cancer treating drugs was taken from the concept stage, through prototyping, FDA and Medical Device Directive approval and into manufacture by Opus. The project was carried out within 10 months.

Xray Film Laser Scanner

Opus developed a film scanner using polygon scanners, flat field scan lenses, and fibre optic fluorescence signal detection.

Hair Removal Laser System

The hand held instrument uses a high power Infra-red laser which is fibre coupled to a hand held scanner. The scanner uses 2 wedge scanners to scan a raster pattern over the patient. Incorporated under microprocessor control is a thermoelectrically cooled window for skin cooling, scan error checking and calibration. The system was designed and documented to FDA and MDD standards enabling early certification.

Optical Excellence



Inspection & Metrology

- [Groove Profile](#)
- [Automotive Catalyst](#)
- [Tube Straightness](#)
- [Liquid Flow](#)

Groove Profile

Groove Profile Measurement

Opus has developed a system for imaging and measuring deep grooves. It consists of a two laser beam illumination system. The first beam is a broad parallel beam which illuminates the surface. The second beam is focused close to the surface such that as it enters the groove it will illuminate the sides of the groove. The existing mechanical handling system is designed for the inspection of grooves in cylindrical parts. It uses a precision linear rail which transports the object to the mechanical stop.

Previously our client had to make an epoxy mould of the groove in order to check their manufacturing process. This new system offered a much quicker measurement method thereby reducing wastage and factory downtime.

Get in touch...

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Message

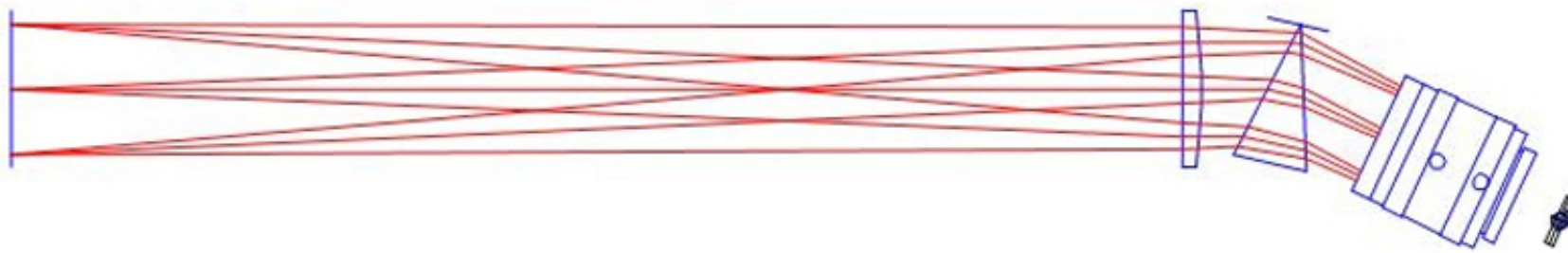
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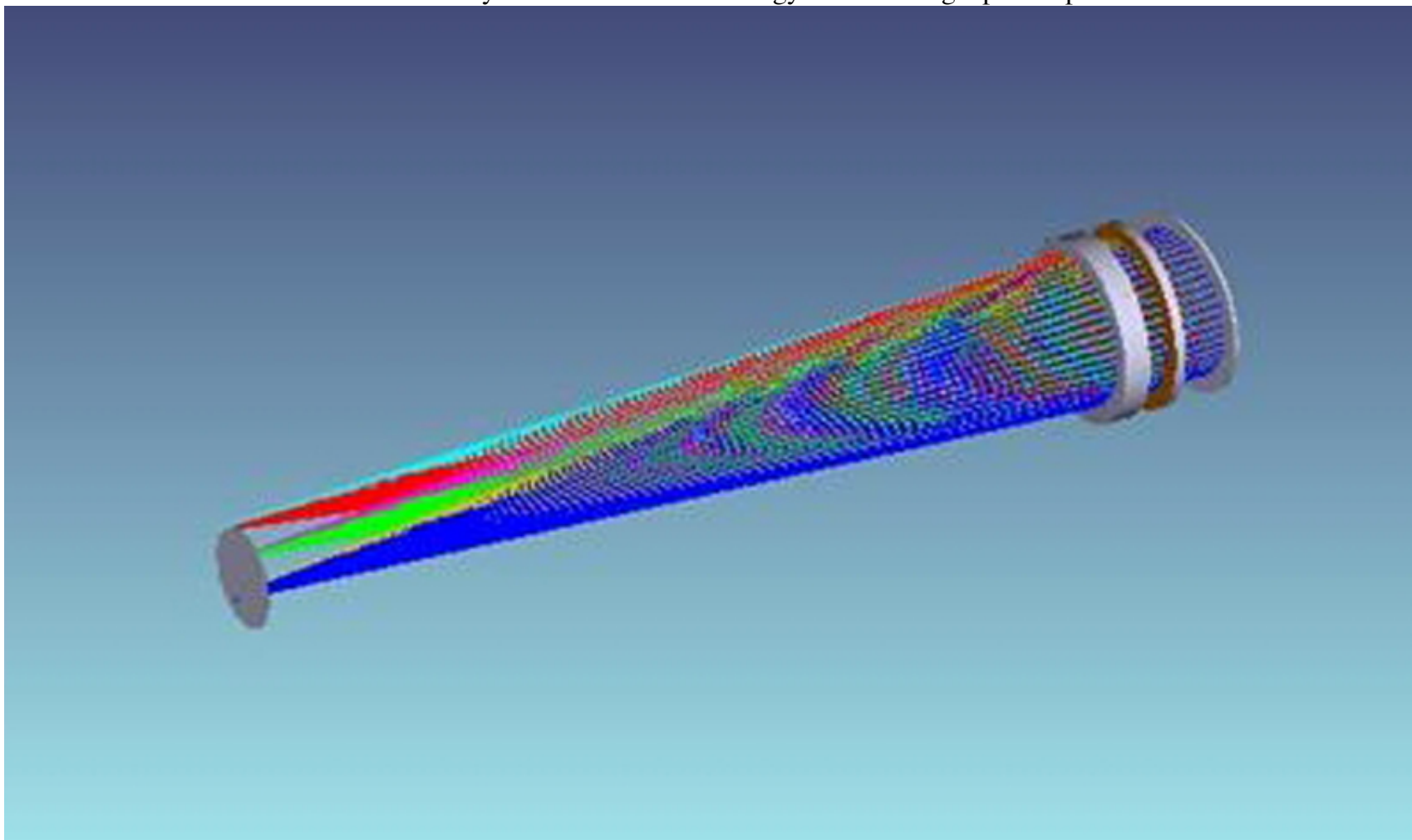
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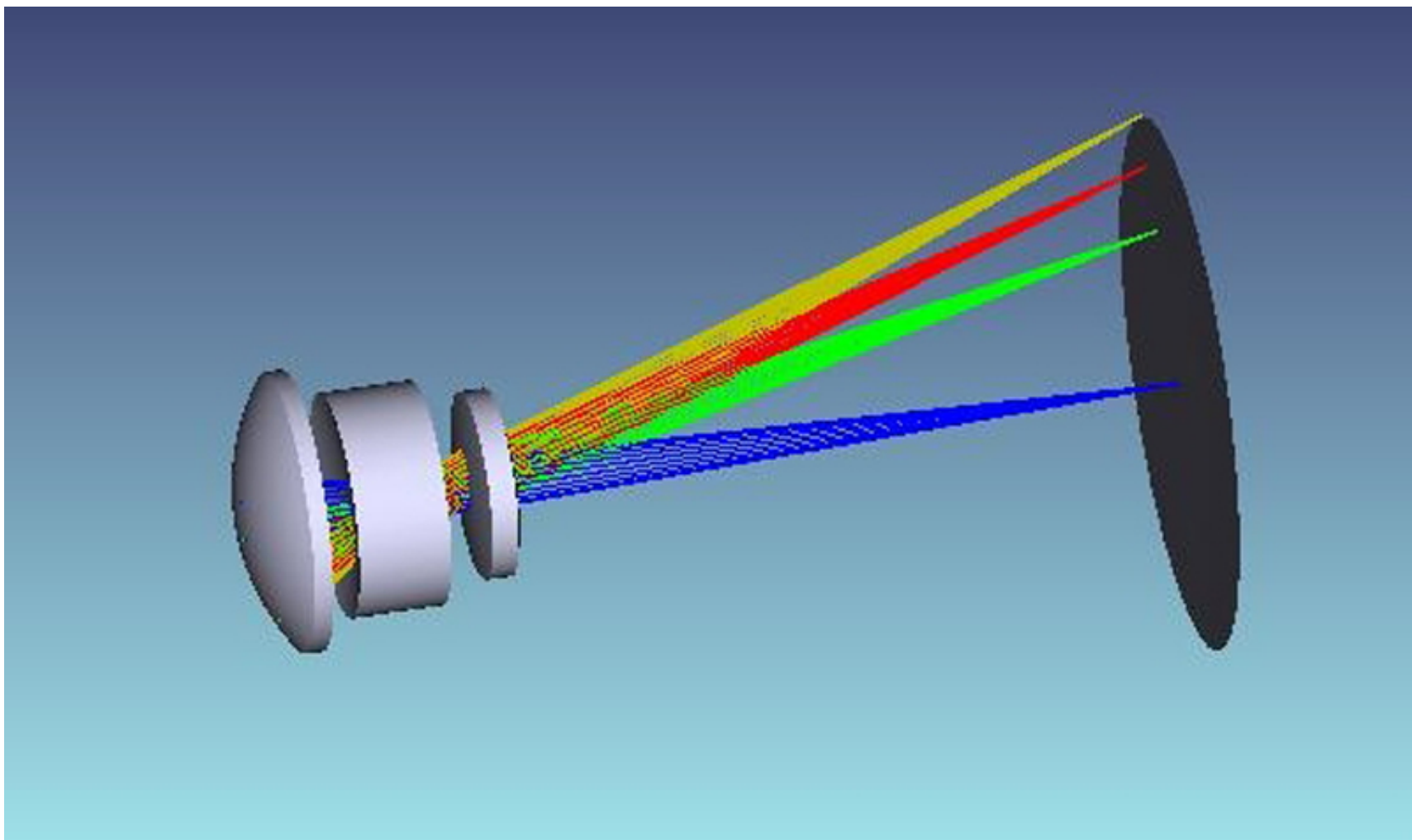
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fluorescence detection and measurement system for the biotechnology market using a prism spectrometer.

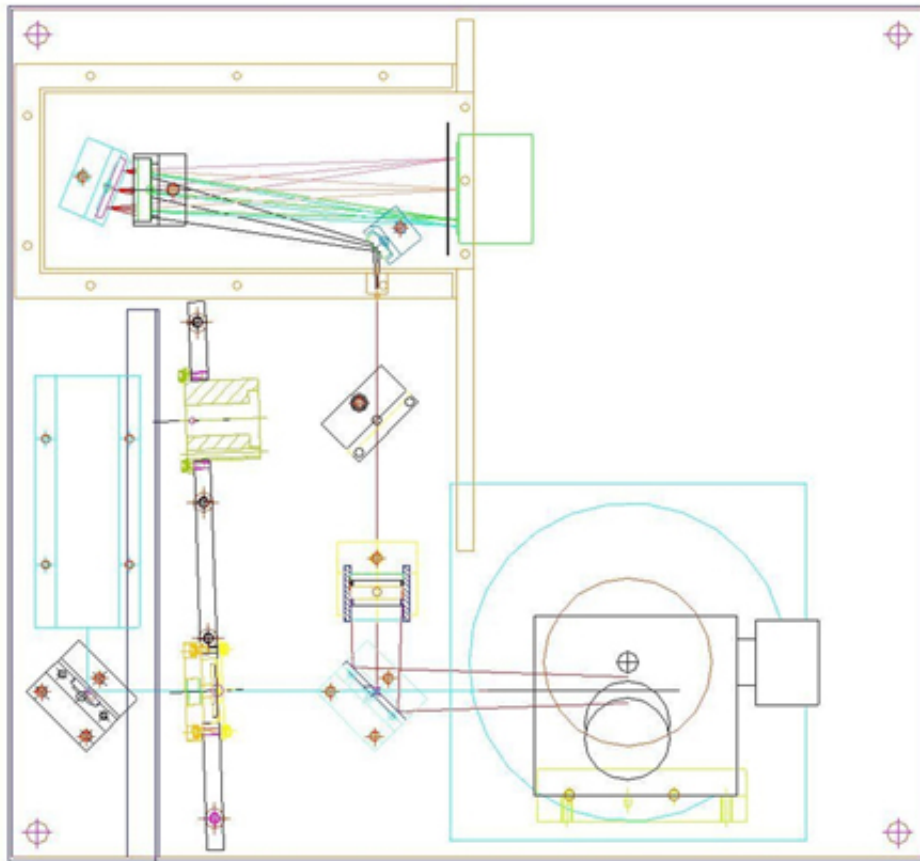
A non-scanning





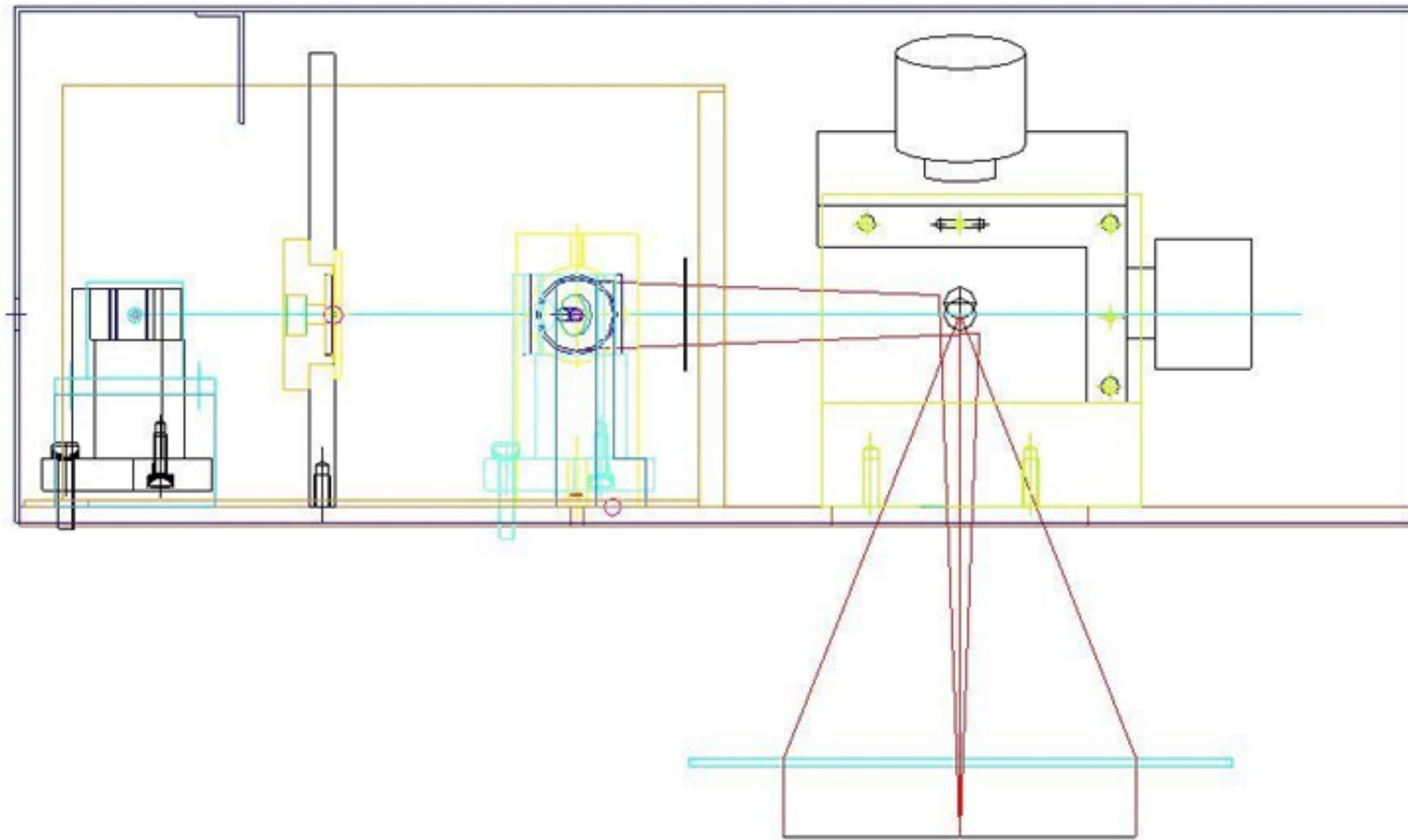
Specific Application.

A Cooke Triplet for a



laser over a 96 well microtitre plate & records the fluorescent signature from each well.

The test bed scans a



laser over a 96 well microtitre plate & records the fluorescent signature from each well

The test bed scans a



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