

- [Home](#)
- [About](#)
- [Product Development](#)
- [Inspection & Metrology](#)
- [Contact](#)

[Toggle Menu](#) [Close Menu](#)  
[Scroll down](#)

**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

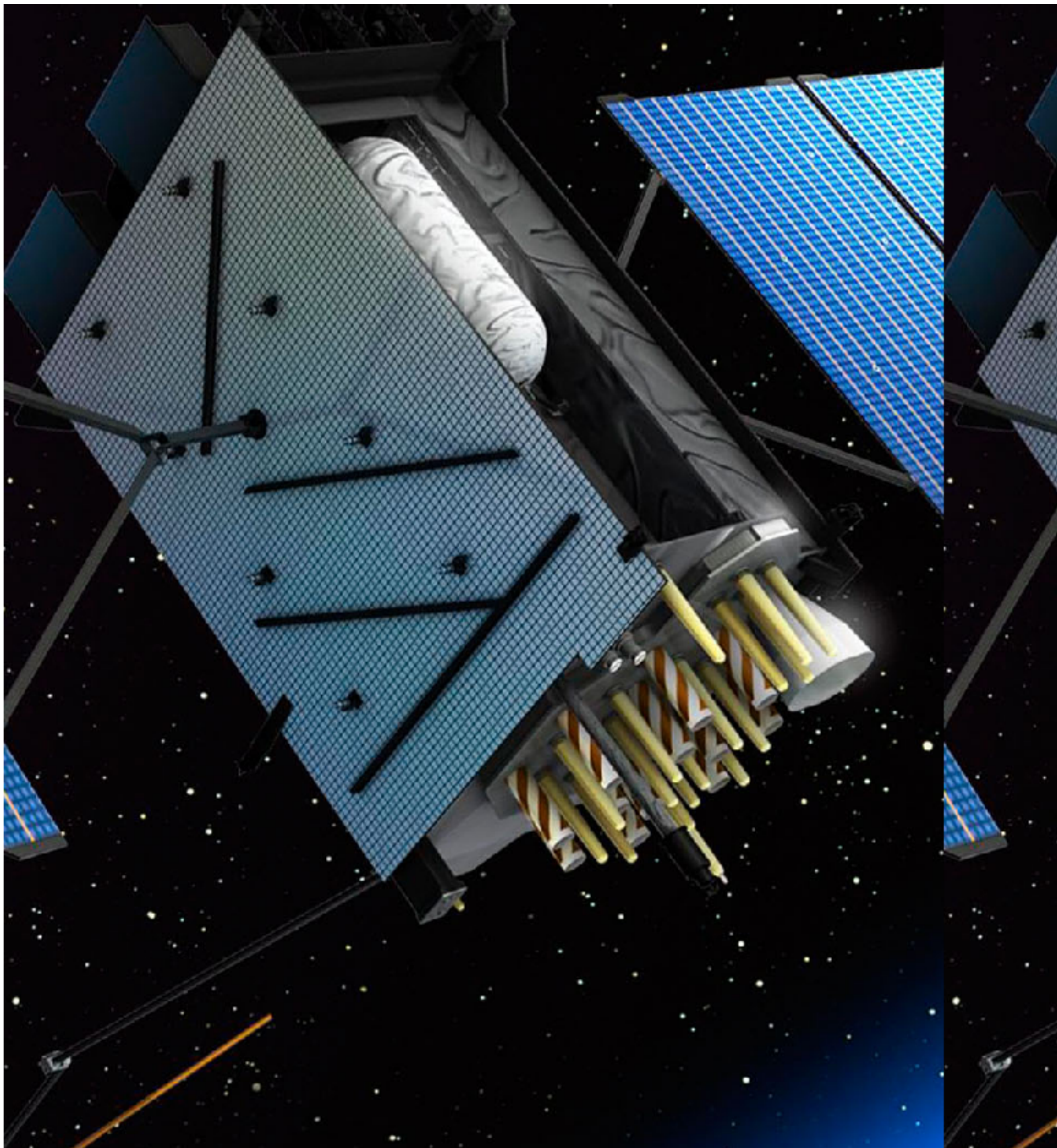
We will work with you from the initial specification stage through the design and certification processes. Working closely with your production team, your requirements will be implemented quickly and efficiently in a robust and elegant design for manufacture.

[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
- $\mu$ Processor based controllers
- Power supplies
- Digital systems
- Optical system design
  
- Laser systems
- Scanning systems
- Inspection
- Metrology
- Software
- $\mu$ P embedded software
- Graphical user interfaces

[Scroll down](#)



## Product Development

- [Aerospace](#)
- [Printing](#)
- [Medical](#)
- [Other](#)

## Aerospace

### A Precision Metrology System for Space Application

Opus has developed a system for assessing the performance of an instrument to be put into Earth orbit. The instrument comprises an actuation system that can move a 15 kilogram mass in all 6 axes. An optical system measures the movement in 5 axes to an absolute accuracy better than one percent and has a resolution 10 times greater.

### A Very High Resolution Target Projector

Opus staff developed a system for the projection of military targets onto large domes (~20 metre diameter). The system uses pulsed copper vapour lasers in combination with solid state image generators and scanning galvanometers to produce very high brightness TV rate images on the dome surface which allow identification of the target at projected ranges of 10km. The system is in use by the British Armed Forces and other NATO forces.

## 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...

**Address**

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64 Spring Lane  
Bassingbourn  
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Herts SG8 5HT

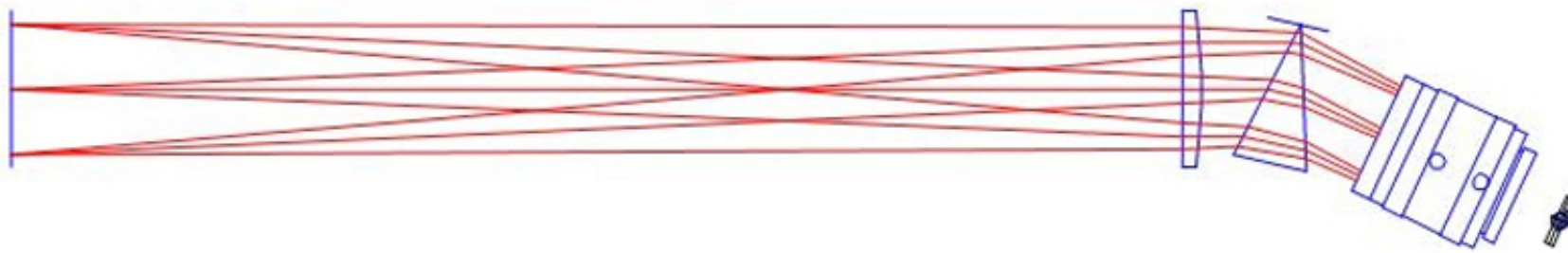
**Phone** +441763 250 722

**Email** [sales@opusassociates.co.uk](mailto:sales@opusassociates.co.uk)

 I am human

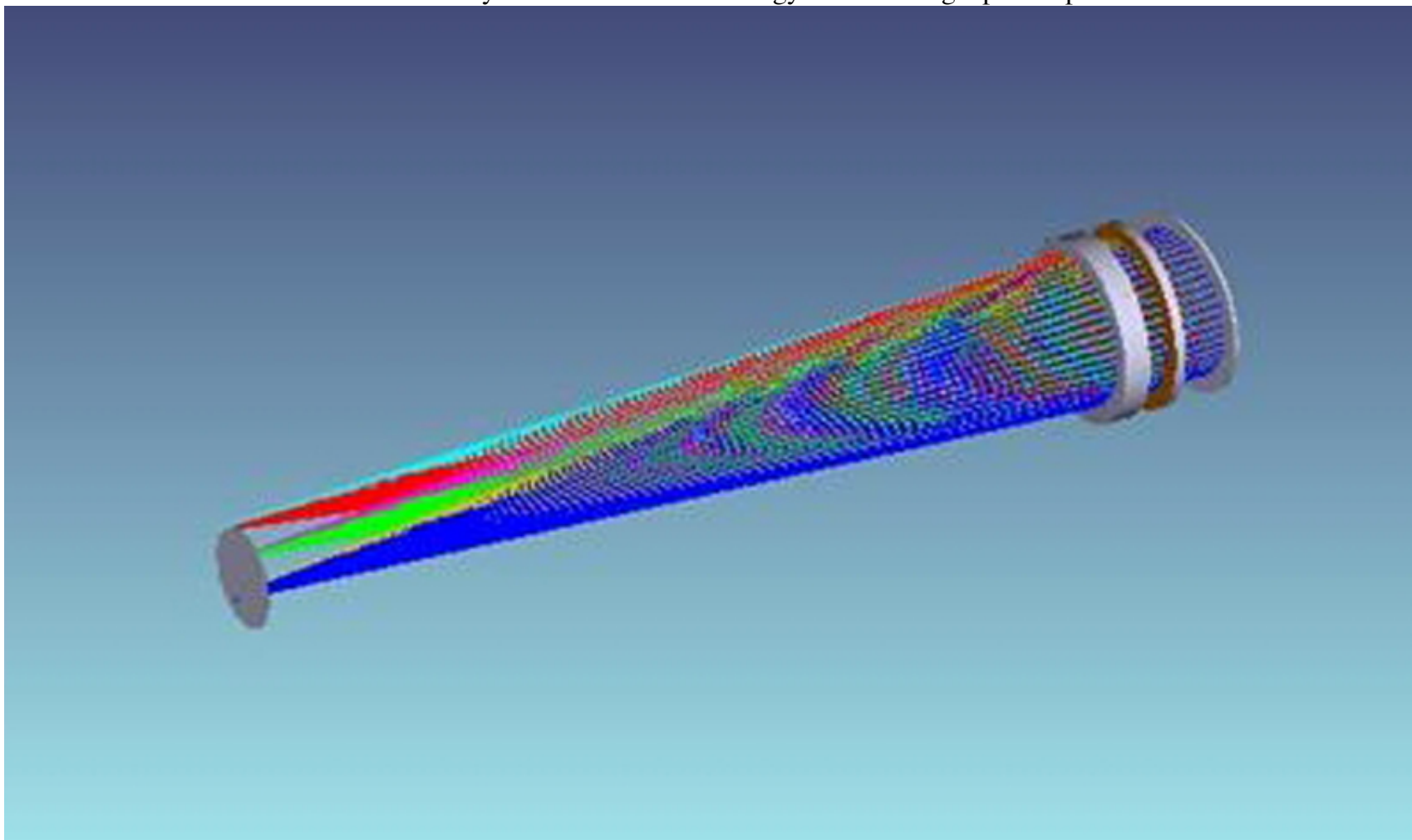
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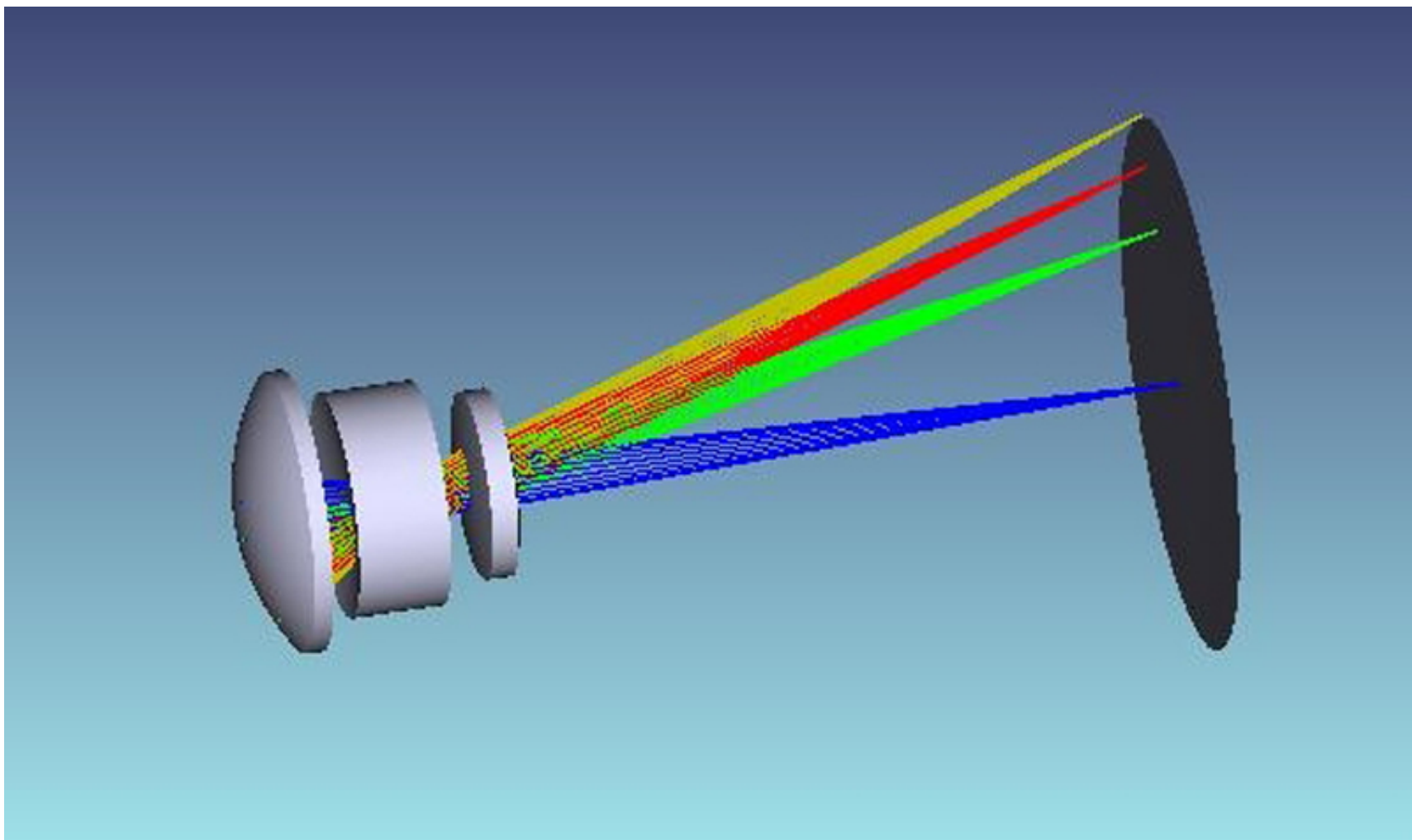
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fluorescence detection and measurement system for the biotechnology market using a prism spectrometer.

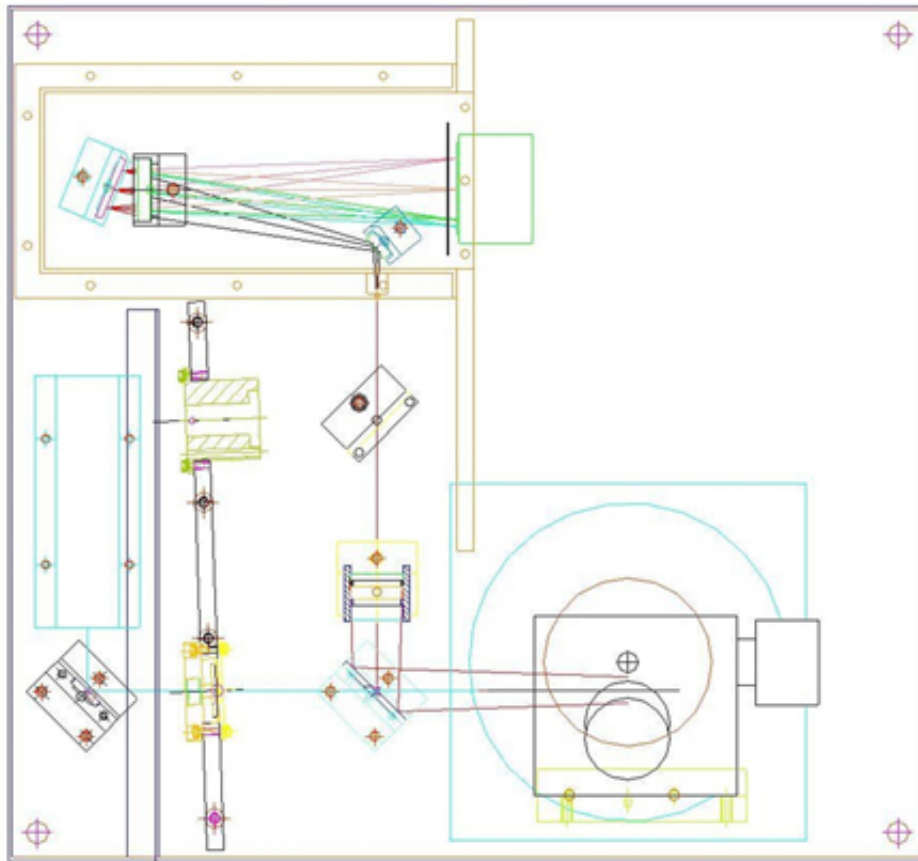
A non-scanning





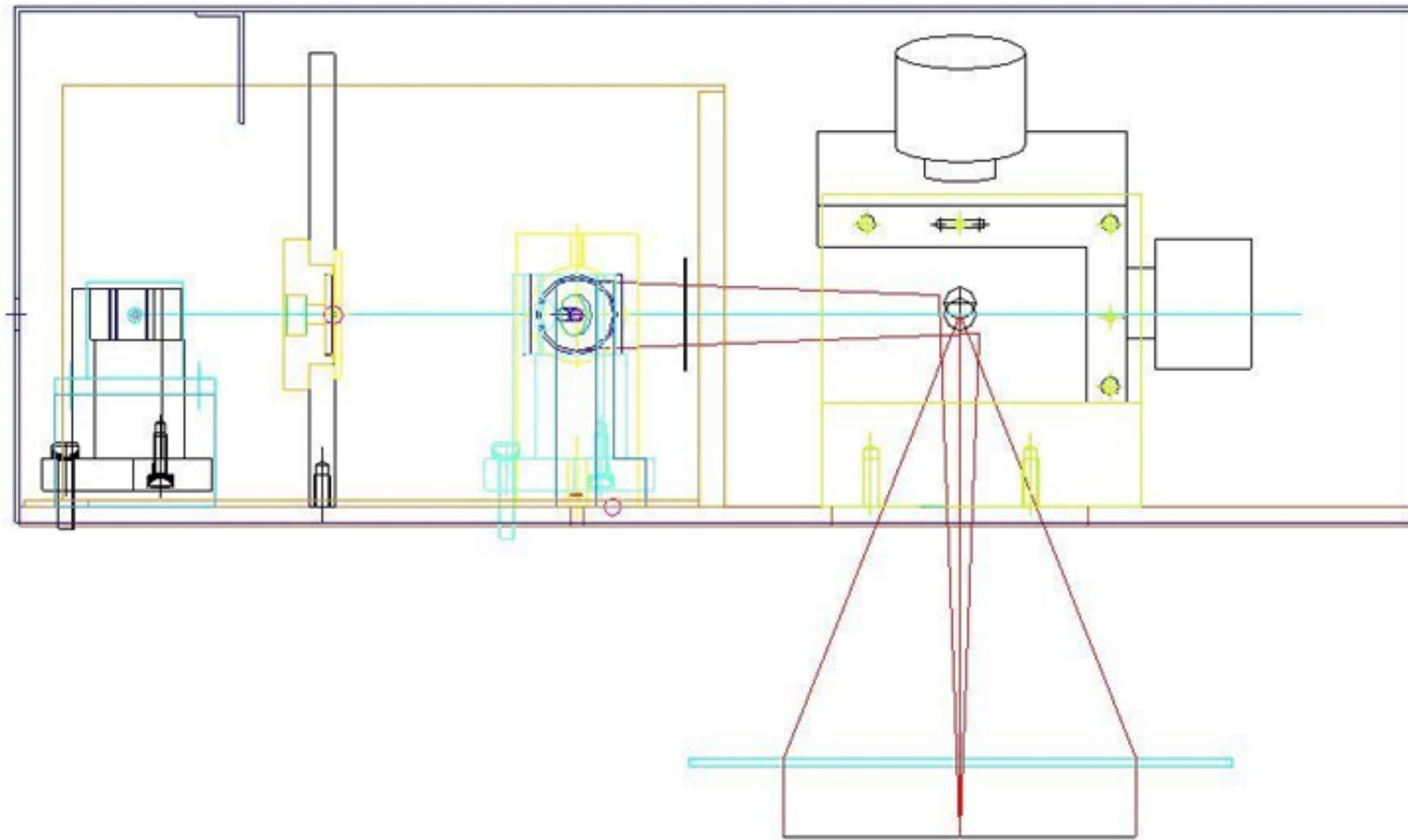
Specific Application.

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



[PrevNext](#)