

SENSING TECHNOLOGIES
OPTOELECTRONICS
PHOTONICS AND OPTICS
DISPLAY TECHNOLOGIES



Design and Production Engineering Services



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Flexible Design & Production Solutions

Pacer International is a leading optoelectronics, photonics, sensing and display solutions provider - one of the largest in the UK. Our specialist team is committed to providing both technical and commercial excellence in our field.

Pacer's Weymouth facility houses our Design & Production Engineering team, offering our customers an outsourcing option for the design and pre-production of modules, assemblies or complete systems. We have the flexibility to take on as much or as little of your project as you need us to. Some customers solely utilise our design expertise; others seek a complete turnkey solution and ask us to manage entire projects from concept stage, through product or system specification, design, prototyping, pre-production and production engineering into full production.

Outsourcing part or all of a project to Pacer reduces your overheads and leaves you free to concentrate on your core competencies.

The benefits to you:

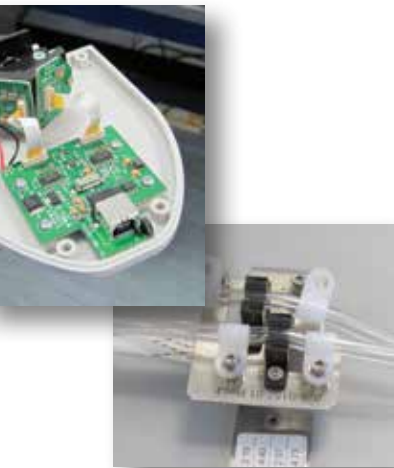
- Access to extensive optoelectronics and sensing technology experience and expertise - we **can** solve your problem
- Small enough to be flexible, react quickly and be cost effective, but with ISO registration and quality management
- In-house electronic, optical and mechanical design capability
- Broad component knowledge and well established relationships with leading suppliers
- Custom display and touchscreen assemblies
- Subassembly and module design and production
- Precision optical assembly - active and passive alignment
- ISO14644-1 class 7 20m² clean room
- Prototyping and production engineering capability
- Low volume pre-production runs
- High volume production via our principal partners
- Technical AND commercial project management
- A seamless project experience - from design concept through to production.

Make use of our additional project management resources to ease pressure on your projects, increase your profitability and reduce your risk.

About Pacer

Pacer has been established for over 23 years, becoming a trusted supplier to OEMs across a wide range of sectors and applications. We have 4 UK sites as well as premises in Ireland and the USA, and we maintain local ownership. Our core competencies are optoelectronics, photonics, sensing and display solutions.

From our origins as a franchised distributor for a comprehensive line-up of component suppliers, we have expanded our design and production capabilities to complement our distribution offering and enable us to provide customers with a more complete solution.



Our Market Sectors



MILITARY AND AEROSPACE
ENERGY EFFICIENCY
INSTRUMENTATION
MOTION SENSING



INDUSTRIAL
SCIENTIFIC
SECURITY
MEDICAL

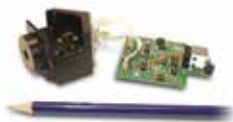


Recent Case Studies

Pacer has been involved in many design and assembly projects in recent years - to a variable degree depending on our customer's requirements. We have helped to save on space and cost by replacing discrete components with custom assemblies, to improve LED consistency with chip-on-board technology and batch selection, to overcome assembly and production problems, and to improve production processes and greatly reduce production costs.



< Pacer manages the subcontract manufacture of this Laser Range Finder Module, used for vehicle profiling and speed detection. The production of this complex module requires high precision calibration and alignment. We have been able to realise significant production cost savings for our end customer.



< Pacer is responsible for all aspects of the design and build of this OEM spectrometer module, involving lens and pcb design, software, 3D modelling, enclosure design and volume manufacture.



< For this build-to-print requirement we integrate fluid sensors into a custom bracket assembly, which we initially characterise, set up and calibrate, supplying an assembly ready for direct placement into the final production line. Our improvements to the production process have saved our customer 30% of the original build costs.



< After helping to develop the optoelectronics in this cold sore treatment unit, we designed the enclosure and product packaging and production-engineered the unit. We now manufacture and supply these products to commercial retail outlets.



Pacer's Weymouth Facility

Capability and Equipment

- ISO14644-1 class 7 20m² clean room
- PCB design & layout
- Box build - complete fully tested products, injection moulding facility, direct shipments
- Hi-rel - device screening, characterisation & burn-in

Innovation and Experience

By working with Pacer, you will benefit from our familiarity with our own extensive product portfolio – and you'll have instant access to our years of experience solving optoelectronic design problems. Thanks to Pacer's line-up of leading optoelectronic manufacturers, we have in-depth knowledge of a wide range of components, and we have put this to the test many times to find creative solutions for our customers.



Local Resource – Global Reach



Pacer has developed a world-wide network of strategic manufacturing partners, so our customers can benefit from the cost savings achievable via global production. We can offer high quality, competitive manufacturing solutions with ISO 9001-2000, QS9000, ISO/TS16949 and ISO 13485 approval. Via our partners we have access to wafer fabrication, chip-on-board fabrication, LED die selection, unique epoxy coating techniques, photo ICs, IC design and manufacture, hybrid assembly and multi-functional assemblies.

We maintain very close working relationships with our world-wide partners, and continuously monitor standards to ensure that we deliver the quality our customers demand. Pacer retains total project management responsibility, so you only need to liaise with us.

Some of our global partners have their own excellent prototyping and test resources which are available to Pacer customers. However, if you prefer, prototyping, verification and test can all take place locally to our UK Design Centre. We can undertake full production engineering prior to manufacture, and can arrange for direct shipments if required.

Contact Pacer

If you would like to discuss your requirements further with us, please contact us on info@pacer.co.uk, via our website enquiry form at www.pacer.co.uk or by calling **0118 984 5280**