

Product Listing



- **Metrology**
- **Microscopy**
- **Spectroscopy**
- **Machine Vision**
- **Test & Instrumentation**
- **Lasers & Fibre Optics**

Lambda Photometrics is a leading supplier of characterisation, measurement and analysis equipment, applied to signals from DC to Light. Our company provides hardware, software and integrated solutions throughout the UK & Ireland.

Lambda's scientists and engineers provide expert technical advice, working with you to improve product discovery, product development and productivity.

We provide instruments, components and turn-key solutions for organisations working in a variety of industries including automotive, aerospace, pharmaceutical, bio-technology, process industries, semiconductor and fundamental research at universities and institutes.

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Metrology

■ ZYGO

Optical Profilers: a wide range of non-contact 3D coherence scanning interferometer systems. Manual to automated. Sub-nm resolution.

Laser (Fizeau) Interferometers: for optics testing and precision engineering. PSI and dynamic systems, >10Mpixel cameras.

Displacement Measuring Interferometers: Absolute positioning (ZPS) and relative positioning (ZMI). Sub nm resolution, high speed, high accuracy, multi-channel (up to 64).

■ CI-SYSTEMS

MIL-Standard E-O & IR test equipment, blackbodies, collimators, boresight and remote sensing spectral radiometer systems. From standard off-the-shelf components to fully customised test systems.

■ ESSENT OPTICS

UV-Vis-IR spectrophotometers for optical coaters. 185nm to 5200nm. Fully automated, variable angle and variable polarization. Measure coatings and complete optical assemblies. Also for lenses and lens assemblies.

■ SAVVY OPTICS

Software assisted scratch/dig evaluation of flat and spherical optical surfaces to MIL-PRF-13830B. Auto scanning up to 400x200mm. Calibrated scratch/dig comparison sets.

■ DIOPTIC

ARGOS automated scratch/dig for high volume components. Automatically scan a part and generate ISO-10110-7 reports. For flats up to 205mm and lenses.

■ M³ MEASUREMENT SOLUTIONS

Refractive index, dispersion & dn/dT measurement services from UV to far IR, and from 77°K to 373°K.

■ METRICON

Prism couplers for measuring thin film refractive index and thickness.

■ PHASICS

High resolution wavefront sensors for laser measurement, lens metrology and microscopy.

■ SEMICONSOFT

Non-contact spectroscopic multilayer thin film measurement systems.

■ OPTO-ALIGNMENT

Ultra precision alignment, assembly and inspection optical systems. Lens centration, EFL, BFL, FFL, etc.

Microscopy

■ SEMPLOR

Compact scanning electron microscope (SEM), high & low vacuum capability and built in x-ray microanalysis.

■ FISCHIONE

Conventional and ion milling sample preparation and tomography holders for electron microscopy.

■ LUXOR

Gold and platinum sputter coaters for SEM sample preparation.

■ SCHOTT

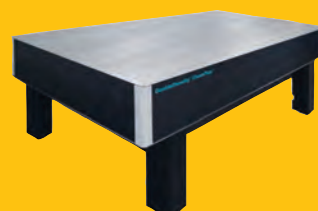
Halogen and LED fibre optic lighting for microscopy applications.

■ TMC

Microscope anti-vibration solutions for tabletop, floor standing SEMs & TEMs.

■ VSP

A benchtop, user-friendly nanoparticle generator with size-selection and nanostructured material printing capabilities.



Test & Instrumentation

■ STANFORD RESEARCH SYSTEMS

Scientific instrumentation including lock-in amplifiers, preamplifiers, delay/pulse generators, FFT/audio analysers, frequency standards, RF & function generators, PID controllers, high voltage power supplies, temperature measurement/control, vacuum & gas analysers, melting point apparatus and more.

■ EVERBEING PROBING SOLUTIONS

DC, RF, mmWave and photonic semi-conductor probe stations, micropositioners and probing accessories, 4-point, hot-chuck, cryogenic stations, microscopes and anti-vibration tables.

■ RIGOL

Test & Measurement: oscilloscopes, RSA & DSA spectrum analysers, DMM's, function generators, RF sources, power supplies and data acquisition.

■ TABOR ELECTRONICS

High performance RF products up to 40GHz including: HV amplifiers, pulse, function and arbitrary waveform generators/transceivers 9GS/s. Ideal for research, quantum, RADAR & NMR.

■ SALEAE

Saleae logic analysers are used to record, measure, and debug signals in electrical circuits. Recording both analogue and digital channels simultaneously, allows quicker and more detailed testing.

■ DINO-LITE

USB microscopes for inspection up to 900x & 5MP resolution. Specialised illumination, coaxial, UV, VIS & IR.

■ GGB INDUSTRIES

Picoprobe® line of DC, RF to mmWave probes for research and the semiconductor industry. Calibration substrates and test accessories.

■ BEEHIVE

Test probes and accessories for EMC/EMI testing.

■ Y.I.C. TECHNOLOGIES

Rapidly diagnose and solve EMC/EMI problems with real-time emissions analysis at your lab bench. Achieve EMC Compliance first time, every time.

■ SENSEPEEK

Low-cost handsfree, logic & oscilloscope probes, PCB holders and accessories, a must for every engineer.

■ HAROGIC TECHNOLOGIES

A low cost range of USB realtime spectrum analysers, up to 40GHz with impressive performance to match your needs & budget.

Lasers & Accessories

■ LASOS

Helium-neon, DPSS and diode lasers.

■ LASEREX

Low cost compact laser diode modules.

■ MENHIR PHOTONICS

Robust low noise femtosecond fibre lasers.

■ NoIR

Laser safety eyewear.

■ XITON

Specialists in deep-UV solid state lasers for FBG writing. Also VIS and IR diode pumped solutions with SLM for holography.

■ IR VIEWERS

Hand-held IR viewers and enhanced CMOS camera for laser beam alignment.

■ HUARIS

Cost-effective laser beam profilers.

■ CONOPTICS

Electro-optic modulators, deflectors, pulse-pickers, laser stabilisers and Faraday optical isolators.

■ INTRACTION

Acousto-optic modulators, deflectors, Q-switches, mode-lockers and driver electronics.

■ PHASICS

High resolution wavefront sensors for laser measurement, lens metrology and microscopy.

■ TMC

Major manufacturer of research grade optical tables, breadboards and vibration isolation solutions.

Fibre Optics

■ LUNA TECHNOLOGIES

Advanced OBR reflectometers and OVA vector analysers for fibre component & network test. General Photonics polarisation measurement and control systems.

■ APEX TECHNOLOGIES

Ultra-high resolution optical spectrum analysers, complex spectrum analysers, tunable lasers and modular test platform systems.

■ SUMIX

Fibre end face inspection microscopes and interferometers. Automated inspection to recognised standards.

■ FIBERPRO

Polarisation instruments and components. Solutions for SOP analysis, PDL, controllers and scramblers.

■ SUMITOMO

LiNbO3 phase and intensity modulators (5 to 100G).

■ TEMPO

Handheld fibre optic test equipment and consumables for R&D, installation, production and harsh environments.

■ DiCON

Fibre optic switches (fibre, MEMS, prism and switch platforms).

Spectroscopy

■ JASCO

Molecular spectroscopy & chromatography solutions: UV/VIS, FTIR, FTIR microscopy, fluorescence, raman, CD & HPLC.

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Machine Vision

Cameras & Sensors

■ BAUMER

CCD and CMOS cameras with GigE Vision, USB3 Vision, Camera Link and FireWire. Matrix cameras in colour and mono with resolution ranging from VGA to 20MP. Highly versatile vision sensors/smart cameras for automation technology.

■ MEGASPEED

Hand held portable high speed camera, troubleshoot problem areas up to 40,000fps.

■ XIMEA

Industrial USB3 cameras with CMOS and CCD sensors and high speed PCI express cameras from VGA to 12MP. Scientific grade cameras including cooled, X-Ray, board level and hyperspectral imaging.

■ SENSORS UNLIMITED

SWIR InGaAs cameras (megapixel, VGA and linescan) for short-wave infra red imaging and process monitoring.

■ SMARTTECH

3-D optical scanners for inspection, engineering and conservation applications.

■ PIXELINK

Industrial, microscopy and OEM/custom cameras. Autofocus USB 3.0 cameras and software.

Lens & Accessories

■ NAVITAR

High magnification zoom and fixed lenses, large format, low magnification video, high speed, telecentric, SWIR hyperspectral & custom lenses, motorised lens solutions.

■ ZEISS

Industrial Nikon F mount, Canon EF mount & Sony E mount lenses.

■ APG

Industrial camera and lighting enclosures and mounts.

■ MIDWEST

Machine vision filters.

■ COMPUTAR

Industrial, security and traffic cameras.

Software

■ NORPIX

High speed digital video recording software and hardware solutions for single or multiple cameras.

Illumination

■ MORITEX

LED illumination.

■ SCHOTT

LED illumination, fibre optic illumination and machine vision lenses.

■ LATLAB

Industrial machine vision LED lighting, custom-designed LED arrays.

■ POLYTEC ILLUMINATION

Industrial high intensity stroboscopes with fibre optic output.

■ SPECTRUM ILLUMINATION

Monster machine vision lighting, large high brightness LED lighting.

■ PLANISTAR

Specialised LED industrial illumination.

System Integration

We have several partners that can provide complete integration — full design, mechanical, electronics and software capabilities.

Service & Calibration

Our Service and Applications Engineers are available to support you to get the most from your equipment or to help you develop a solution for your application. Lambda Photometrics also have a range of flexible services to ensure your products perform to the highest standards including in-house or on-site repair, calibration and service contracts to ISO 9001:2015. Lambda Photometrics has over 40 years experience, meeting the service requirements for research, industrial and military customers alike.



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