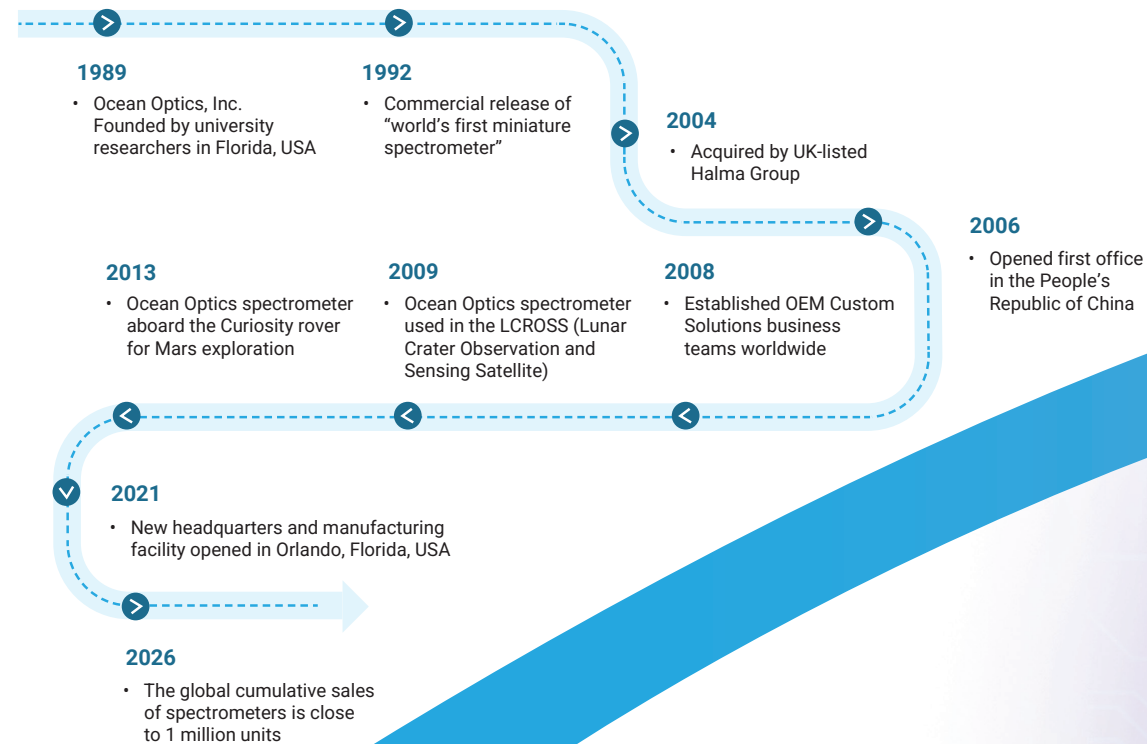


In 2004, Ocean Optics became a member of Halma Group, which accelerated its global business expansion and deepened its focus on regional markets while remaining committed to meeting the diverse needs of customers around the world with faster response and superior service.

Milestones



About Ocean Optics

Manufacturing & Logistics

3500 Quadrangle Blvd.,
Orlando, FL 32817, USA

Sales: info@oceanoptics.com

Orders: orders@oceanoptics.com

Support: support@oceanoptics.com

Phone: +1 727-733-2447

Website: www.oceanoptics.com

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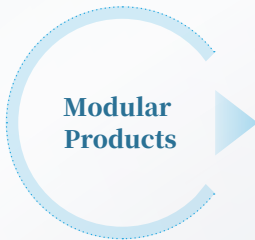
Company Introduction

Ocean Optics was founded in 1989 as the inventor of the miniature spectrometer. As a leading global provider of optical sensing solutions, Ocean Optics is headquartered in the United States. For over 30 years, Ocean Optics has remained at the forefront, leveraging its spectroscopy technology and expertise to help customers address challenges in spectral measurement, working together to build a safer, cleaner, and healthier world. Ocean Optics business includes three main areas: modular products, photonics systems, and customized solutions. The company has world-class manufacturing capabilities and maintains close customer partnerships. Its users include top research institutions worldwide and Fortune Global 500 companies.

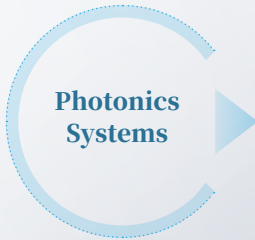
Unlike traditional large-scale spectrophotometers, miniature spectrometers are compact, fast, and easy to use. They utilize technologies such as folded optical paths, fiber optic transmission, and array detectors, making them ideal for applications such as online, in-situ, and portable measurements. We provide spectral measurement solutions ranging from deep-UV to VIS and NIR, applicable for absorbance, reflectance, transmittance, fluorescence, and Raman measurements. From basic scientific research to cutting-edge field diagnostics, Ocean Optics continues to advance smaller and more integrated optical sensing technologies, with products widely used in industries such as scientific research, medical and biotechnology, semiconductors, food, safety testing, and manufacturing.



Main Products and Services



We offer UV-VIS-NIR spectrometers, including miniature spectrometers, as well as matching light sources, fibers, and sampling accessories. With a compact and convenient design, they enable customized configurations suitable for a wide range of applications.



We provide optical systems for research and industrial customers to accurately measure the chemical properties of diverse materials across a wide range of applications, including LIBS metal analyzers and oxygen sensors.



With local technical and engineering teams, we provide multi-level, integrated services. These include services, subsystems, and turnkey solutions. Our modular, configurable products and services help reduce development risks and shorten the time for products to enter the market.



Techniques and Industries

Measurement Techniques

Absorbance

Transmittance

Reflectance

Color Analysis

Fluorescence

Irradiance/Photometry

LED/Laser Characterization

Raman

Optical Emission Spectroscopy (OES)

LIBS

Industries

Biotechnology	Medical Technology	Semiconductor	Food & Agriculture
Energy & Environmental	Research & Science	Manufacturing	Metal Recycling
Consumer Electronics	Laser & Photonics	Industrial Inspection	Safety & Security

We provide not just individual components, but a complete solution from idea to outcome.

Research & Science Business

Over 30 years ago, driven by our devotion to science, we invented the world's first miniature fiber optic spectrometer. Today, it has become a powerful exploration tool in the hands of researchers around the globe.

Modular & Flexible Configuration.
Your Experiment, Your Rules

- **Modular Product System:** Offering modular products including miniature spectrometers, light sources, fibers, and accessories, which can be freely combined according to requirements and enable in-situ and laboratory-based measurements.
- **Multi-Functional Measurement Capability:** Covering the spectral range from deep UV to NIR, support multiple measurement techniques with the same spectrometer by changing accessories.

Our innovative design breaks free from the constraints of traditional laboratory equipment, allowing you to explore research directions and expand application areas to meet your needs.

Wide Range Coverage
Meeting Scientific Research and Industrial Needs

- **Multidisciplinary Applications:** Our products have supported breakthrough research across multiple disciplines and are widely applied in various industries.
- **Rapid Conversion of Research Achievements:** The modular design enables direct conversion of your scientific findings into industrial applications, breaking down equipment barriers between research and industry.

We provide precise and reliable measurement tools to meet diverse needs from laboratories to field sites, accelerating the implementation of your innovative achievements.

Globally Proven & Trustworthy
Reliable and Credible Research Results

- **100,000+ Scientific Papers:** Researchers worldwide have published over 100,000 papers using Ocean spectrometers.
- **Technical Legacy of 600,000 Spectrometers:** With more than 600,000 miniature spectrometers manufactured, a testament to the choice and recognition of countless laboratories.
- **Application Engineer Support:** Our multidisciplinary engineers provide comprehensive support including experiment design, method development, and data troubleshooting.

Choose reliable tools validated by scientists worldwide, backed by multidisciplinary technical support, so you can focus on your research and face challenges with confidence.

We combine flexible spectroscopy solutions with application-focused technical expertise to help you solve complex measurement challenges and accelerate discovery.

OEM Custom Solutions

We tailor our solutions to fit your specific application, integration requirements, and performance goals.

Multi-level and Integration Services

- **Spectrometers & Accessories:** We provide standard spectrometers, light sources and sampling accessories for direct integration into customized systems. Custom versions built to user specifications are also available upon request.
- **Subsystems:** We supply embedded optical and mechanical components, as well as optimized electronic parts.
- **Turnkey Solutions:** Design and manufacture turnkey products based on your own analysis algorithms.

Collaborative Development Support

- **Account Manager Coordination:** From project conception to mass production, a dedicated OEM account manager coordinates global resources and leverages professional expertise to ensure efficient project execution.
- **Multidisciplinary Engineer Team:** Backed by a team of optical, electronic, software, and application engineers, we effectively complement our client's capabilities and tackle key technical challenges.

Reliable Large-Scale Delivery

- **Proven Mass Production Capability:** Leveraging manufacturing experience of over 600,000 spectrometers and long-term service to global OEM and end-user customers, we have established sufficient production capacity to ensure efficient, consistent, and stable volume delivery.
- **Rigorous ISO Quality Control System:** From incoming inspection to finished product shipment, we strictly implement the ISO 9001:2015, ISO 17025, and ISO 13485 standards to ensure excellent consistency and traceability for every device delivered.
- **Flexible Commercial and Delivery Guarantees:** We offer cooperation models including annual agreements, safety stock and on-demand shipment, helping you optimize inventory management and respond calmly to market fluctuations.

Modular and configurable products and services reduce product development risks and shorten your time to market.

Spectrometers

UV

VIS

NIR

High Performance Spectrometers

QE Pro series: 190-1100 nm (model dependent)

NR series: 900-2500 nm (model dependent)

High Resolution Spectrometers

HR series: 180-1100 nm (model dependent)

High Speed Spectrometers

FX series: 200-1025 nm (model dependent)

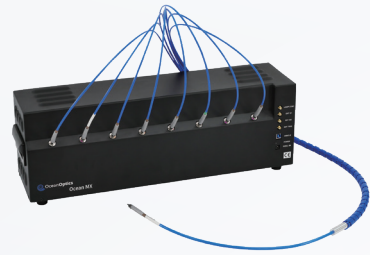
Versatile Spectrometers

SR series: 180-1100 nm (model dependent)

Microspectrometers

ST series: 185-1085 nm (model dependent)

Photonics Systems



Ocean MX

Multi-channel LIBS spectrometer



SpeedSorter

LIBS Metal Analyzer



NeoFox

Oxygen Measurement System

Fibers and Probes

Fibers

Patch Cords

Silica-core fibers for UV-Vis or Vis-NIR. Solarization-resistant options for UV.



Bifurcated Fibers

Bifurcated fibers have two fibers side-by-side in the common end and break out into two legs at the other end.



Customized Fibers

Optical fibers customized according to user requirements, including single-core/multi-core structure, outer jacketing material, wavelength range, length, and core diameter size.



Probes

Reflection Probes

Probes, and light source coupled to a spectrometer, measure reflection, and fluorescence in solids, liquids, powders.



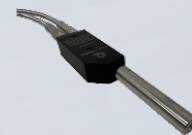
Transmission Dip Probes

Measure absorbance in solutions, suitable for both lab and real-time process measurements.



Raman Probes

Probes for 532 nm, 785 nm, and other wavelengths, are suitable for both lab and industry.



Light Sources

Broadband Light Sources

Deuterium-Tungsten Halogen

DH series, 190-2500 nm



Tungsten Halogen

HL series, 360-2400 nm



Xenon

PX-2, 220-750 nm



Krypton

ecoVIS, 400-2500 nm



Narrow-band Light Sources

LEDs

LSM series, 265-880 nm



Raman Laser

532/638/785/1064 nm



Calibration Light Sources

Radiometric Calibrated

DH-3P and HL-3P series, 210-2400 nm

Each source is calibrated to NIST-traceable standards.



Spectrometer Wavelength Calibration

253-1984 nm

Mercury, Krypton, Neon, Argon & Xenon lamps available.



Other Sampling Accessories

Ocean Optics also offers integrating spheres, collimating lenses, optical holders, standard reference accessories, and others.



For more products and OEM solutions information, please visit our website.

www.oceanoptics.com