



Solutions for medical applications

Ocean Optics is part of HALMA international, a company dedicated to create components and products used to improve personal and public health. As Ocean Optics we market leading technologies and products which generate, measure and condition light and analyse the interaction of light with substances. In the world of medical science, optical sensing has proved to be a very effective and efficient way to analyse patients and substances.

Application range

- » DNA sequencing
- » Cancer & tumour detection
- » Skin measurements
- » In vitro analysis
- » Diagnosis of diseased tissue
- » Blood analysis
- » Oxygen sensing
- » Light therapy control
- » Vein monitoring
- » Optical imaging
- » Molecular sensing

Product features

- » Non destructive
- » Fast answers
- » Accurate results
- » Patient friendly
- » Easy to use
- » Reliable operation
- » Full spectral analysis
- » Custom configurations
- » Handheld designs
- » Easily integrated into other systems

Some of our Products

OEM optical sensing units

Our miniature spectrometers, fibre optics, optical components and sensors are used in a vast array of OEM products. Ocean Optics is known for providing specialized solutions for a broad range of manufacturing applications. The volumes you require, the delivery you need and the quality you demand are all assured under the Ocean Optics OEM program.



UV sensitive spectrometers

The UV sensitive Maya spectrometers have an excellent UV response, a wide dynamic range and a detector quantum efficiency up to 90% , making them ideal for measurements in the UV range down to 155 nm. With an excellent signal-to-noise ratio, Maya is also well suited for low light level and demanding applications, such as fluorescence.

Raman Systems

Ocean Optics offers a full range of modular and turnkey Raman systems combining our most sensitive spectrometers with various lasers and probes. Raman spectroscopy provides information comparable to IR and allows non-invasive and non-destructive testing without the need of contact with the sample.



Optical Sensors

Ocean Optics offers fibre optics oxygen sensors for non-invasive analysis of dissolved and gaseous oxygen pressure. All Ocean Optics oxygen probes and patches include this unique optical sensing technology, which makes it possible to analyse oxygen levels inside (closed) packaging, such as blood bag analysis and cell culture monitoring.



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