

Spectroscopy from Lab to Pocket

Compact, cost-effective and research level performance in your palm – designed by spectroscopy experts, for the everyday user...

The dilemma of traditional spectroscopy systems

Spectroscopy is one of the most powerful and versatile technique for measuring colours and substances, yet it has traditionally been too complex and costly for large scale applications such as IoT or consumer goods. There are three types of spectrometers: Filter, grating and interferometric based devices. While interferometers outperform all other methods in terms of efficiency, spectral range and resolution, they are also fragile and costly.

Growing demand for smart sensing solutions

With key drivers coming from factory automation, automotive driver assistance, food safety regulations, personalised cosmetics, wearables or smart home appliances, the demand for intuitive, mobile and affordable optical sensors across various industries is growing at a tremendous rate.

A revolution in compact spectroscopy

Attonics translates the architecture and scanning optics of high-end interferometers into a single nano-structured chip, thus converting conventional table-top solutions into portable and low-cost spectroscopic devices that fit into your palm or consumer product.

We offer product & OEM sensing solutions (standard or customised) for

- High-resolution colour detection and communication (e.g. CIE, LAB, RGB)
- QC based on colour or substances during manufacturing
- Determination of plant health and food freshness
- Metrics related to personal health in hair care, skin care, and oral care
- Detection of counterfeits in drugs, apparel and F&B
- Measurement of illumination sources and CRI (e.g. LEDs, displays)
- Many more...



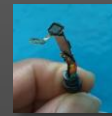
Our Value Proposition:



End-User Product



- Ultra-compact: 3 x 3 x 6 cm
- Wide Bandwidth: 380 - 1,050 nm
- High Resolution: ~ 1 nm (Peak repeatability)
- Cost-Effective: < 1500 €



OEM Module "AttoCore"

- Ultra-compact: ~ 9 x 9 x 1 mm
- Wide Bandwidth: 380 - 1,050 nm
- High Resolution: customisable
- Cost-Effective: 100-1000 €

Our Partners:

We are proud to be working with global players in a wide range of industries such as Apple, Applied Materials, P&G, Nestlé, L'Oréal, Sakata Inx, and many more.



Contact Us:

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The all new **ATTO³**

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Key Features

- Ultra-compact, ergonomic and robust
- Wide Band: 380 to 1,020 nm
- Repeatability customisable to 0.1 nm
- 2 to 20 nm configurable resolution
- 50 measurements per second
- High SNR and Dynamic Range
- Software for Windows, Mac Platforms
- USB Powered, USB 3.0 interface

Technical Specs

| | |
|--|--|
| Wavelength Range | 380 nm – 1,020 nm |
| Peak Repeatability | < 1 nm* |
| Size / Dimensions | 32 x 32 x 66 mm ³ |
| Weight | 75g |
| FWHM | 12 nm (customisable to a higher resolution depending on bandwidth) |
| SNR | > 100:1 |
| Dynamic Range | 12 bit |
| Integration Time | 10 us to 1 s |
| Numerical Aperture | 0.3* |
| Measurement Speed | 50 frames per sec* |
| LED* | White High CRI LED, UV LED |
| Supply Voltage | 5 V, USB based connection |
| Power Consumption | 0.4 W (CMOS) 0.1 to 1 W (LEDs)* |
| Operation Temperature | -30°C to +70°C |
| * based on configuration, customisable | |

We bring spectrometers from laboratories to the wider community disrupting the world of spectroscopy.

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