



TEXTILE SENSING

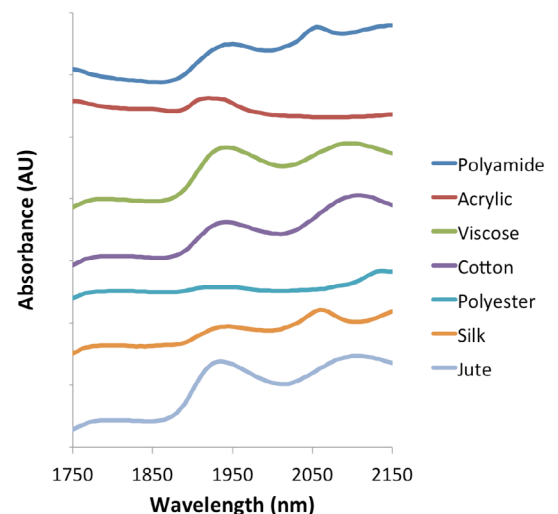
WITH THE MOBILE NIR SPECTRAL DEVICE

Spectral Engines' technology enables the fast and accurate collection of reference data for a wide range of textiles. With the NIRONE handheld device, the material can then be measured anytime, anywhere and compared with the reference data. The process is easy: the sample is briefly placed on the device, the solution recognizes the material mix and displays it in the app. The use of this solution is particularly suitable in the recycling sector and anti-counterfeiting of branded clothing.

The NIRONE scanner includes a miniaturized material sensor equipped with next-generation near-infrared spectroscopy, a mobile app, advanced algorithms and an intelligent cloud platform for rapid data collection and analysis. The platform is scalable to up to thousands of sensors.

The NIRONE Textile Scanner detects e.g. the following fibre types and a broad variety of the most common textile blends:

- Cotton
- Wool
- Viscose
- Elastane
- Polyester
- Polyamide
- Linen
- Nylon
- Modal
- Acryl
- Angora
- Silk



The NIRONE Textile Scanner package includes:

- NIRONE Sensor
- Enclosure
- Bluetooth connection (BLE4.3)
- Battery
- Quick guide
- White reference target with calibration puck
- USB-C Cable
- Cloud-Service via Mobile App

About the NIRONE Textile Scanner

Weight	Battery	Sensor Wavelength	Storage
157g 0.35 lbs	10 hours	S2.0 1.55 – 1.95 μ m	Data stored in a safe cloud environment
Size	Interfaces	Models	Transfer
80 x 80 x 28 mm 3.15 x 3.15 x 1.10 inch	USB & Bluetooth	In-house developed	Data transfer end-to-end encrypted



About Spectral Engines

We are an international IT company specializing in MEMS-based near-infrared spectral measurements - an innovative technology used for the rapid identification of a broad variety of materials, like textiles, plastics, pharmaceuticals, illicit narcotics, etc.

Spectral Engines is part of the Nynomic Group and combines the best of both worlds: the dynamics of a young company with the security of an established technology group in the background. The company is located in Steinbach in the immediate vicinity of Frankfurt a.M..

SPECTRAL ENGINES® GMBH
Weißkirchener Str. 2-6
61449 Steinbach, GERMANY
sales@spectralengines.com

www.spectralengines.com

Watch our video:



 **SPECTRAL ENGINES**
MEMBER OF THE NYNOMIC GROUP