



TEXTILE SENSING

WITH THE WIRELESS AND PORTABLE NIR SPECTRAL DEVICE

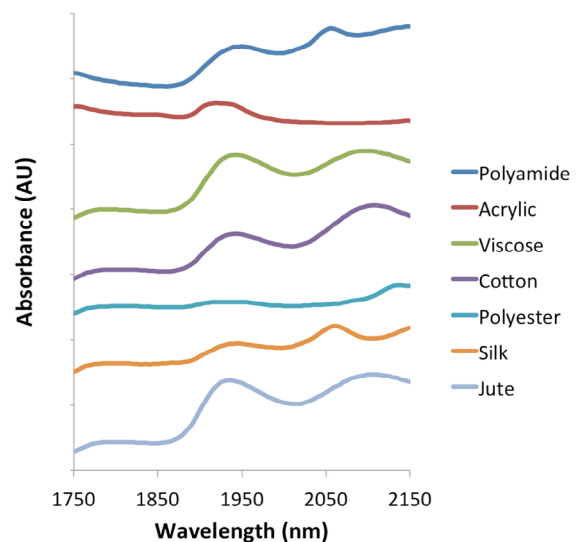
Using Spectral Engines` technology, the composition of different textiles can precisely determined and distinguished on the spot with the simple NIRONE handheld device. It is easy: the material is briefly placed on the device, the sensor detects the type of fabric respectively the mix of materials and shows it in the app.

The heart of the solution is our NIRONE Sensor with added mobility and smart connectivity. The battery-powered device has Bluetooth connectivity enabling communication with portable devices such as mobile phones and tablets.

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

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

*in progress



The NIRONE Textile Scanner package includes:

- NIRONE with D2.0 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 Range	Storage
157g 0.35 lbs	10 hours	1.55 – 1.95 μm	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

Spectral Engines, part of the Nynomic Group, is an international company specializing in the development and manufacture of electronics and sensor systems for spectral measurement. In close cooperation with our customers, we develop and manufacture high-end spectroscopy

systems and components for a wide range of applications. The company is located in Steinbach in the immediate vicinity of Frankfurt a.M. and in Helsinki.

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Watch NIRONE Textile Sorting video:
<https://youtu.be/gd2267ZFc3M>

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