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

<table>
<thead>
<tr>
<th>Weight</th>
<th>Battery</th>
<th>Sensor Range</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>157g</td>
<td>0.35 lbs</td>
<td>10 hours</td>
<td>1.55 – 1.95 μm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>Interfaces</th>
<th>Models</th>
<th>Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 x 80 x 28 mm</td>
<td>USB &amp; Bluetooth</td>
<td>In-house developed</td>
<td>Data transfer end-to-end encrypted</td>
</tr>
<tr>
<td>3.15 x 3.15 x 1.10 inch</td>
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</tbody>
</table>

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.

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