

Identify textile types at the push of a button

Fast, easy and flexible – a powerful solution for textile sorting



Powerful combination of robust hardware, data analysis, and material expertise

✔ **Flexible**

Textiles can now be easily distinguished on the spot with a portable device or a semi-automated table setup.

✔ **Fast**

A broad range of textiles and blends are identified within seconds.

✔ **Easy**

A user-friendly handling with instant on-screen results.

Enhancing quality control and sorting with insights into your material streams

✔ **Conformity check**

Improve your incoming and outgoing quality control process with the reliable on the spot identification of different textile materials and blends.

✔ **Improved recyclability**

Efficiently sort collected waste into clean streams of textiles and process them appropriately to ensure high-quality recycling.

Reliable identification of a variety of textile materials and blends



Blended materials are typically identified if the content of the minor material is > 5 %. The typical accuracy of cotton/polyester blend identification is ± 7 %.

trinamiX Mobile NIR Spectroscopy Solution



trinamiX PAL One
mobile NIR spectrometer

Customer
Portal

Smartphone
App

trinamiX makes the invisible visible

Improving on-the-spot decision-making through NIR spectroscopy

1 Point trinamiX NIR spectrometer to object and press the green button. Near-Infrared light is sent to and reflected by the measured material.

2 Each material has a unique spectrum of wavelengths that is reflected. Chemometric models analyze the spectrum of the reflection and clearly identify the material.



3 Within seconds, a result is displayed in the app, and additional information becomes available for further evaluation in our customer portal.



About trinamiX Mobile NIR Spectroscopy Solution

- ✓ Battery capacity: up to 6,000 measurements
- ✓ Slightly larger than a smartphone
- ✓ Wireless connection to smart device via *Bluetooth*[®] and customer portal via internet
- ✓ Data stored in MS Azure cloud provided by BASF SE
- ✓ Data transfer end-to-end encrypted (SSL and AES 256)
- ✓ Android, iOS, Windows app
- ✓ Customer portal for more insights
- ✓ In-house developed chemometric models



Watch how it works
trinamiX solution for
mobile textile sorting

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