

Matoha

What will you scan next?



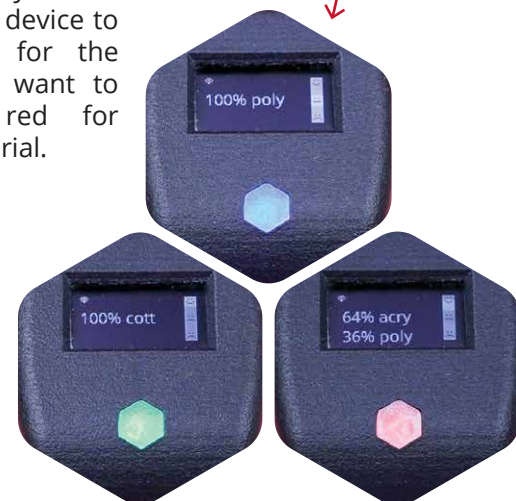
Textile identification
and sorting solutions

FabriTe

Key features

- ✓ Complete solution - no additional accessories, libraries or subscriptions required
- ✋ Super-easy to use
- ⚡ Instant identification of textile composition (0.5 seconds)
- 👕 All major textile materials supported (10 materials and 13 blends)
- ☁️ Cloud-enabled for detailed insights into scanning data, for operations and traceability
- 📱 Free iOS / Android app included
- ↗️ Scalable - buy as many as you need to scale-up your sorting
- 💡 Programmable LED colour

For example, you can configure the device to show green for the material you want to keep and red for rejected material.





Technical Details

Operating Principle NIR reflectance spectroscopy, within a band in the 1-2 μm range. On-board AI algorithms instantly interpret the results

Power supply Micro-USB power adapter or optionally, built-in rechargeable battery (PRO version)

Connectivity Bluetooth LE (app connectivity) and 2.4 GHz Wi-Fi (to receive updates) & open source communication library

Footprint 14x13x10 cm, 0.5 kg

Warranty One year standard warranty

The machine supports 10 pure materials and 13 blends:



cotton



acrylic

- cotton-polyester
- cotton-viscose
- cotton-elastane
- cotton-nylon
- cotton-acrylic



polyester



nylon

- polyester-viscose
- polyester-elastane
- polyester-acrylic
- nylon-wool
- nylon-elastane
- wool-acrylic
- wool-polyester
- viscose-elastane



viscose



wool



acetate



elastane



polypropylene



silk

Example Applications

Textile waste sorting Increase the value of your sorted fabrics by using FabriTell - the 0.5 second identification time means that you can sort a large number of garments quickly and accurately.

The programmable LED (below the screen) allows you to configure a particular colour for a specific composition (e.g. blue for > 90% cotton), so that your sorters can sort quickly.

Waste stream audit Use our app to record any additional information about each sample and then export all the results using the cloud interface, in an Excel-friendly format. This enables you to quickly and efficiently perform field waste stream audits.

Research & education Use our machine to educate the public about the benefits and challenges of textile sorting enabling efficient recycling!

The performance & accuracy depend on a number of factors, such as correct measurement technique - the accuracy is typically $\pm 10\%$ for blends (that is, the material composition is $\pm 10\%$) and 5-10% detection threshold for contamination in pure materials. The numbers represent the typical accuracy for the vast majority of samples, but cannot be guaranteed for every single sample.

It is not possible to separate chemically identical fibres, such as wool vs alpaca but the machine can separate e.g. cotton vs wool.

Speak to us for further details!

FabriTe^{##} devices

We have a fabrics scanner for any use case for maximum integration and productivity



FabriTell Desktop

The Desktop version is an all-round device for a range of use cases. It can be powered by an optional built-in battery and can accurately identify a wide range of fabrics and blends.

FabriTell Bench

Do you need to sort a lot of waste? FabriTell Bench has you covered with its robust footprint, built into a bench or a desk. We can even supply the furniture!



FabriTell Handheld

Our FabriTell Handheld is a simple solution for quick measurements around your site. The device comes with a built-in battery and a removable handle to allow easy access.



Sensing module

Thinking of building an automated system or a reverse vending machine? We've got you covered with our Sensing module.



Get in touch now!

hello@matoha.com
<https://matoha.com>

