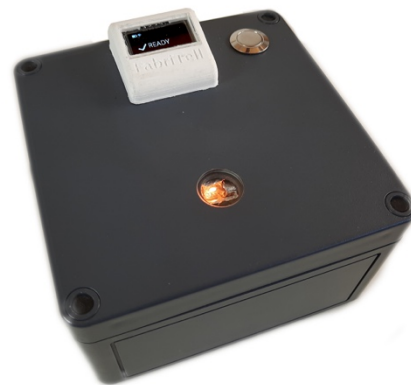# FabriTell

Fabrics sorting made simple

Post-consumer textiles can come in all sorts of colours, textures and materials. If you want to recycle textiles efficiently and cheaply, how do you identify and sort them without having to read labels or resort to expensive lab testing?

FabriTell is your small and speedy sorting tool.

With FabriTell, you can make use of laboratory standard infrared analysis techniques and cutting-edge machine learning algorithms, all in a desktop package that doesn't need a PhD in chemistry to be operated.

In seconds, your FabriTell equipped workers will reliably and quickly identify common natural, man-made and blended fibres across a wide range of common textures, knits and colours, including black and dark-coloured fabrics.

FabriTell is designed to be simple, rugged, and easy to use. You can power it via mains or with the internal battery. Our patented sensor system means that the sample only has to be placed on the sensor briefly to be measured. For additional analytics and data collection, you can also operate FabriTell devices with an accompanying mobile app.

We can customise our platform to help deliver your fabrics analysis needs. Contact us now to see how we can work together!

- Non-destructive
- Takes seconds
- Identifies blends

Preliminary technical specification

Measurement principle Near-infrared reflectance spectroscopy, operating in a band in the 1-2 µm region. Infrared lamp built-in, expected life >40 000 hours. Infrared fingerprints are identified with our proprietary algorithms.

Fabrics supported common fabrics like cotton, polyester, polyamide, wool and silk and more.

Blends supported blends of the fabrics above, limit of detection 10% and typical accuracy ±10%

Accuracy Expected >90-95%, to be determined in field trials

Measurement time between 0.5 and 2 seconds, depending on the signal quality

Power Optional built-in battery for a 6-hour run-time. Charged and powered using a supplied USB-C charger. Typical power consumption 5 W.
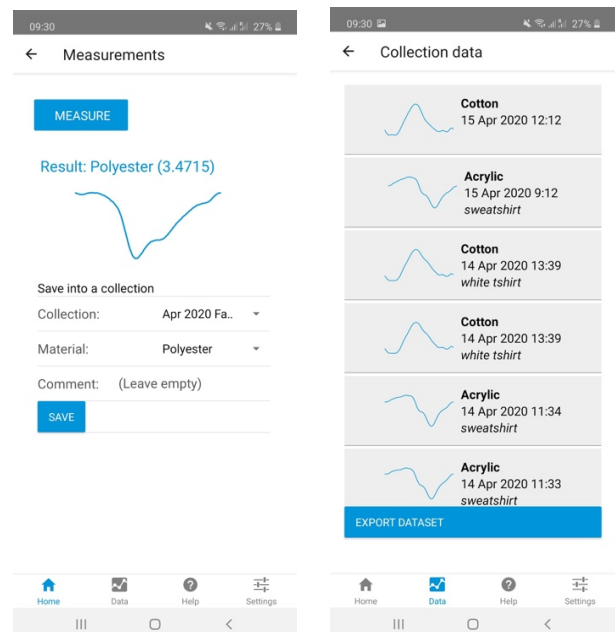
Footprint 13x13x9 cm, 0.5 kg

Connectivity Wi-Fi (2.4 GHz), to receive updates and send data; Bluetooth LE to connect to a smartphone

Warranty One year as standard

Mobile app

Our free app for iOS and Android can be used to configure the instrument, and to save and analyse data.

To pre-order your FabriTell, get in touch now at hello@matoha.com!

Matoha

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