PlasTell

Plastics identification made simple

Plastic manufacturing and waste streams contain numerous types of visually identical but chemically different polymers, meaning that they are nearly impossible to differentiate with the naked eye alone. How can you identify them quickly and easily?

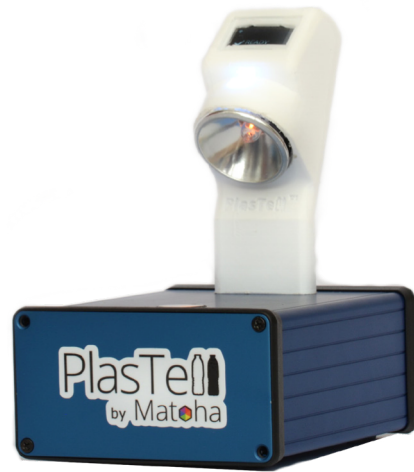### PlasTell is your complete plastics identification solution.

■ Rapid
A scan takes less than 2 seconds

■ Cloud-enabled
Gain extra insight into your data with the help of our app

■ Versatile
Identify major plastic types and add new samples into the machine to create own libraries
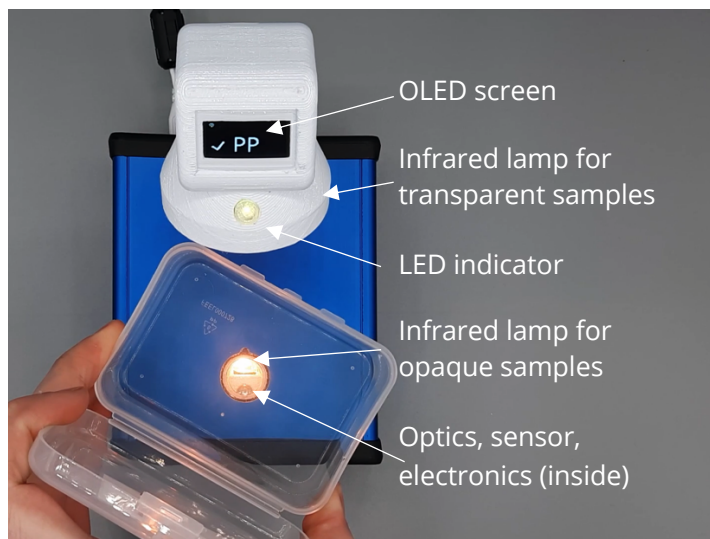

With PlasTell, you can make use of industrial standard infrared analysis techniques and cutting-edge machine learning algorithms, all in a tiny machine that is easy to operate and no scientific qualifications are required.

In seconds, your PlasTell equipped workers will easily and reliably differentiate between common types of plastic. You can control your PlasTell from either the simple physical interface or with a dedicated mobile app, which also allows you to access advanced analytics and data tools to help better understand the plastic you process.

PlasTell is designed to be simple, rugged and easy to use. You can power it via mains electricity, or, for added portability, using an optional external power bank. Our patent pending sensor system means that the sample only has to be placed on the sensor briefly to be measured.

Matoha

https://matoha.com
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Technical specifications

The instrument uses combined near-infrared transmittance (for translucent samples) and reflectance (for opaque samples) spectroscopy, operating in a band in the 1-2 µm wavelength region.

- OLED screen. Provides clear readout of the measurement result.
- Two infrared lamps for optimal performance for both transparent and opaque samples.
- LED indicator which changes its colour based on the plastic type – enabling quick sorting.

Plastics supported

Most common plastics (PET, PVC, PE, PP, PS, PLA, ABS, PC, PA). Specialist plastics or polymers can be added upon request. Please note that PlasTell is unable to identify black/dark plastics and very thin films (<20 µm).

The accuracy depends on the cleanliness of the samples and correct measurement technique – in our tests > 95% is achievable.

Measurement time

Typical measurement takes between 1 and 2 seconds depending on signal quality.

Power

Typical power consumption 5W. A mains adapter and EU, US, AU and UK connectors are included. Optionally, can be powered from an external battery pack.
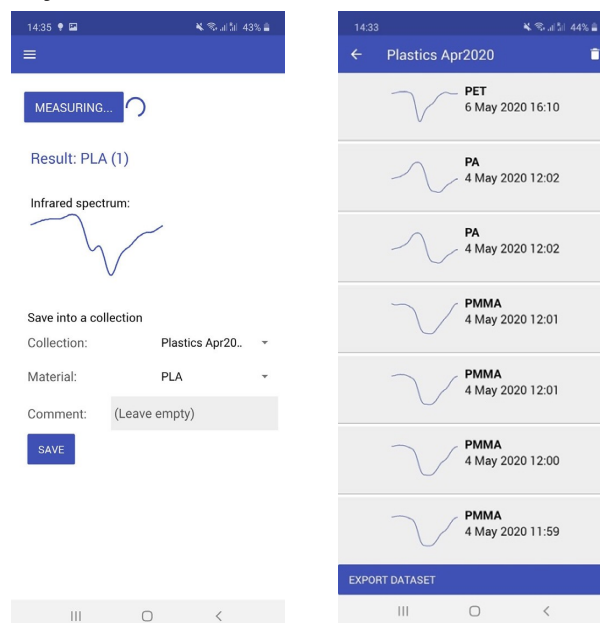
Footprint

10×13×17 cm, 0.5kg.

Connectivity

Wi-Fi (2.4 GHz) for cloud connectivity and device updates, Bluetooth LE for smartphone connection and app control.

Warranty

One year as standard and 21-day money-back guarantee (conditions apply, for details please see https://matoha.com/terms).

Mobile application

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

To order your PlasTell, get in touch now at hello@matoha.com!

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