Handheld Plastic Ban Rapid Tester GY5800

Features

- **Handheld:** The instrument is compact, with a built-in lithium battery life of 4-6 hours, and is ultra-light (1.2 kg) and easy to hold;
- **Strong detection capability:** It can qualitatively measure 10% non-degradable plastics;
- **Fast detection speed:** It can perform a single test on conventional plastics in about 30 seconds;
- **Wide application range:** It can qualitatively identify a variety of plastic components such as PP, PBS, and PE;
- **Powerful functions:** A plastic library for banned plastics can be established, and the software can directly identify it. It supports users to build their own spectrum library, and the test results can be generated and exported as reports.

Description

GY5800 is Optosky's latest instrument for plastic testing, which can quickly test a variety of plastics such as PP, PBS, PE, etc. The instrument is compact and easy to carry and handheld. Its principle is to qualitatively identify plastics. Through optimization processing such as algorithms, it can identify the type and doping of plastics.

GY5800 uses Optosky's many years of technology accumulation. It develops and produces a plastic ban rapid tester for plastic testing sites. The instrument is equipped with a 5.5-inch high-definition screen and built-in WIFI, Bluetooth, GPS and other modules. It is simple and intelligent.

GY5800 can be widely used in safe, fast and non-destructive testing of plastics in public, food and other fields. All measurements are effortlessly at your fingertips!

Application

- Plastic product testing and evaluation.
- Plastic product quality control.
- Plastic waste recycling and reuse.
- Enforcement and supervision of plastic laws and regulations.

Product data information is current as of publication data. Products conform to specifications per the terms of Optosky Standard warranty.

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1. Principle

Different types of plastics have different Raman characteristic peaks. GY5800 has built-in excellent Raman spectrum recognition algorithm, which can detect plastic materials indiscriminately and easily identify materials. The instrument uses Android system and has a simple and clear interface.

2. Parameter

GY5800 System Parameters	
Features	Super strong fluorescence suppression effect
Plastic type identification	PP、PBS、PE、PPC、EVA
Operating system	Android
Measurement light source	Mid- and far-infrared
Light source power	0-600 mW (software adjustable)
Wave number range	200-2500 cm^{-1}
Resolution	8-15 cm^{-1}
Touch screen	5.5 inches, 1920× 1080, multi-touch
Detector	Cooling sensor
Dimensions	220× 110×45mm
Weight	<1.2 Kg
Communication interface	WIFI,USB Type-C,Bluetooth,GSM
Report output	Support export of multi-information test reports (test results, spectrum information, photo evidence) in txt, pdf, etc.
Working time	>6 hours
Charging method	USB Type-C
Operating temperature	-20 – 50 ℃

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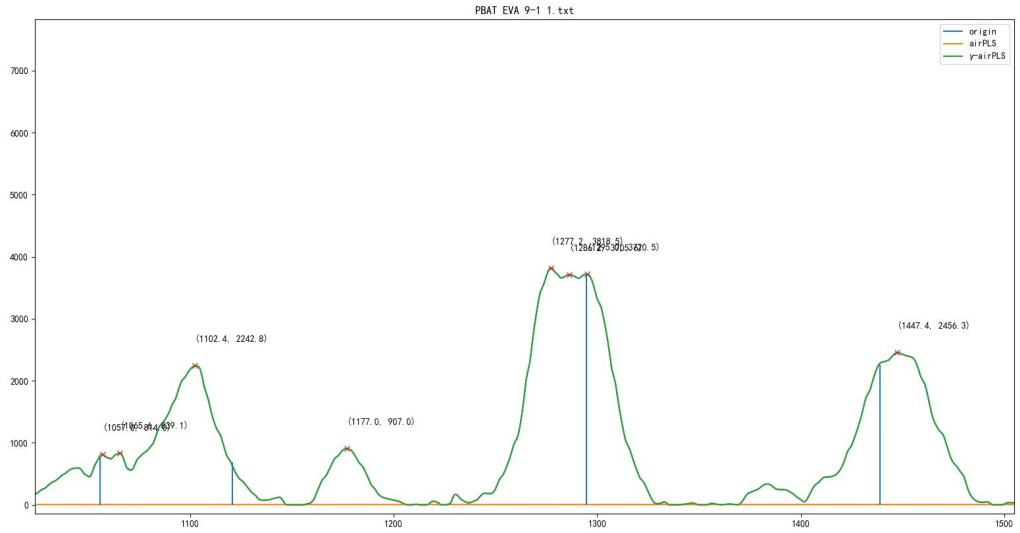
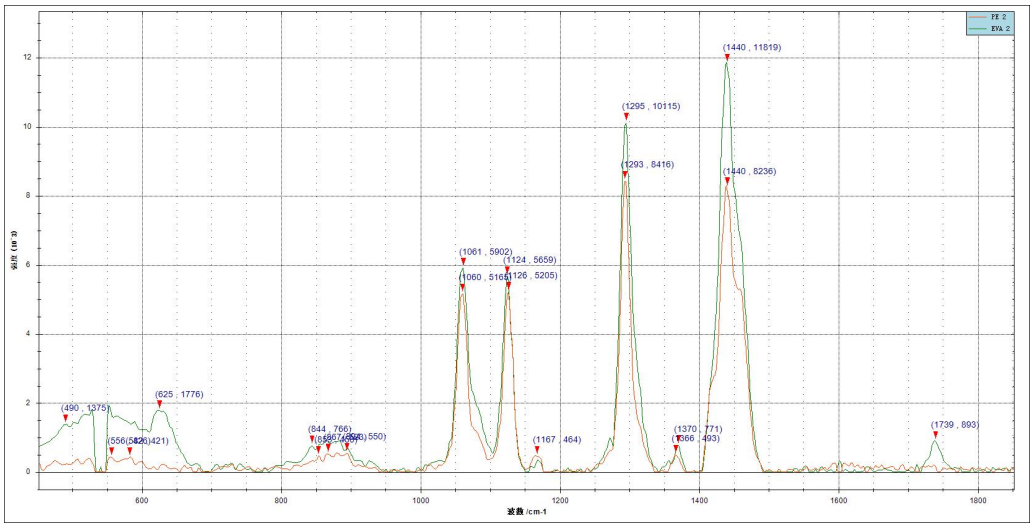
3. Measurement spectrum





4. Product picture

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