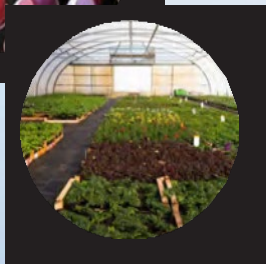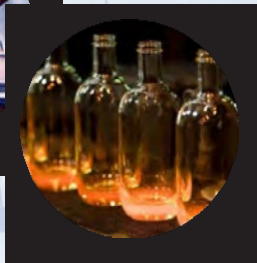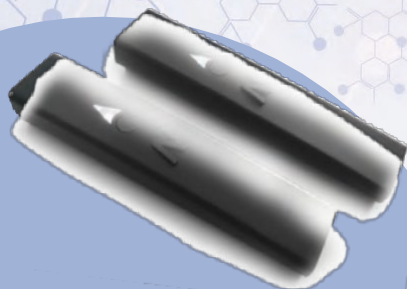# Breeze-L™: A Palm Size SWIR Spectrometer Goes To 2500nm

BaySpec introduces **Breeze-L™** the world's smartest palm spectrometer for 1350-2500nm with a simple one button operation. Featuring proprietary miniaturized optics and electronics, Breeze-L™ is highly efficient for maximum sensitivity with ultrafast acquisition. For the first time, a smart spectrometer delivers close to laboratory performance in a palm-held form.

This smart device allows communication to any smartphone via a Bluetooth interface. The phone app allows users to setup their own databases for sample analysis. This palm-held device can perform spectroscopic analysis at anytime and anywhere for plastics, illicit drugs, pharmaceuticals, explosives, biological warfare agents, medicine, and food.

With the corresponding molecular signatures detected by the miniaturized device, data can be wirelessly transferred to a smartphone via Bluetooth interface. The software can be downloaded to both Android and IOS smartphones for full control of the wearable device.

Key Specifications

Model	Breeze-Long
Wavelength Ranges	1350 – 2500nm
Spectral Resolutions	16nm
Physical Dimensions	180mm x 35mm x 20mm
Weight	135g
Light Source	Broad band light source integrated
Integration Time	Automatically adjusted, support sample averaging
Power	Rechargeable Li ion battery, $\geq$ 2 continuous working hours per charge
Operating Software	LightSpec App for smartphone (Android now, IOS later) app for PC (Windows 7/10) optional
Connectivity	Through Bluetooth with smartphone, or USB 2.0 to PC
Measurement Modes	Easy-access hardware buttons ergonomically arranged on device or through software interface

Applications

Food Safety

Drug Detection

Explosives

Skin Care

Counterfeit

Military

Chemical Warfare

Security

About BaySpec

BaySpec, Inc., founded in 1999 with 100% manufacturing in USA, is a Silicon Valley-based spectral sensing company. BaySpec designs, manufactures, and markets advanced spectral instruments, including smart handheld spectrometers, a new class of OCI™ hyperspectral imagers, novel transportable mass spectrometers, high performance UV-VIS-NIR-SWIR spectrometers, and OEM spectral engines and components, for precision agriculture, R&D, biomedical, pharmaceuticals, chemicals, food, semiconductors, health monitoring, and the optical telecommunications industry.