

Breeze™ – the Smartest Palm Spectrometer

BaySpec introduces Breeze™, the world's smartest palm spectrometer for 400-2500nm with a simple one button operation. Featuring proprietary miniaturized optics, Breeze™ is highly efficient for maximum sensitivity with ultrafast acquisition. For the first time, a smart device delivers laboratory performance in a handheld form.

This smart device allows for wireless communication to any smartphone via a Bluetooth interface. The phone app allows users to setup their own databases for sample analysis. With available data library, this palm device can perform quantitative and qualitative analysis at anytime and anywhere for plastics, illicit drugs, pharmaceuticals, explosives, biological warfare agents, medicine, food, and other materials.



With the corresponding molecular signatures are 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	BRZ-SWIR	BRZ-VIS-NIR	BRZ-VIS-NIR-SWIR	Breeze-Long
Wavelength Ranges	900 –1700nm	400 –1000nm	400 –1700nm	1350 – 2500nm
Spectral Resolutions	~10 –12 nm	~6 – 8nm	~7 –12nm	16nm
Physical Dimensions	93mm x 52mm x 29mm	118mm x 67mm x 34mm	118mm x 67mm x 34mm	180mm x 35mm x 20mm
Weight	135g	165g	190g	135g
Light Source	Broad band light source integrated			
Integration Time	Automatically adjusted, support sample averaging			
Power	Rechargeable Li ion battery, ≥ 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



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.



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