

Checking and Analyzing Food and Beverage Using Palm-Held Ultra-Miniature Spectrometers in the Short-Wave Infrared Range (SWIR)

William Yang

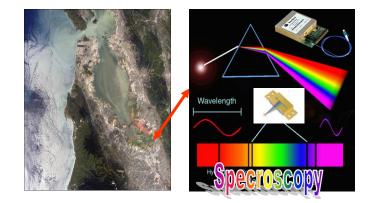
BaySpec, Inc.

Online Event)

Who is BaySpec, Inc



- BaySpec Inc, a Company specializes in Spectrometry in S.F. Bay Area
- Started by Laser Spectroscopists
- 100% of its operations in San Jose, California, U.S.A



 20 Years of inventing, producing and applying analytical as well as sensing technologies based on Photonics

We had invented a novel shortwave IR (SWIR) spectrometer(1999), as one of the key photonics devices for enabling Multi-wavelength (>200 today) of data transmissions, by spectrally monitoring the performance(wavelength, power, S/N ratio) of all the wavelengths in the optical networks in real-time

Without this device there would not be today's internet!

Photonics based Devices for Spectroscopic and Spectral Sensing/Analysis





The Breeze: Ultra Miniature, Palm-Held VIS+NIR+SWIR Spectral Analyzers









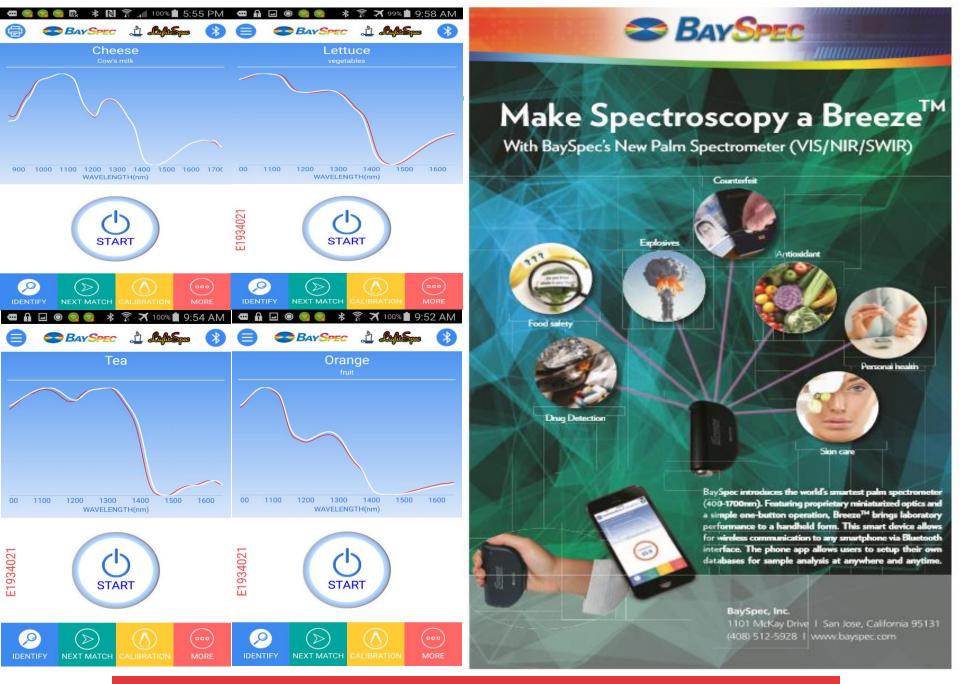








- No moving parts, spectral engine hermetically sealed
- Designed for volume production
- Transmission Volume Phase Grating Based Nanosized Spectrograph; F# 2 Optics; Wavelength covers to 2500 nm
- Bluetooth + Smart Phone APP. Data acquisition
- Easy to use



The Breeze:

Palm-held Ultra Miniature Spectral Analyzers



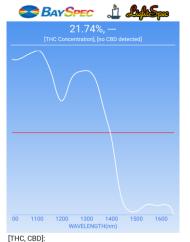








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Timestamp: 2020-03-09 09:31:25 Sample Provider:

Contact Info: Detection site:

Street: City:

State: ZIP/Postal Code:



Applications-Food and Beverage



- Sugar, alcohol, salt, protein, fat
- Degrees of fermentation
- Water, tea, wine, viscosity
- Minerals, antioxidant
- Purity, nutrition, pollutants, pesticides, poisons
- Anti-fraud/adulteration
- P.O.S, Online, In-situ



















