

frinGOe

Spectrometer on the GO!

Breakthrough Design

- Conventional grating based spectrometers have reached the limits of miniaturization due to the requirement of a minimum dispersion length.
- FrinGOe overcomes this technological limit by innovative optical methods based on established FTIR spectroscopy.

Micro-size

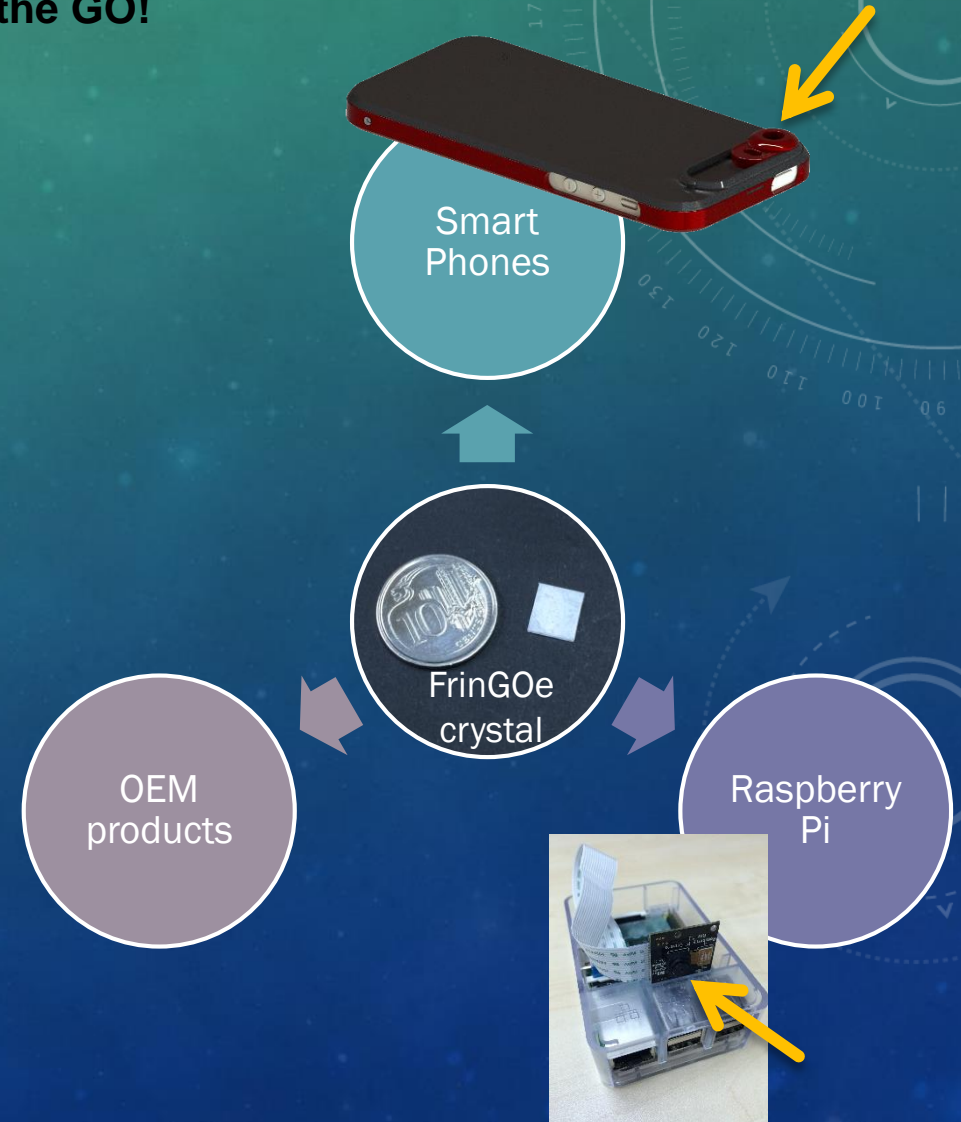
- Probably the world's smallest scientific-grade portable spectrometer.

Versatile

- A passive add-on device that turns a camera into a spectrometer, and can be retrofitted on many platforms.

Affordable

- Patent pending design based on well-known Mach-Zehnder interferometer concept allows cost to be significantly reduced and technology made accessible to the masses.



Prototypes

- Raspberry Pi prototype ~10nm resolution
- Spectral range of up to NIR 1000nm
- Attractive price for hobbyist at as low as <US\$50

- iPhone version prototype <5nm resolution with very low noise
- Scientific-grade spectral quality at an affordable price of <US\$150

Initial prototype

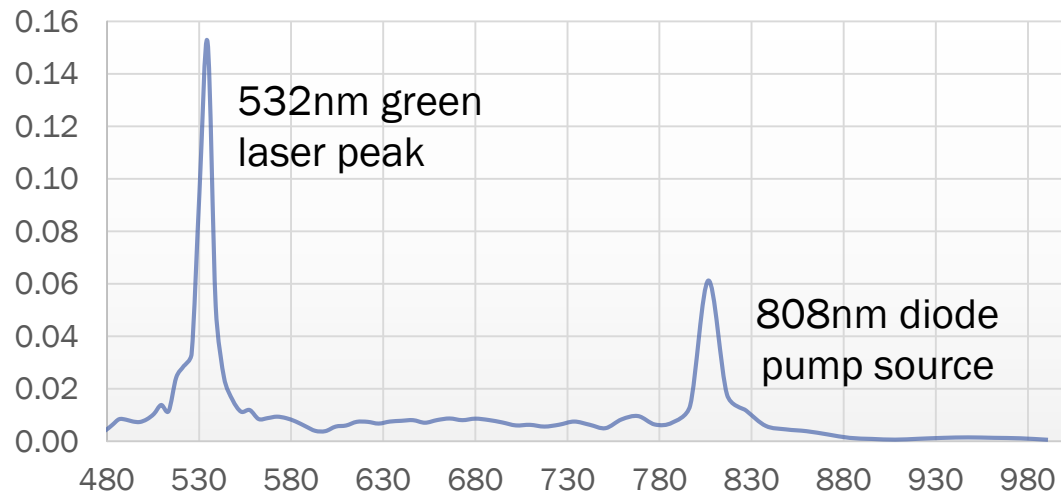


Gen 2 working prototype (iPhone 5S)



Gen 3 design prototype (iPhone 5S)

Frequency-doubled Green Laser Pointer



Modern Fluorescent Lamp Spectrum

