

Laser Based Diamond NV Magnetometer

New Product Available 2023!

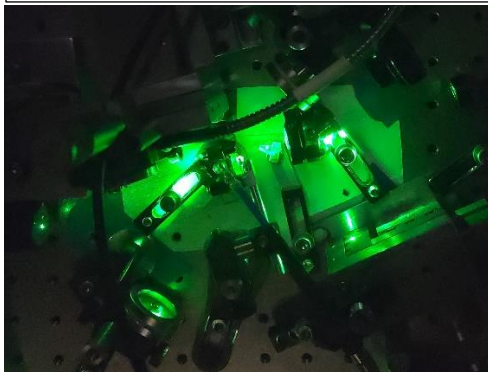
Vector Magnetometer

Low power consumption <15W wall plug

Compact ~ 4" x 3.5" x 2" (L x W x H)

Sensitivity target of $\frac{1nT}{\sqrt{Hz}}$

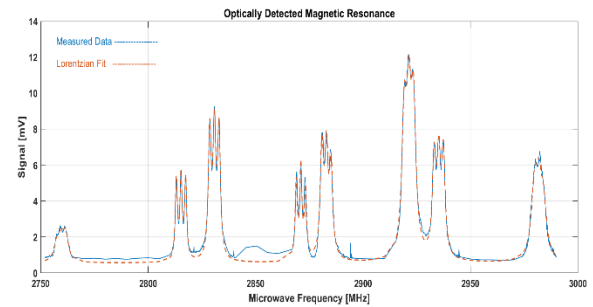
Benchtop Testing



NV Diamond PL



ODMR Scans

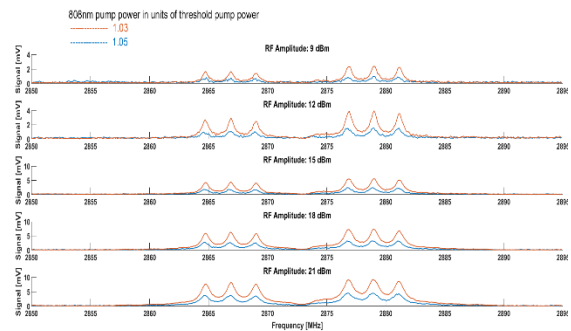


Measured data matching a Lorentzian fit indicating low system noise

8 peaks for the splitting of the 4 crystal orientations.

Hyperfine features shown on each peak

Laser Threshold Dependence



Closer to laser threshold, contrast is improved

Lowers system power draw