

## Supplementary Information

### Label-Free Biodetection using a Smartphone

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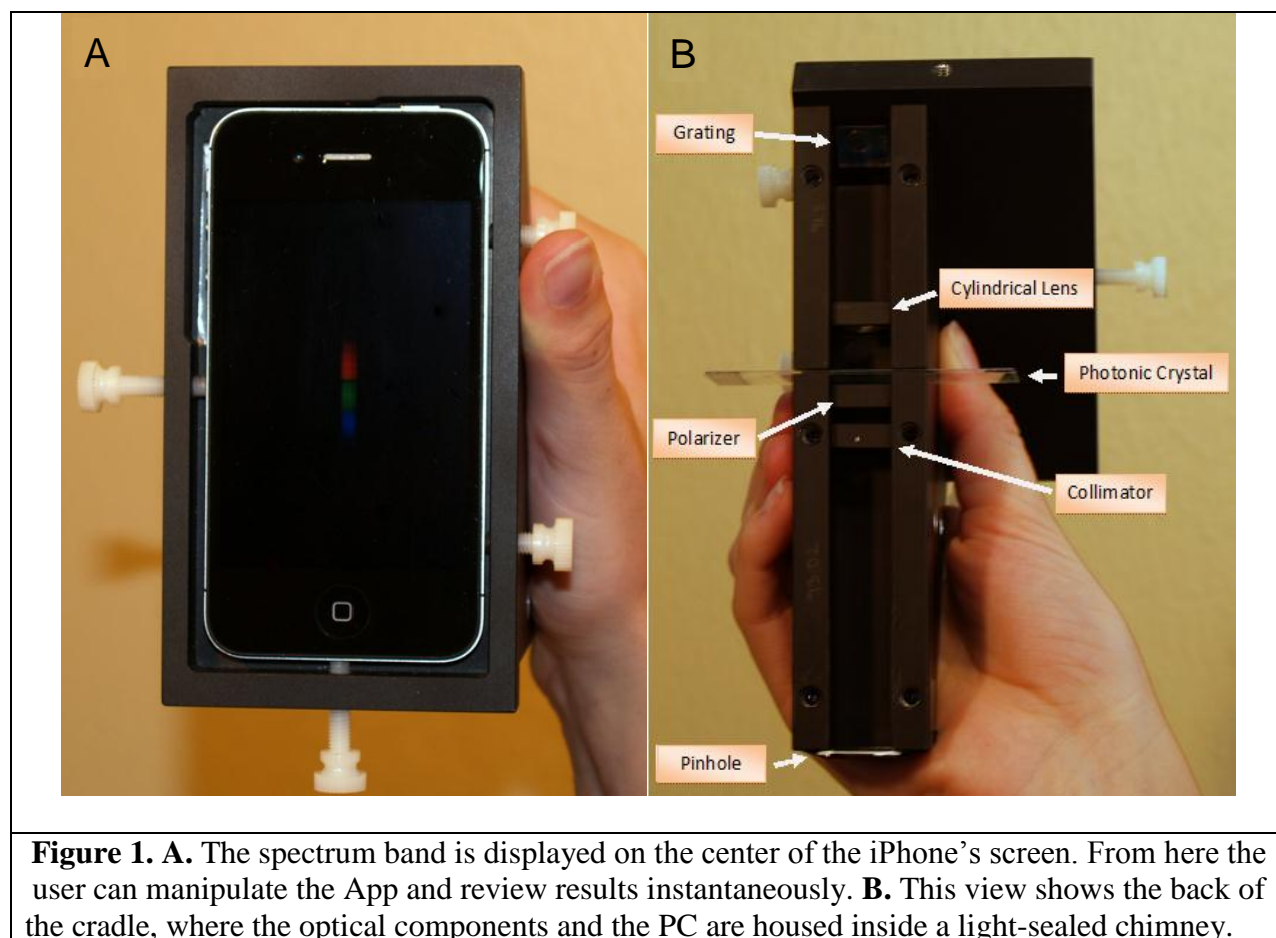
<sup>2</sup>Department of Bioengineering

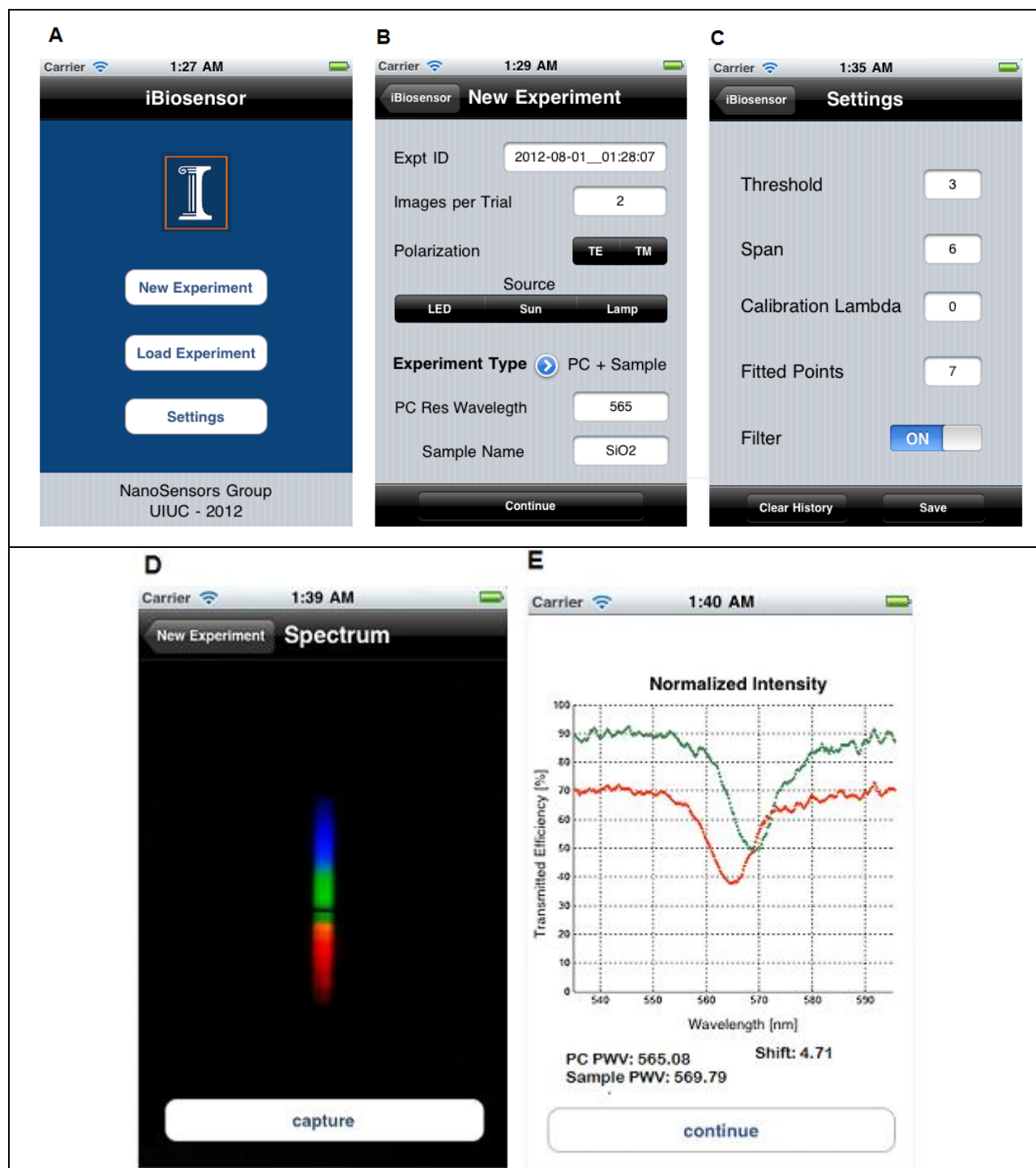
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**Figure 2.** **A.** Home screen view of the custom App. **B.** Screen view from which the App collects information about the experiment. **C.** The user can also change general parameters within the settings view. **D.** The spectrum band as seen by the App. **E.** The App plots intensity profile of both, the reference PC (Red) and a sample (Green) and outputs the resulting PWV shift between the two as shown.

**Table 1: List of optical components and their cost**

<b>Component/ part list</b>	<b>Cost (USD)</b>
1. 100 micron pinhole NT36-392	\$39.00
2. 75 mm FL pl-cx lens NT63-491	\$27.50
3. Linear plastic polarizer NT85-354	\$25.00
4. 50mm FL Cylindrical lens NT48-354	\$47.00
5. 1200 grooves transmission grating GT13-12	\$71.40
Item #1-4 were purchased from Edmund Optics, while #5 from Thorlabs Inc.	