

The Open ND™ Raman sensors are developed based on a unique manufacturing method. We have developed this method to demonstrate controllability and repeatability of the synthesis processes that yield unique nanostructures. For our latest sensor, the material is based on traditionally inactive TiO₂ which was tested successfully with the detection of bisphenol-A (BPA) and diclofenac sodium salt (DCFNa). Tell us about your application and we will show you how we can help.

Dimensions top surface: from .5x.5in (1.3x1.3cm) to 1x1in (2.5x2.5cm)

thickness: from 1/32 to 1/8in (0.79 to 3.2mm)

sensor pad: as small as 1x1mm, any geometry

Base Material commercial Ti (98.9%)

Sensor Material TiO₂, tunable anatase and rutile phase mixtures

Architecture 3D nanofibres with microvia array

Applications label-free environmental pollutant detection

photonic biosensor

Features custom sensor pads, 1 (base) to 8 or more

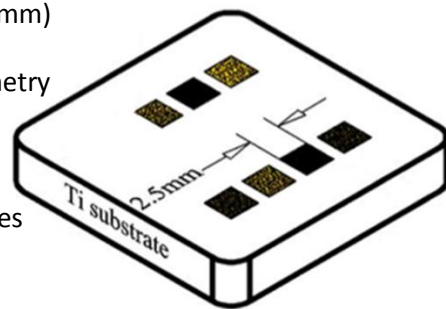
Sample Capacity 0.1 to 5 mL

Base Price \$35.00 CAD per sensor chip

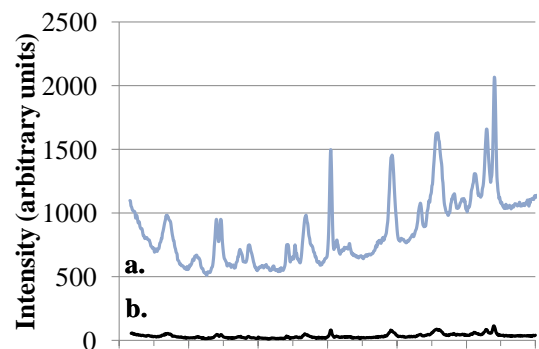
Optional chip holder

pipettes and vials

The figure demonstrates a typical comparison between using the Open ND™ sensor and trying to detect the same analyte on a plain SERS inactive surface. The spectrum was collected with an excitation wavelength of 514 nm, and still shows appreciable fluorescence suppression in comparison to longer wavelengths. Using a shorter wavelength means better intensity and a higher spectral resolution. Try and see.



The sensor chip size and sensor pad areas are customizable based on your detection and equipment requirements.



a. up to 10⁶ Raman enhancement of the crystal violet (CV) dye
 b. CV dye spectra on a commercial Ti surface

---CONTACT INFO---

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