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**HEADLINE:** Bodkin Design Helps to Launch New Product for Start-up Zoíray Technologies, Inc

**NEWTON, MASSACHUSETTS**

[Bodkin Design & Engineering](#), LLC (BD&E) working with Boston University and Zoíray Technologies, Inc (Zoíray) has succeeded in converting their basic research into a commercial instrument. The [Spectral Reflectance Imaging Biosensor \(SRIB\)](#) is a multiplexed immunoassay platform for life science research and clinical diagnostics. Immunoassays that identify the presence of specific protein biomarkers in blood, urine, or saliva constitute a vital tool in modern healthcare. Zoíray's technology enables many immunoassays to be multiplexed on to one small disposable chip.

According to Dr. David A. Bergstein PhD, Founder and CEO of [Zoíray](#), "Bodkin Design developed several approaches that balanced manufacturing costs, ease-of-use, and measurement sensitivity to arrive at the best solution for moving the protein array sensor to market."

The final design incorporates a class IIIb tunable laser, high resolution camera, fluidics, and digital control. The system automatically carries out specimen delivery, reagent introduction, optical interrogation, specimen disposal and data analysis; all in a compact table top unit. During operation, a biochip containing active proteins is loaded into the device. The user then prompts the system to deliver the specimen and reagents to the reaction flow cell, where incubation takes place. The sample is optically probed with the laser and evaluated. Thousands of interactions are captured simultaneously and analyzed using the built in camera and computer.

Key applications of the SRIB include biomedical research, disease pathogen identification and homeland security. For more information, visit [www.zoiray.com](http://www.zoiray.com).

**About Bodkin Design & Engineering**

Bodkin Design and Engineering, LLC has been providing turn-key concept development, prototype design/build and engineering services since 1992. Specializing in electro-optics, visible/infrared imaging and spectroscopy, BD&E serves the OEM, commercial, military, and research communities.

Find out how Bodkin Design & Engineering can convert *your* experiment or idea into a commercial product. Visit our website at [www.bodkindesign.com](http://www.bodkindesign.com).

Keywords: Zoíray Technologies, spectral reflectance imaging biosensor, SRIB, biochip, biomedical imaging device, optical systems, chemical defense, disease pathogen identification, protein array sensor, hyperspectral imaging, electro-optic systems, engineering services, infrared imaging, spectroscopy, BD&E, Bodkin Design and Engineering.



[Spectral Reflectance Imaging Biosensor](#) Designed for Zoiray by BD&E