

# RESONON

## BIO-LIF SYSTEM

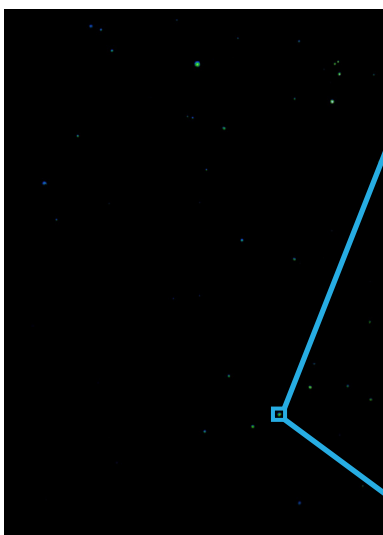
The Bio-LIF system combines Laser-Induced Fluorescence and Hyperspectral Imaging to yield unparalleled spectral resolution of emission data and insight into biological samples.

### FEATURES

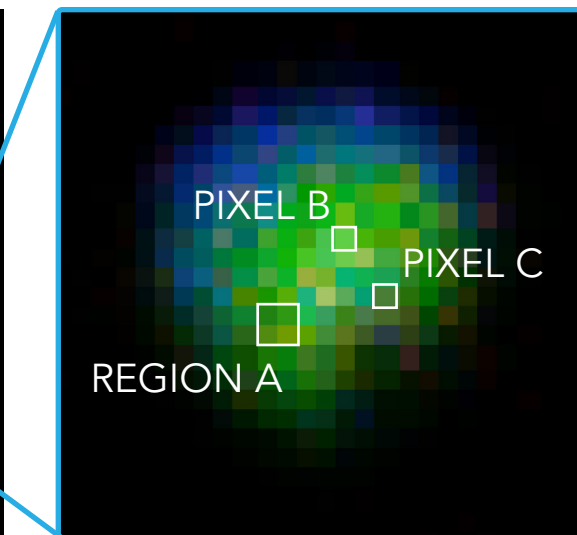
- 532 nm laser excitation wavelength (others possible)
- 335 spectral channels for each pixel
- Straightforward discrimination of shifted or overlapping emissions
- Automated scan routine with built-in spectral calibration and auto-exposure
- Works with 90mm Ø dishes or standard 96-well microplates (127mm x 86mm)
- 25-second scan time for an dish or microplate
- Bio-LIF software that includes data acquisition, powerful analysis and visualization capabilities, and the flexibility to write custom user plugins
- High-resolution, publication-ready data



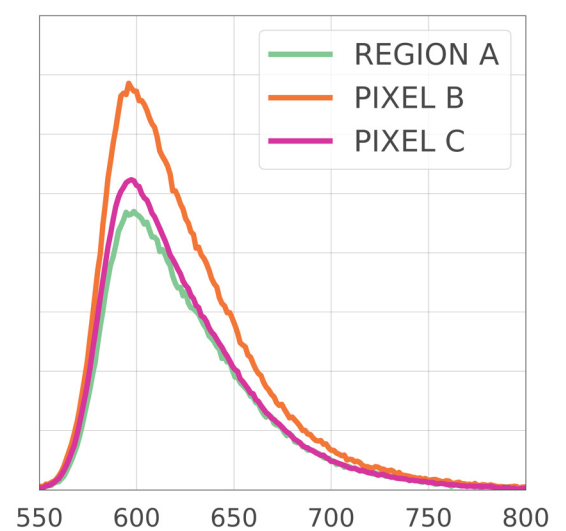
Bio-LIF Scan of  
E. Coli Colonies



60x Zoom of a Single Colony



Emission Spectra (nm)



Fast. Simple. Full Spectrum.

## BIO-LIF SYSTEM SPECIFICATIONS

<b>Input Wavelength</b>	532 nm (others possible)
<b>Output Spectral Range</b>	550 - 1000 nm
<b>Image Resolution</b>	1600 x 2065 pixels
<b>Spatial Resolution, Per Pixel</b>	60 $\mu$ m
<b>Spectral Bands, Per Pixel</b>	335
<b>Spectral Resolution (FWHM)</b>	1.9 nm
<b>Peak SNR</b>	255
<b>Data Acquisition Time<sup>[1]</sup></b>	25 seconds
<b>Weight</b>	28 kg
<b>Dimensions</b>	692 x 470 x 279 mm
<b>Power Requirements</b>	120 / 240 VAC
<b>Operating Temperature</b>	+10 to +35 C

[1] Total data acquisition time for entire dish or microplate will vary based on calibration status and sample brightness.

Bio-LIF Scan of Cottonwood Tree Leaves

