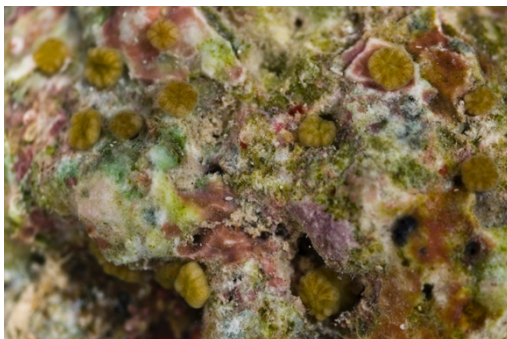


NIGHTSEA develops and manufactures products for viewing and imaging **fluorescence**, the process by which substances absorb light at one wavelength (color) and emit it at another. It is a vital imaging capability in a wide range of disciplines, including marine biology, biological research, entomology, forensic sciences, microplastics research, art conservation, agriculture, failure analysis, undergraduate education, STEM outreach and many more.

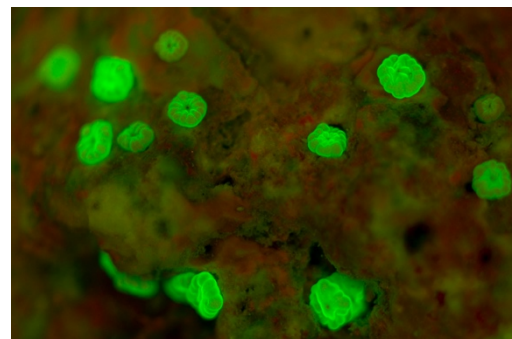
NIGHTSEA's flagship product is a **simple, economical adapter that adds a multi-wavelength fluorescence capability to existing stereo microscopes**, at a small fraction of the cost of a microscope manufactured for this purpose. Traditional purpose-built fluorescence stereo microscopes cost tens of thousands of dollars. We take a modular approach, with a starting capability under \$1,100. This enables customers to access enhanced functionality with equipment that they already own, making this important imaging technique more affordable and readily available.



The concept and initial prototype for the microscope adapter system originated within a NOAA-sponsored SBIR program to develop fluorescence-based tools to detect juvenile corals in the field. While this original challenge was highly specialized and focused, the technology has proved to have far broader application, spawning an ever-expanding offering of new adaptations, enhanced capabilities, and new accessories.



Baby corals – white light



Fluorescence

In addition to the microscope solution, NIGHTSEA makes fluorescence-exciting flashlights and various other accessories. The impact of NIGHTSEA's systems in the research community is illustrated by its citation in the Methods section of more than 300 publications that appear in more than 160 different journals or books.

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