Salvus™ Detection Technology for Human Health

The COVID-19 pandemic heightened our awareness of the need to rapidly detect viruses so steps can be taken to mitigate the spread of infection. In the case of a novel pathogen, the need to quickly develop accurate tests that can be used at the point of care is of paramount importance.

What if medical professionals and health care providers could quickly and accurately detect pathogens that cause communicable diseases, like COVID-19, in time to intervene and slow the spread of infection? What if this could be done with a handheld device robust enough to be used in extreme conditions and simple enough to be used by untrained individuals?

TECHNOLOGY TO MOVE US FORWARD

Introducing Salvus™ Detection Technology: the world's first handheld chemical and biological interferometric detector. This groundbreaking device has the ability to rapidly identify pathogens or contaminants in liquid, air or surface environments. Backed by years of research and testing, Salvus has demonstrated fast and effective detection capabilities across numerous applications.

It's an advanced solution that's ready to drive humanity forward.

Salvus™ is a lightweight, handheld and easy-to-use device that can simultaneously detect multiple contaminants, chemical or biological, providing fast and precise results within minutes. Each unit consists of an analyzer unit and disposable cartridge that are easy to operate and use in many point-of-care environments.

COMPONENTS & FEATURES

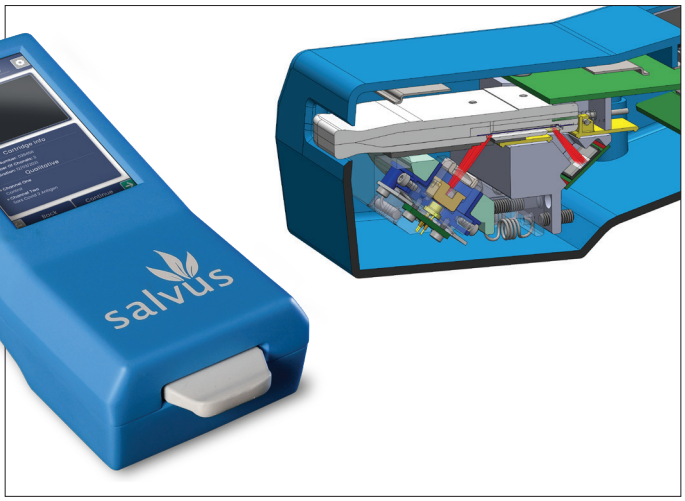
ANALYZER

- Size: 9.6" x 4.25" x 3.33"
- Weight: < 2.5 lbs.
- 4x6" color touch screen display
- Ethernet, Bluetooth, Wi-Fi or USB connectivity
- Vibration and impact resistant
- Easy to clean and disinfect
- Powered via battery or universal AC

CARTRIDGES

- Size: 3" x 2" x 0.4"
- Discrete and disposable
- Multi-plex capabilities
- Rapid deployment for new chemical or biological targets

ANALYZER AND INTERCHANGEABLE DISPOSABLE CARTRIDGE

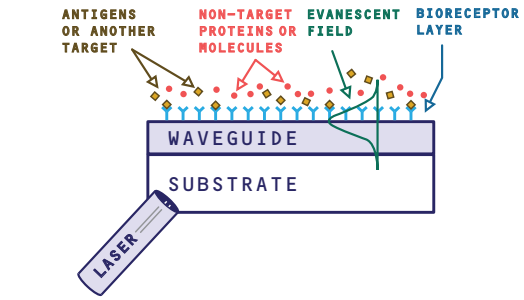


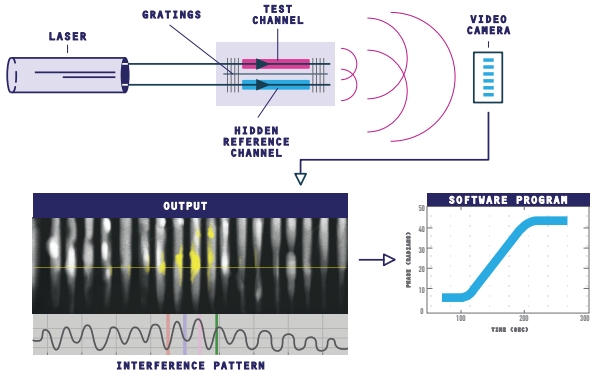
HOW IT WORKS

Salvus can test a variety of sample types such as liquids (blood, serum, saliva, swabs, etc.) and air using many sensitive materials as a receptor. The receptor may include antibody, antigen, aptamer, RNA, DNA or MIP. Cartridges are pre-configured and ready to use.

Here's how Salvus works:

1. Waveguides are embedded on the cartridge substrate.
2. Bioreceptors or chemically sensitive materials are coated onto the waveguide.
3. A laser illuminates the waveguide creating an evanescent field that encompasses the sensing coating.
4. The test sample is introduced.
5. Binding of the bioreceptor and the target affects the effective index of refraction of the waveguide.
6. The index of refraction is measured and reported. Speed, sensitivity, specificity and quantitative reporting are hallmarks of the Salvus technology.





PARTNER WITH US

Partner with us to further develop and exclusively represent and launch Salvus in the human health industry. To learn more about this opportunity, contact:

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salvus™