

CUSTOMER STORY

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COVID-19 Testing Within One Hour Thanks to Fluxergy and Basler dart Cameras

Customer

- **Fluxergy**
- **Location:** Irvine, CA, USA
- **Industry:** Laboratory, Healthcare, IVD, Animal Health, Environmental
- **Implementation:** 2020

Application

Better, more accessible and affordable laboratory testing has just become an important topic during the COVID-19 crisis. Rapid tests and results could potentially reduce delays that have been seen in getting back results from tests that are processed in centralized labs away from the Point of Care. Fluxergy LLC, founded in 2013, is an innovative laboratory diagnostic solutions start-up funded by the co-founder of Kingston Technology. Fluxergy is developing a testing platform based on three core elements: the single-use consumable Fluxergy Card, the Fluxergy Analyzer, and its user interface Fluxergy Works. This portable and highly sophisticated sample-to-answer laboratory platform enables cost-effective and accessible laboratory testing. It will allow laboratory professionals, clinicians, veterinarians, and healthcare workers to conduct a wide range of multiplex and multimodal diagnostic tests (different types of tests all at once, up to 30 targets), utilizing a single small sample. Fluxergy's solution has applications in the medical, veterinary, food safety, and forensic fields or any setting where laboratory testing is needed. Currently, they have released testing capability for COVID-19 within 1 hour.

Solution and Benefits

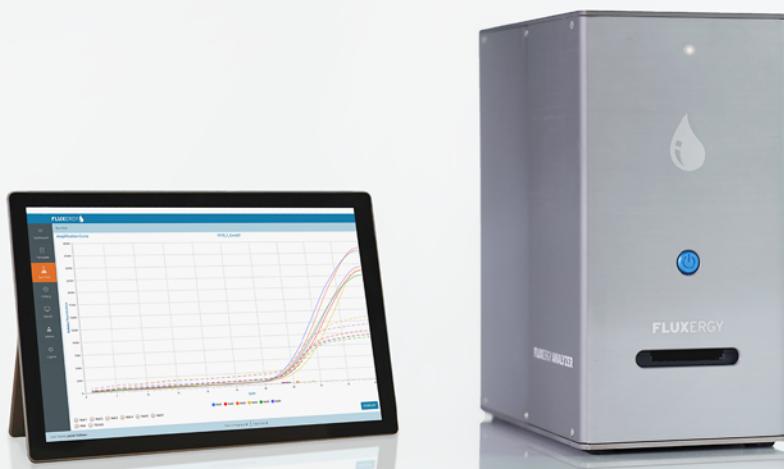
The Fluxergy system allows for portable testing in any setting and within 15-60 minutes from sample collection depending on the test. The Fluxergy Analyzer and the single use consumable Fluxergy Cards are designed to be very cost-effective and scalable, using proprietary printed circuit board (PCB) manufacturing technology and microfluidics.

Two Basler dart camera modules (daA1280-54um) can be found in each system.

Leveraging Fluxergy Works Software, as many as 256 Fluxergy Analyzers can be managed with one local server and be linked in addition to the Cloud.

Fluxergy has developed a PCR test for COVID-19 (pending FDA EUA), and is working on a combination test which includes both PCR and serology (immunochemistry). Fluxergy is also working on a respiratory panel which may enable a differential diagnosis between COVID-19, influenza, and other common respiratory pathogens. This type of test will be especially pertinent in detecting the virus during the next "flu season".

Tej Patel, President at Fluxergy explains: "We chose Basler cameras for a number of reasons. The most important one being the availability of a bare board sensor that could meet our needs in an embedded application. We continue to use and develop our devices with Basler camera modules because of their excellent service and support. The pylon Camera Software Suite and the technical support behind it has been a great boon for rapid development and testing. We are very happy with our decision to use and deploy Basler cameras."



Three part of Fluxergy's platform: Fluxery Works running on a tablet, Fluxergy Analyzer and Fluxergy Card

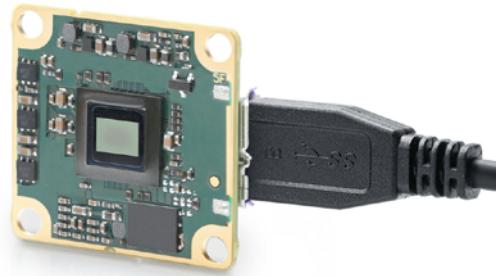


Technologies Used

- **Camera:** Basler dart camera module (dA1280-54um)
- **Software:** pylon Camera Software Suite

More Information

www.fluxergy.com



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