

Portable optical analyzer for lateral flow assays

Lumi Go

Lumi Go is a compact rapid test reader, delivering reliable quantitative results in the lab, at the point of care, and beyond. With industrial-grade optics in a coffee-cup-sized design, it supports both colorimetric and fluorescence assays and adapts to a wide range of cassette and strip formats.

Designed for the Future of Rapid Diagnostics

Lumi Go provides controlled imaging conditions and industrial-grade optics, enabling reproducible quantitative measurements while avoiding variability caused by different cameras, lighting conditions and software platforms.

Lumi Go is built on proven optical reader technology with more than 23,000 readers delivered worldwide and extensive experience in customized OEM developments. The platform which will always be customized for the end users application can easily be adapted to different consumable formats and readout settings.

Applications

Lumi Go is designed to support lateral flow assays across a broad range of applications. From healthcare and veterinary diagnostics to food safety and environmental testing, one platform meets diverse analytical needs.

Farm testing



Drug testing



Food testing



Disease testing



Eco testing



Typical Features of Your Customized Reader:

- Quantitative & qualitative lateral flow analysis
- Compact, lightweight, battery powered (on demand)
- Result in seconds with high reproducibility
- Connectivity: USB, Bluetooth, Wi-Fi
- Compatible with standard lateral flow cassettes
- Onboard data storage and export

Accelerate Your Assay Development

The Lumi Go Starter Kit enables rapid evaluation of lateral flow assays using industrial-grade optics and professional analysis software. Develop, optimize, and validate your assay with a compact platform designed for fast prototyping and future OEM integration.



The Lumi Go Starter Kit provides everything required to start quantitative assay development immediately. The compact reader, customized hardware, and intuitive software create a complete development platform for evaluating and optimizing lateral flow assays.

Included with every Starter Kit: Lumi Go reader • PC analysis software • Customized drawer insert • USB-C cable • 1-hour online training. **Available as a prototype system for development purposes.**

Technical Specifications

Measurement: Reflectance or fluorescence

Light source: Multi-wavelength LED

Detection: 1 MP monochrome CMOS camera

Wavelength range: 400–700 nm

Measurement time: <15 s (1 strip, 2 lines)

Measurement area: ~30 × 40 mm

Cassette accommodation: ~35 × 80 mm

Result: Qualitative, semi-quantitative, quantitative

Battery Life: > 500 measurements per charge

Connectivity: Wi-Fi • Bluetooth • Ethernet via USB-C

Data Storage: > 10,000 results onboard

Operating Temp: 15–35 °C • 10–70% RH

Dimensions: Ø 90 mm × 110 mm; < 400 g (incl. battery)

Display: Color touchscreen

Precision: Intra-device CV <1% • Inter-device CV <5%

Power: USB-C; optional battery operation

Test identification: 2D barcode via integrated camera

Software: SDK for Windows/Linux; documented API for integration into customer software

User interface: Operated via PC, tablet, or smartphone; optional integrated display

Quality control: Self-test and calibration against internal reference material

Multiplexing: Up to 2 strips, each with up to 4 test/control lines

Supported labels: RGB LED; custom wavelengths available on request

Illumination: RGB LED; custom wavelengths available on request

Data: Export of calculated results, peak profile, and raw image