

Optical platform
for various applications

Lumi Pro



Your Pre-developed Starting Point for Applications with Ambitious Optic Readout

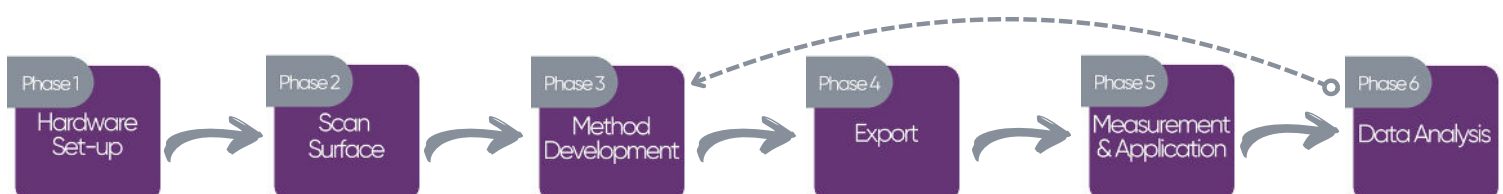
The Lumi Pro is a versatile optical reader platform offering precision, flexibility, and adaptability for point-of-care and laboratory diagnostics. Its modular architecture supports multiple detection technologies and consumable formats. The components allow a fast adaptation of the platform for your needs. Therefore you save development time to realize your optical POCT Reader.

Available Features on Demand

- LIS connection for seamless data integration
- User-centric workflow with intuitive interface
- Low measurement variability for reliable results
- Adaptable to many consumable formats
- High sensitivity and flexibility for any target
- Modular architecture for easy customization

The Complete Workflow: From Hardware to Measurement

The Lumi Flex System supports every stage of your assay development—powerful R&D tools help you to configure the instrument for stand-alone operation by non-professional users. Its integrated software tools and the Lumi Pro Reader work together in a streamlined workflow, enabling efficient assay development and reliable, reproducible results.



One Workflow. One Platform. Reliable Results.

Customize Your Very Own Reader

Flexible options to meet your needs – the Lumi Pro's modular design lets you tailor every aspect to your application.

Detection / Raw Data Evaluation

Choose optical detection module from Spectroscopy (UV/VIS, Raman, NIR) to Fluorescence Detector or Laser induced detectors like Up Converting Phosphor detection

Housing

Custom color, logo, and design options

Accessories

External printer, barcode reader

Software Customization

Custom software and fluorescence detection

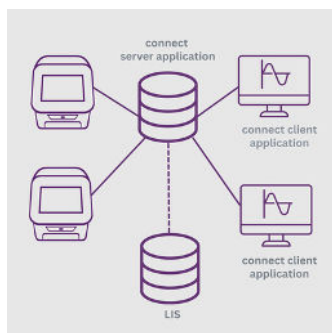
Developer Tools

Full SDK for test development

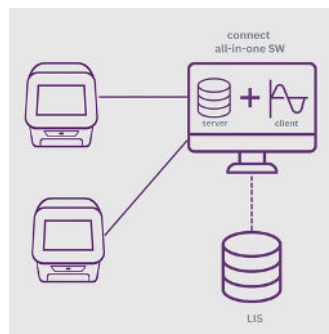
Workflow / User Interface

Tailored UI and workflow configuration

Seamless Connectivity



Integrate the Lumi Flex System effortlessly into your existing workflow. Secure data management, automated result transfer, and flexible interfaces enable smooth communication with laboratory and healthcare information systems, from stand-alone operation to fully connected environments.



Technical Specifications

Weight: 1.2 kg

Display: 4.3" touchscreen

Connections: USB, Ethernet

Connectivity: Optional Wi-Fi

Operating Temperature: 15 – 35 °C

Humidity: 20 – 80% (non-condensing)

Dipstick Size / Length: 90 mm

Test Lines: Up to 11 per strip

Light Source: Filtered LED or laser

Scan Time: < 10 seconds

Measurement Time: < 25 seconds

Data Output: Quantitative & qualitative

Calibration: Automatic

Detection: SERS, UV/VIS, Fluorescence, Luminescence

Scanning Range over Consumable: 48 x 24 mm (L x W)

Max. Consumable Size: 90 x 41 x 8 mm (L x W x H)

Absolute Detection Limit for Fluorescence Dyes: e.g. @ 470 nm excitation / 520 nm detection: 15 pMol fluorescein-sodium in 0.1 M NaOH. Sensitivity for detection modules can be adapted for application.

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