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Optical platform
for various applications

Lumi Pro

Lumi Pro – Bring your lateral flow tests to the next level

The platform Lumi Pro combines precision, flexibility, and adaptability in one powerful solution. Its precise, variable scan ranges ensure accurate and reproducible measurements across a wide range of experiments.

A broad portfolio of detection technologies—including UV/VIS, NIR, SERS, UCP, and fluorescence—can be seamlessly integrated, providing versatile analytical capabilities for research and industrial applications. Designed to accommodate multiple consumable

formats, Lumi Pro adapts easily to diverse workflows, while multiple connectivity options allow smooth integration into existing laboratory and production environments.

Built on proven, robust components, its modular architecture enables fast, cost-efficient development cycles without compromising reliability. With cutting-edge technology and practical versatility, Lumi Pro helps users accelerate innovation, explore
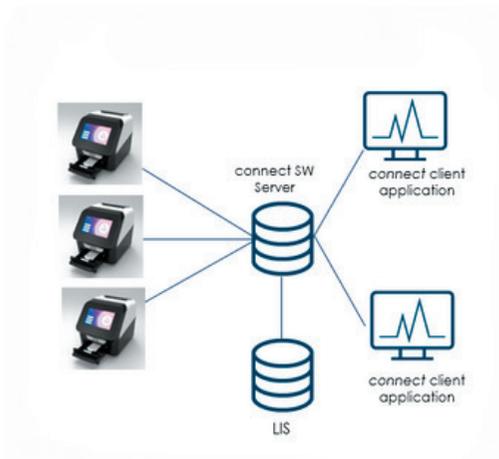
new possibilities, and achieve high-quality results with confidence.
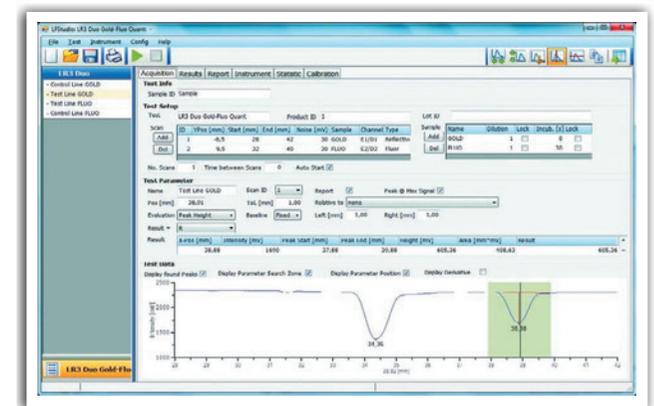
Features at a glance:
• LIS connection
• User-centric workflow
• Low measurement variability
• Compatible with all cassette formats (single or multiple strips)
• Sensitivity and flexibility (for any dye)

Scanning system and detector

Connect **Software**

Test developer tools

Flexible options to meet your needs

Customize your very own reader

Accessories
- ✔ External printer
- ✔ External barcode reader

Customization Options
- ✔ Customize your reader both internally and externally to perfectly suit your individual needs
- ✔ Tailor the fluorescence detector for your single or multiple strip assay

Detection/Raw Data Evaluation
- ✔ Compatible with any fluorescence and colorimetric dye (2 channels)
- ✔ Utilizes individual evaluation algorithms
- ✔ Features temperature compensation
- ✔ Compatible with all cassette types
- ✔ Compatible with any label type

Housing
- ✔ Individual housing colors
- ✔ Company logo / device name on the reader
- ✔ Unique drawer for specific cassette design

Connectivity
- ✔ Wi-Fi
- ✔ Bluetooth®
- ✔ Cloud connection
- ✔ LIS support
- ✔ Customized middleware

Workflow / User Interface
- ✔ Customized GUI workflow
- ✔ Branded user interface
- ✔ Test methods are entered and/or verified via barcode

- ✔ Including documentation for seamless submission

Developer software tools
- ✔ Method creation
- ✔ Multiple ROI definitions per cassette or strip
- ✔ 2D barcode creation

Technical Specifications

Instrument

Size (L x W x H)
180 x 160 x 145 mm (7 x 6.3 x 5.7 in)

Weight
1.2 kg (2.6 lb)

User Interface
• Interactive 10.9 cm (4.3 in) touchscreen
• GUI in several languages
• 2D barcode reading functionality

Connections
• 3 x USB
• Ethernet
• Optional Wi-Fi module

Connectivity
• External bar code reader
• Dymo label printer supported
• Data management software

Operating Conditions
• 15–35°C (59–95 F)
• Humidity 10–70%

Optics

Customized Fluorescence Detector
(2-channel) SERS, UV/VIS, Fluorescence, Luminescence via optical detectors

Sensitive Detection
• Colorimetric and flourescence detection
• Adjustable sensitivity for desired test object

Surveillance
Supervision of optical system amoung multiple calibration standards (Internal)

Performance

Dipstick Length
90 mm

Cartridge
Up to 90 x 41 x 8 mm (L x W x H)

Scanning Range
48 x 24 mm (L x W)

Number of Test Lines per Strip
Up to 11 test/control lines per strip

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