

Labrox single-mode reader

An individualized product with the features
you request



Labrox produces plate readers for customers with specific views as to the applications, features and technologies that they require.

These customers may be IVD companies requiring a measuring instrument to sell together with an established range of reagent kits, or life sciences laboratories wishing to extend volume or capability. In cases such as these, a Labrox single-mode reader, customized to needs, stands for assay processing efficiency and enhanced capability.

OEM supply and direct sale to laboratories

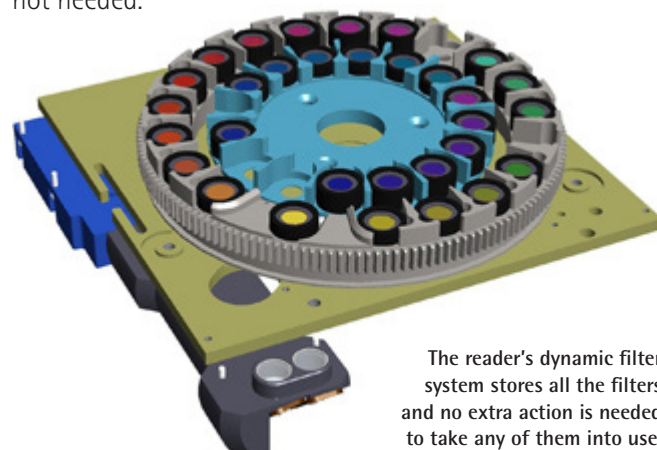


Labrox high-end plate readers are designed, built and installed to rigorous quality control standards to provide top performance and long operational life.

A specialist manufacturer of modular plate readers, Labrox works as an OEM partner with several major international companies who are satisfied that our technology excellence contributes to the consolidation of their brands. Labrox also serves individual laboratories by providing the optimum instrument solution for both standard and specialist plate reading tasks.

The features that you need

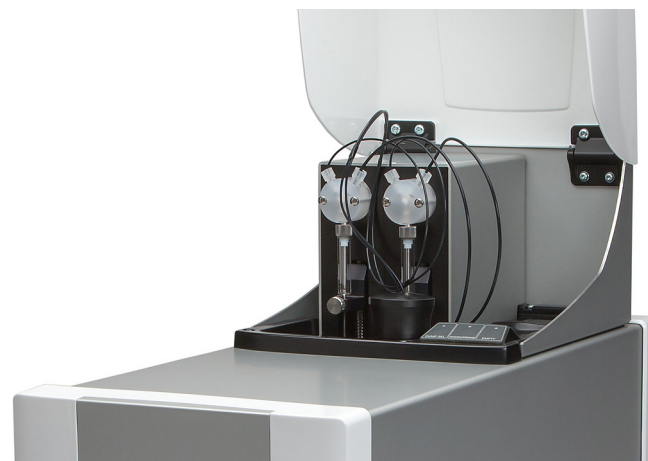
A Labrox reader is modular in its design. This means each customer gains the technical features to support efficient reading, but with no obligation to receive features that are not needed.



The reader's dynamic filter system stores all the filters and no extra action is needed to take any of them into use.

Versatile and compact

The instrument you receive will be assembled to meet your requirements in terms of measuring technology, plate formats measured, and the special features that you ask for. The reader will interface with most open system stackers and automation lines, but the unit itself takes up only a small space in the lab.



Built-in dispensers together with flexible software make various fast kinetic and flash luminescence assays possible.

Low-maintenance

The Labrox reader is a low-maintenance instrument. The company makes advanced use of remote tools, and will take all possible steps to minimize downtime due to maintenance or malfunction.

Customized for your measuring technology

For your laboratory you can choose the measuring technology you need – absorbance, time-resolved fluorometry (TRF) or upconverting nanoparticles (Upcon®)

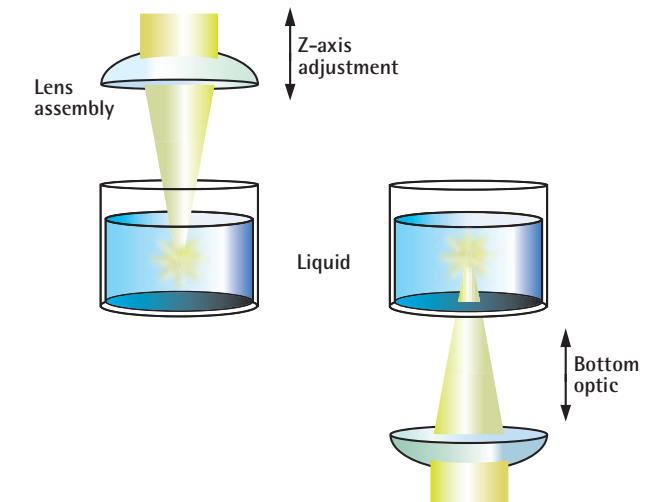
A Labrox TRF reader is suitable for all time resolved fluorescence (TRF) measurements, including DELFIA®, LANCE® and TR-FRET.

A Labrox Upcon® reader allows access to the new world of high-sensitivity Upcon® technology to end-users in R&D laboratories and various other environments.

A Labrox absorbance reader with features such as temperature control, dispensers and plate shaking make it wide in application.

For any of the technologies you can specify plate types from 1-1536-well plates and you can choose specialist features like

- Top and bottom reading
- Z-focus scan to optimize the light path for different plates / assay volumes
- Temperature control up to 65 °C



Z-focus works with both top and bottom readings. Different plates and assay volumes can be optimized with z-focus scan.

- Built-in dispensers
- Plate shaking options: linear, orbital, double orbital
- Customized software
 - 21 CFR part 11
 - Strips scanning features
- Near-infrared PMT with high sensitivity at 800 nm

Why choose Labrox as your OEM supplier?

To achieve faster and cost-effective solutions in laboratories, the IVD industry is looking towards the packaging of diagnostic/clinical chemistry kits with analysis equipment. With a white label product from us, you will have your own instrument optimized for your kits. You will save work and time through not needing to validate instruments from a whole range of manufacturers.

You will also gain new options as to your business model and raise your standing as a system supplier. Labrox can provide the instrument and user software to accord with your company's visual line.

A full choice of technologies – single or multimode

As an OEM customer you are not limited to choosing just a single mode absorbance, TRF or Upcon instrument. Instead, you can choose freely from any of the following technologies in specifying your optimum reader

- Fluorescence intensity
- Luminescence
- Time-resolved fluorometry
- Fluorescence polarization
- Absorbance (filter or spectrograph)
- Upcon

Labrox single-mode reader performance



ABS OD accuracy	< 2 % (@2 OD)
ABS OD precision	< 1 % (@2 OD)
FI detection limit (FITC)	Top < 25 amol/well (384 well plate) Bottom < 50 amol/well (384 well plate)
FI dynamic range	5 orders of magnitude
FP sensitivity (FITC)	< 3 mP
TRF detection limit (Europium)	< 0,5 amol/well (384 well plate)
TRF dynamic range	6 orders of magnitude
LUM detection limit (ATP)	< 50 amol/well (96 well plate)
LUM dynamic range	5 orders of magnitude

Labrox support

By utilizing the latest communication technology Labrox can assist in all aspects of instrumentation installation, maintenance and after-sales support. We lead the field in remote installation and can set up an instrument in any location where there is internet access. Our instruments are designed to function for long periods with minimal maintenance. We can advise on arranging a suitable maintenance package and training for you and your customer at reasonable cost and effort.

Stringent tests are performed to ensure that every unit that leaves our factory works as it should, even at extreme temperatures. If, despite our care, a fault is later discovered in a component, this will either be replaced at the customer site or the reader will be returned to us for fast repair at our factory in Finland. If needed we can arrange a temporary replacement instrument.

Social media

<https://www.linkedin.com/company/labrox/>
<https://twitter.com/labroxco>

Compliance information

Labrox company systems are ISO 9001 and 13485 compliant and its internal product quality control processes, procedures and capabilities ensures the manufacturing and installation of quality and reliable products with long operational life cycles.

Regulatory compliance is achieved through internal QA processes and external audits. ISO 9001 & 13485 certified, RoHS and REACH compliant, CE-marked, EMC-compliant, TÜV certified.