

Single-mode readers

Individualized detection systems with
the features of your choice





Measurement technologies

Uniogen high-performance plate readers are suitable for customers with specific requirements regarding assay applications, features, and technologies.

Available measuring technologies include:

- Upconverting Nanoparticle Technology (Upcon®)
- Fluorescence Intensity (FI)
- Absorbance (ABS) with optical filter or spectrometer
- Luminescence (LUM)
- Time-Resolved Fluorescence (TRF)

For all single-mode readers you can choose the best possible options from a wide variety of tested and optimized filter pairs and dichroic mirrors. All selected features are included in compact instrument size (202 mm x 268 mm x 495 mm).

Cost-effectively adaptable for your demand

- High-end single-mode plate readers for variable measuring technologies, features, and plate formats
- Modular design – the features and the measuring technology you do need
- Upgradable and customizable workhorses with a small footprint in the lab
- Reliable, low-maintenance instruments with proven long operating life and remote support
- Advanced use of remote tools for minimized downtime due to maintenance or malfunction

OEM readers

With your brand - access to proven technology and instruments

Uniogen is your experienced and easy-to-work-with partner for OEM plate readers. Uniogen plate reader technology offers unique possibilities for OEM partnerships, making instrument tailoring fast and cost-effective. With a white-label Uniogen product, you have access to your own instrument platform optimized for your kits.

Proven success in OEM partnerships

- High-performance OEM plate readers with your brand colors and logo
- Reliable, market-proven low-maintenance single-mode instruments
- Experienced customer support team supporting your business success

Customized for your measuring technology

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

- Top and bottom reading
- Z-focus scan to optimize the measurement height for different plates/assay volumes
- Temperature control from ambient +3 °C to 65 °C
- Built-in dispensers
- Plate shaking options: linear, orbital, double orbital
- Near-infrared PMT with high sensitivity at 800 nm
- Customized software
 - Possibility to meet 21 CFR part 11 electronic signature requirements
 - Lateral flow strips scanning software

Built-in dispensers together with flexible software make various fast kinetic and flash luminescence assays possible. Additionally, the reader's dynamic filter system stores all the filters, and no extra action is needed to take any of them into use.



Uniogen single-mode reader performance

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

Support

Uniogen support includes remote installation and maintenance services and after-sales support. Uniogen space-saving single-mode readers take up only small footprint in a lab and are exceptionally low-maintenance and reliable with a long operating life.

Ordering and compliance information

Uniogen provides single-mode readers manufactured under ISO 13485/9001 certified quality management system. ISO 9001 & 13485 certified, RoHS and REACH compliant, CE-marked, EMC-compliant.

Contact us for more information

Manufacturer

Uniogen Oy
 Tykistökatu 4
 FI-20520 Turku, Finland
 Tel: + 358 20 7188 380
 info@uniogen.com
 uniogen.com

Upcon is a registered trademark of Uniogen.

