

HIDEX



Hidex Sense

Multi-technology Microplate Reader

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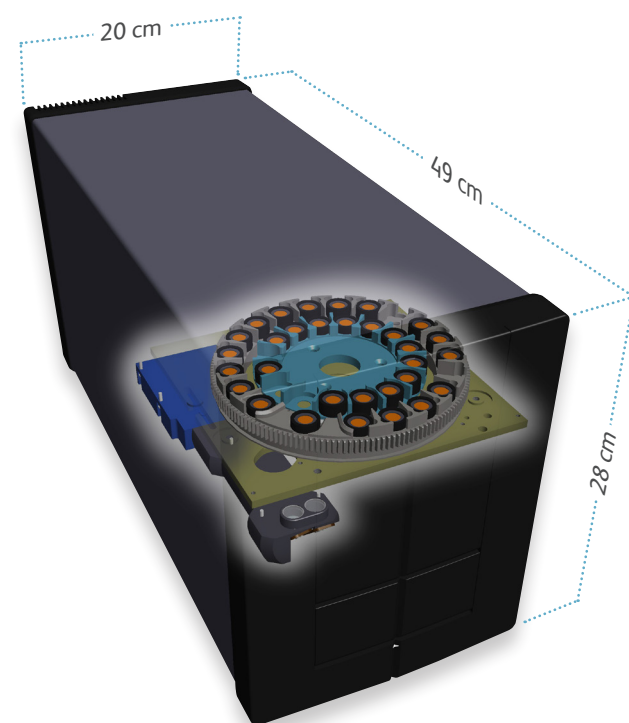
 **LabLogic**
EXPERIENCE & EXPERTISE

A compact application-ready reader

The Hidex Sense is a compact high-performance multimode microplate reader featuring all common assay technologies. It is the ideal solution for applications when uncompromised performance, usability, and sensitivity is required. It includes as standard temperature control up to 65°C, microplate shaking, versatile functionality for kinetic assays, and other features. The reader supports microplate formats from 1 to 1536 wells, or user-defined custom formats if needed.

The multi-well plate reader features all common non-radioactive detection modes such as:

- Fluorescence intensity.
- FRET.
- Dual excitation.
- Absorbance spectral read.
- Filter luminescence.
- BRET.
- Time-resolved fluorescence.
- TR-FRET.
- Fluorescence polarisation.
- AlphaScreen® (Optional).
- AlphaLISA® (Optional).



Hidex Sense Beta

Microplate radiometric assays

The Hidex Sense Beta is a high-performance microplate liquid scintillation counter for beta and gamma counting. In addition, it has high sensitivity luminescence. This microplate counter supports all common radioactive assays and plate types such as cocktail based assays, filter plates, filtermats utilising the Hidex Filtermat Adapter, solid scintillators (e.g. LumaPlate®, FlashPlates®, MeltiLex®) and Scintillation Proximity Assays.

Alternatively the Hidex Sense Beta model offers liquid scintillation counting and high sensitivity luminescence only.

Hidex Sense Beta Plus

Multimode reader with radiometric detection

The Hidex Sense Beta Plus is an exceptionally versatile and compact high-performance microplate reader, combining all the technologies of the Hidex Sense multimode reader with the radioactive technologies of the Hidex Sense Beta. The Hidex Sense Beta Plus features all common non-radioactive detection technologies, high-sensitivity luminescence, and in addition liquid scintillation, beta, and gamma counting. It is the only microplate reader commercially available for both radioactive and non-radioactive technologies.



Features

Ultrafast Absorbance Spectral Readout

Absorbance spectral readout is obtained with a high sensitivity grating CCD spectrograph, scanning the complete sample spectrum from UV to IR in less than a second per well – or simultaneously up to 10 discrete wavelengths in one measurement.

Automatic Filter Storage

An automatic filter storage with 32 filter positions used for either excitation or emission offers full wavelength coverage without a need for manual filter handling. This makes the instrument ideal for multiple users.

Optical Filters

Uses optical filters for fluorescence and luminescence, which is recognised as the most sensitive. In addition, top and bottom reading, automatic focus adjustment, apertures, dichroic beam splitter selection, and fibreless optics ensure that there are no compromises in sensitivity and performance.

Low Noise Detector

For demanding luminescence assays, the optional separate low noise detector gives extreme sensitivity. The microplate detector ensures optimal geometry with minimal crosstalk.

True Photon Counting Electronics

With true photon counting electronics for luminescence, time-resolved fluorescence, and AlphaScreen for greatest sensitivity, the Hidex Sense is officially certified for CisBio HTRF® TR-FRET, THUNDER™ TR-FRET, as well as Promega Dual-Luciferase® Reporter Assay Systems.





Accessories

Integrated Dispensers

Integrated dispensers for fast kinetics, flash luminescence assays, or dual addition assays.

Gas Control

A digitally controlled gas mixing system for cell viability, hypoxia, and other cellular assays.

Stacker System

The compact microplate stacker system features capacity for up to 50 pcs of 96 well microplates and light protected magazines for light sensitive assays.

Low Noise Detector

Separate low noise detector for demanding luminescence assays. An automatic detector touch control system moves the detector against the top of the well for best possible detection geometry as well as minimal crosstalk.

Barcode Reader

Barcode reader enables plate identification and versatile mix of separate assays in the same batch.

Robot Interface

Automation service with industrial-standard dotNET interface offers easy integration with most robotic systems.

Software

The Hidex Sense's software includes the following calculation methods:

- Concentrations with a wide range of standard curve fitting methods.
- FRET, BRET ratio and polarisation calculations.
- Absorbance ratio and reference calculations.
- DNA concentrations.
- Michaelis-Menten kinetics.
- Replicate statistics.

All results are stored real-time in the software database and can be exported to Excel at user demand or automatically. The comprehensive assay library ensures direct readiness for all labels and applications in your lab, today and in the future.

The user interface can also be operated in "office" mode for off-line data and assay template handling. Free licensed software allows users to work from multiple computers.

Support for 21 CFR Part 11 requirements is available as an optional package.



Specifications

Detection Limits

Fluorometry (Top)	< 0.01 fmol / 384 well
Fluorometry (Bottom)	< 0.05 fmol / 384 well
Photometry Spectral Range	220 nm - 1000 nm
Photometry Detection Range / Speed	0 - 4 OD / 0.35 sec/well (min.)
Filter Luminescence	< 20 amol ATP / 96 well
Time Resolved Fluorescence	< 0.25 amol / 384 well
Fluorescence Polarisation	< 1 mP SD / 96 well plate

General Features

Dimensions	20 (W) x 28 (H) x 49 (D) cm
Weight	14 kg
Plate Types	1 - 1536 well
Shaking	Linear, orbital and double orbital with adjustable intensity
Temperature Control	Ambient +2°C to 65°C
Bottom Read	Fluorescence, Luminescence, TRF, FP
Reading Speed	20 sec / 96 well

Optional Features

Liquid Scintillation Counting (Beta Plus)	LSC Mode beta and gamma emitters up to 2,000 KeV
Plate Types	24, 96, 384 well plates
Counting Efficiency	³ H 50% ± 3%, ¹²⁵ I > 65%, ¹⁴ C > 90% (96 B/W Isoplate, 10 µL organic sample + 190 µL MaxiLight cocktail)
Background	< 80 cpm
High Sensitivity Luminescence	< 6 amol ATP / 96 well
AlphaScreen®	< 100 amol (P-Tyr-100 Insulin Receptor Tyrosine Kinase)
Integrated Dispensers	1 or 2 channels, real-time detection (bottom read)
Gas Control	Digital two gas mixer (Input gas CO ₂ , Nitrogen)
Range	CO ₂ 0 - 20%, O ₂ 1 - 20%, 0.1% steps
Accuracy	CO ₂ ±0.1%, O ₂ 0.1%
Integrated Dispensers	25 or 50 plate magazines

Data and specifications are subject to change. Hidex reserves the right to alter specifications. AlphaScreen is a registered trademark of PerkinElmer. Omnibead is a trademark of PerkinElmer.

Service and Support

Users of our systems can benefit from our comprehensive, fully inclusive service and support.

We can give reassurance that if things go wrong or you need expert advice, help is only an e-mail or phone call away.

Validation Services

Our Validation Service enables you to implement and get maximum value from your investments as soon as possible.

We work as a partner with your Quality Manager, System Manager and users to provide a tailored Validation Plan, suited to your needs. Our Validation Specialists who have many years' of experience in GLP system validation, detailed knowledge of our systems, together with other industry standard systems to help you meet company and regulatory requirements.

Training

LabLogic can provide a variety of training courses and workshops to help you get the most out of your instrument and software.

All training is performed by our expert Product and Support Specialists who have many years experience in the development and use of the instruments and software.

Certificates can be provided to complement your internal GLP training records.



Visit our website



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