



Hidex **Sense Beta** Microplate Reader

Specifications

HIDEX

The **Hidex Sense Beta** is an application ready high performance microplate reader featuring liquid scintillation, beta and gamma counting and high sensitivity luminescence into one very compact instrument.

The Hidex Sense Beta supports all common scintillation assays and plates, such as filter plates, e.g. UniFilter™, Filtermats, FlashPlates®, Solid scintillators, e.g. MeltiLex® and Scintillation Proximity assays.

- ✓ Intuitive – minimal training
- ✓ Versatile – radioactive and non-radioactive assays
- ✓ Application ready
- ✓ Quick access to favorite assays
- ✓ Touch screen operated
- ✓ Compact design

The user interface is touchscreen operated with quick access to favorite assays. The software, which is top rated on the international System Usability Scale, is extremely easy to use and assume minimal user training. The software includes concentration calculation with a wide range of standard curve fitting methods and replicate statistics. All results are stored in the user software database, and can automatically, or at user demand, be exported to Excel after the run for further data handling. Results import and export functionality makes it easy to do off-line data handling.



For exceptionally demanding luminescence assays, the low noise detector gives extreme sensitivity. 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.

The reader includes temperature control, microplate shaking, versatile functionality for kinetic assays and several other features.

The optional integrated dispensers have automatic height adjustment to avoid foaming. Direct user access to the dispensing head makes it comfortable to handle for priming and rinsing.

The Hidex Sense is also available with a digitally controlled high accuracy gas mixing system for cell viability, hypoxia and other cellular assays. The CO₂ and O₂ concentrations are easily managed from the touch screen.

The Hidex Sense Microplate Reader is very compact, only 8" (20cm) wide. When not in use, the instrument hibernates automatically, saving energy and generating less heat in the environment.



Specifications **Sense Beta** 425-312

Liquid scintillation counting	LSC mode beta and gamma emitters on up to 2000 keV
Plate types	24, 96, 384 well plates
Counting efficiency	^3H 50% \pm 3%, ^{125}I > 65%, ^{14}C > 90% (96 B/W Isoplate, 10 μL organic sample+190 μL MaxiLight cocktail)
Background	< 80 CPM.
Time resolved liquid scintillation (TR-LSC)	< 20 CPM
Cross-talk	< 0,05 %, for H-3 and C-14 on PE white&black Isoplate™
Non-radioactive detection	
Direct Luminescence	< 6 amol ATP / 96 well
Other features	
Shaking	Linear, Orbital, Double orbital, with adjustable intensity
Temperature Control	Ambient + 2°C to 65°C
Integrated dispensers (optional)	1 or 2 pumps, real time detection (bottom read)
Plate types	1 – 384 well
Injection increments:	1 μL
Injection range	5 μL – 1000 μL (500 μL /stroke)
Precision	< 1% at 100 μL
Accuracy	< 1%
Injection speed	25 $\mu\text{L}/\text{sec}$ – 415 $\mu\text{L}/\text{sec}$
Dead volume	100 μL (with back flush)
Gas control (optional)	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%
Dimensions	
Width/Height/Depth	20cm/ 28cm/ 49cm (8"/ 11"/ 19")
Weight	13kg (29 lbs)

Data and specifications are subject to change, Hidex reserves the right to alter specifications.

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About Hidex



Hidex is a family owned high technology company which develops and manufactures high performance analysis equipment for life science research, nuclear measurement and nuclear medicine markets. Our products utilize modern technology and excellent tradition of workmanship. With strong links to the scientific community we continue to innovate and develop to improve scientific research and safety of everyday life.

Products

HIDEX 300 SL

A very compact automated TDCR Liquid Scintillation Counter featuring absolute activity/DPM without external radioactive standards enabling a wide variety of applications.

Automatic TDCR Liquid Scintillation Counter



Super Low Level TDCR Liquid Scintillation Counter

RADIOWATER GENERATOR

An automated production system for ^{18}O -labelled H_2O for Positron Emission Tomography studies.



TRIATHLER

A single-sample counter, which provides fast and accurate results for several life science and environmental applications, measuring all radioisotopes including tritium in a variety of sample formats.



LSC



Luminometer



Gamma Counter

HIDEX AUTOMATIC GAMMA COUNTER

We are proud to introduce our new automatic gamma counter. The compact design and superior user experience of our touch screen software makes the Hidex Automatic Gamma Counter ideal for Nuclear Medicine, PET and radiation protection work



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