

HIDEX



Hidex **Sense Beta Plus** Microplate Reader

The new dimension of versatility

With the right tools we guarantee you can focus on your work.

The Hidex Sense Beta Plus microplate reader uniquely combines liquid scintillation/beta counting and all common non-radioactive detection technologies. The time resolved liquid scintillation technology reduces background to ensure best possible counting sensitivity.

Now you can use the same instrument for GPCR assays utilizing fluorescent labels as well as receptor binding filtration and scintillation proximity assays, ELISA assays, kinase, radio immunoassays, cell proliferation and toxicity assays.

The optional integrated dispenser system offers comprehensive injection procedures with true real time readout and anti-foaming injection head technology. Injection of radiolabelled compounds enables kinetic studies, which have never before been possible.



The Hidex Sense is available with digitally controlled high accuracy gas mixing system for cell viability, hypoxia and other cellular assays. Combined with wide range temperature control, advanced shaking options, bottom read, automatic aperture and focus adjustment, the Sense is always ready to use with minimal manual setup.

- Liquid scintillation counting
- Scintillation proximity assays
- Filter plates, e.g. UniFilter™ Plates
- Filtermats
- Lumaplates®
- Solid scintillators, e.g. MeltiLex®
- 1 - 1536 well microplates
- Eppendorf tubes
- All common non-radioactive type assays
- Photometric assays with spectral read
- High sensitive direct luminescence

With effortless operation

The user interface is independently rated the highest usability level "Excellent" on the international System Usability Scale (SUS), making operation safe and comfortable with minimal operator training.

The comprehensive assay library gives immediate access to all your applications. The software includes functionality for DPM results and Beta spectrum analysis.

The Sense software can also be operated in office mode for off-line data handling. Data management on several workstations is supported with data transfer functionality and unlimited users rights

Altogether this makes the Hidex Sense Beta Plus the most versatile reader available today.



Your favorite assays are shown upfront on the screen, ready to run with a touch of your fingertip

From samples to results, simply at your fingertip

Easy to get started with

Comfortable to use

Touchscreen operated

Compact size

Specifications Sense Beta Plus 425-311 / 425-312

Liquid scintillation counting	LSC mode beta and gamma emitters 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 μ L organic sample + 190 μ L MaxiLight cocktail)
Background	< 80 CPM
Time resolved liquid scintillation (TR-LSC)	< 20 CPM
Cross-talk	< 0,05 %, for ^3H and ^{14}C on PE white&black Isoplate™
Luminescence	
Direct Luminescence	< 6 amol ATP / 96 well (Glow)
Non-radioactive detection (NOTE: Applies only for Sense Beta Plus 425-311)	
Fluorometry Top/Bottom	< 0.025 fmol / 384 well / < 0.05 fmol / 384 well
Photometry spectral range	220 nm – 1000 nm
Filter Luminescence	< 30 amol ATP / 96 well (Glow)
Time Resolved Fluorescence	< 0.5 amol Eu / 96 well
Fluorescence Polarization	< 1 mP SD / 96 well plate
Other features	
Plate types	1 – 1536 well (425-312 Sense Beta: 1-384 well)
Shaking	Linear, Orbital, Double orbital, with adjustable intensity
Temperature Control	Ambient + 2°C to 65°C
Optional features	
Integrated dispensers	1 or 2 channel, real-time detection with well bottom read
Gas control	Digital two gas mixer (Input gas CO ₂ , Nitrogen)
AlphaScreen/AlphaLISA®	< 100 amol (P-Tyr-100 Insulin Receptor Tyrosine Kinase)
Photometry	Applies to model Sense Beta 425-312 (included by default in Sense Beta Plus 425-311)
Dimensions	
Width/Height/Depth	20cm/ 28cm/ 49cm (8"/ 11"/ 19")
Weight	13kg (29 lbs)

About Hidex



Hidex is a family owned high technology company which develops and manufactures high performance analysis equipment for life science research, nuclear measurements and nuclear medicine. 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.

Contact Hidex

Call us

Tel. +358 10 843 5570

Address

Lemminkäisenkatu 62
FIN-20520 Turku
Finland

E-mail

info@hidex.com
firstname.lastname@hidex.com

www.hidex.com