

HIDEX



Hidex **Sense Beta Plus** Microplate Reader
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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

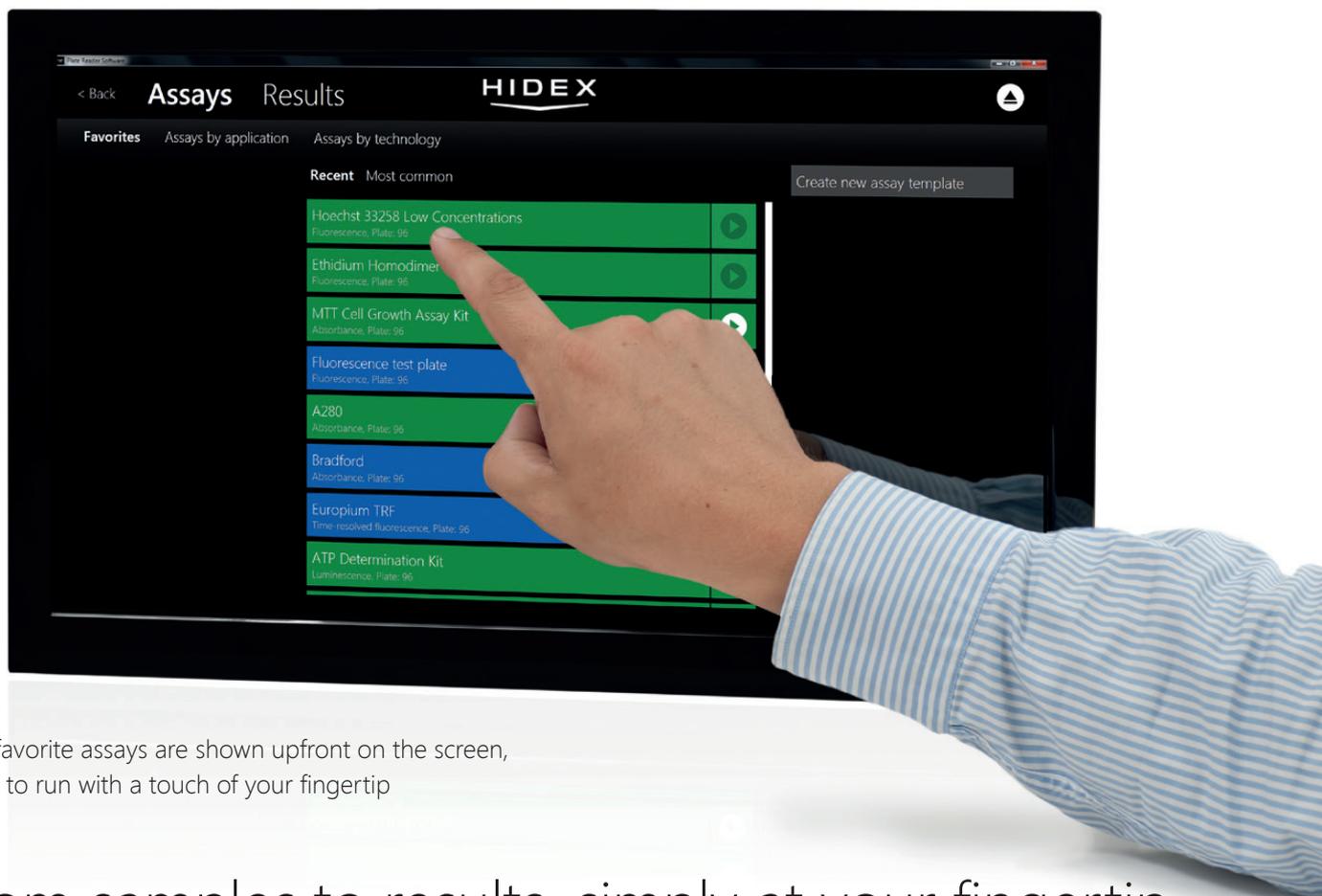
With effortless operation

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 / Sense Beta 425-312

Liquid scintillation counting

Plate types	LSC mode beta and gamma emitters up to 2000 keV 24, 96, 384 well plates
Counting efficiency	³ H 50% ±3%, ¹²⁵ I > 65%, ¹⁴ C > 90% (96 B/W Isoplate, 10µL organic sample + 190 µL MaxiLight cocktail)
Background	< 80 CPM
Time resolved liquid scintillation	< 20 CPM
Cross-talk	< 0,05 %, for ³ H and ¹⁴ C on PE white&black Isoplate™

Luminescence

Direct Luminescence	< 6 amol ATP / 96 well (Glow)
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Non-radioactive detection (NOTE: Applies only for Sense Beta Plus 425-311)

Fluorometry Top/Bottom	< 0.010 fmol / < 0.05 fmol / 384 well
Photometry spectral range	220 nm – 1000 nm
Filter Luminescence	< 20 amol ATP / 96 well (Glow)
Time Resolved Fluorescence	< 0.25 amol Eu / 96 well
Fluorescence Polarization	< 1 mP SD / 96 well plate
AlphaScreen/AlphaLISA (Optional)	<100 amol P-Tyr-100 Insulin Receptor Tyrosine

Other features

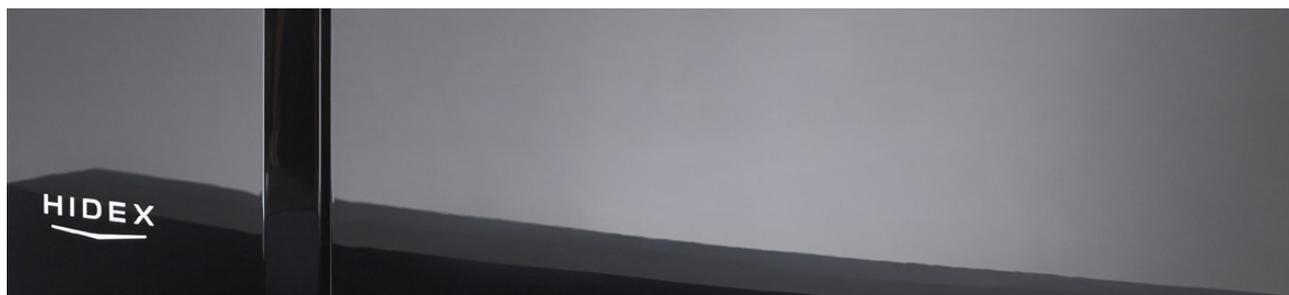
Plate types	1 – 1536 well (Sense Beta 425-312: 1-384 well)
Shaking	Linear, Orbital, Double orbital, with adjustable intensity
Temperature Control	Ambient + 2°C to 65°C

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)
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)



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

Today more than 3000 Hidex precision instruments are at service in leading laboratories worldwide as well as in some of the hardest conditions on the planet. Jungles and deserts, oil platforms and ocean going vessels – even submarines are no challenge for Hidex instruments.

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