

Hidex Sense

Multi-technology Microplate Reader



HIDEX

LabLogic

EXPERIENCE & EXPERTISE

Performance beyond comparison

The Hidex Sense is a compact, state-of-the-art, multi-technology microplate reader which provides a powerful and flexible platform for performing any kind of assay without limitations.

The Beta Plus version of the Sense uniquely combines liquid scintillation counting (LSC) with all common non-radiometric measurements, such as fluorescence and absorbance, into one very compact unit.

The dedicated PMT detector for LSC is also utilized to obtain ultra-high sensitivity luminescence for demanding applications and for reducing reagent use in assays such as dual luciferase. This option provides users with up to 10 times more sensitivity than other common plate readers.

Multi Technology

The Hidex Sense uniquely combines:

- Fluorescence
- Absorbance
- Luminescence
- Fluorescence Polarisation
- TR – Fluorescence
- FRET
- TR-FRET
- Dual Excitation Fluorescence
- BRET
- AlphaScreen® (Optional)
- High Sensitivity Luminescence (Optional)
- Liquid Scintillation Counting (Optional)

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



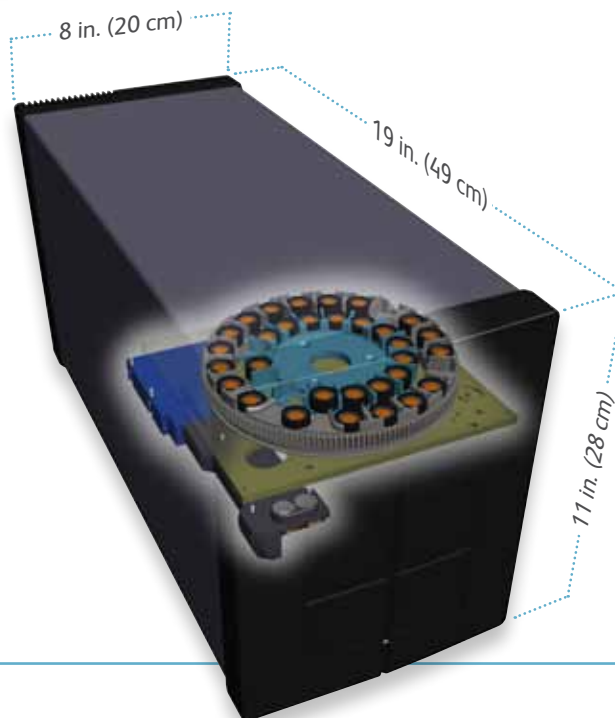
Innovative Design

Amazingly Compact

The compact size makes Sense ideal for even the smallest laboratory and allows it to be easily adapted for robotic integration or situated within environmental control cabinets.

Unique Filter Arrangement

The innovative optical filter system can hold up to 32 optical filters, eliminating the need to change filters frequently. Filters are automatically identified by the software and can be used for both excitation and emission without any limitation.



Intuitive Software

The Hidex Sense will help your lab become more efficient. Its extremely user friendly software – rated ‘Excellent’ on the System Usability Scale (SUS) – requires minimal training.

Comprehensive Assay Library

The software includes a comprehensive assay library and variety of data analysis tools for calculating a wide range of assay results.

Easy Export

Easy export of data to Excel, as well as the capability of importing and exporting templates makes the system ideal for multi-user environments.

User Friendly Interface

The touchscreen user interface is designed to make operation quick and simple. Application focused operation minimizes time spent on instrument training and reading manuals.

Instant Access to your Assays

Favorite and recent assays are shown upfront on the screen, ready to run with a touch of your fingertip.



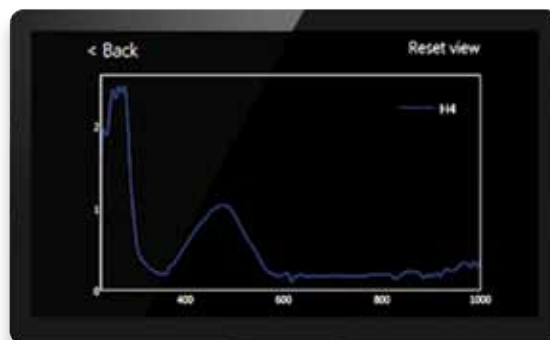
Superior Performance

Sensitivity and Speed

Utilizing filter technology for fluorescence applications not only gives optimal sensitivity but also fast reading speeds.

Spectrograph

Protein quantification, enzyme activity and other photometric assays benefit from recording the full spectrum. Ultrafast spectrum readout is obtained in the Sense by using a high sensitivity spectrograph. The sample spectrum is scanned in less than a second, with no compromise to sensitivity.



Flexibility

Sense offers several other useful features, including:

- Temperature Control up to 65°C
- Incubation and Shaking (linear, orbital, double orbital)
- Kinetics (by plate or well)
- Multiplexing
- Atmospheric Control Unit for user defined O₂ and CO₂ atmospheres
- Stacker for high throughput
- Automatic Dispensers



Automatic Dispensers

For the addition of reagents or kinetic measurements the Sense offers an optional one or two channel dispensing system. Injections can be performed either by well or by plate, for fast reactions or to maximize throughput.



Gas Control

A digitally controlled, high accuracy gas mixing system for cell viability, hypoxia and other cellular assays is available as an option. The CO₂ and O₂ concentrations are easily managed from the touchscreen.

Specifications

Detection Limits

Fluorometry (Top)	< 0.025 fmol / 384 well
Fluorometry (Bottom)	< 0.05 fmol / 384 well
Photometry Spectral Range	220 nm - 1000 nm
Photometry Detection Range / Speed	0 - 4 OD / 0.3 sec/well (min.)
Filter Luminescence	< 30 amol ATP / 96 well
Time Resolved Fluorescence	< 0.5 amol / 384 well
Fluorescence Polarisation	< 3 mP SD / 96 well plate

General Features

Weight	29 lbs (13 kg)
Plate Types	1 - 1536 well
Shaking	Linear, 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
Direct Luminescence	< 6 amol ATP / 96 well
AlphaScreen®	< 8.0 ng/mL Omnibead™
Integrated Dispensers	1 or 2 channels, real-time detection (bottom read)

Gas Control

Range	CO ₂ 0 - 20%, O ₂ 1 - 20%, 0.1% steps
Accuracy	CO ₂ ±0.1%, O ₂ 0.2%

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.

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