

# 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.

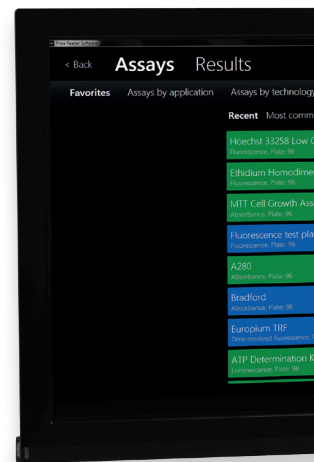
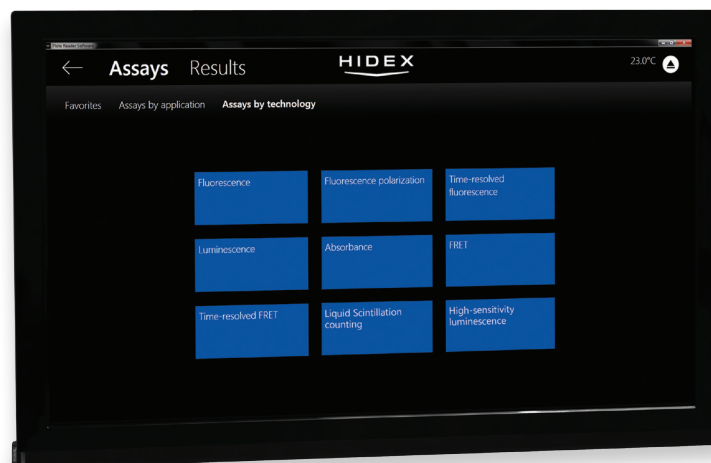
The dedicated PMT detector for LSC is also utilised to obtain ultra-high sensitivity luminescence for demanding applications and for reducing reagent use in assays such as dual luciferase. This option provides users with up to 10 times more sensitivity than other common plate readers.

## 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.



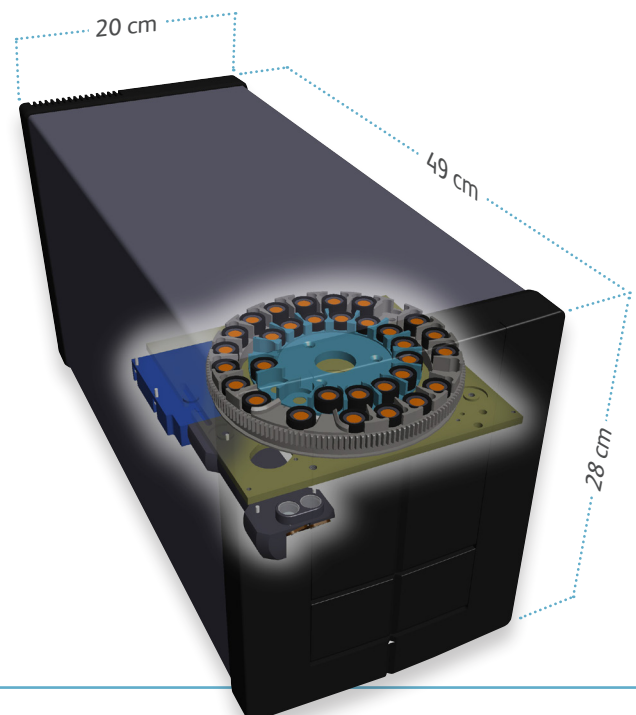
## Innovative Design

### 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 minimises time spent on instrument training and reading manuals.

### Instant Access to your Assays

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



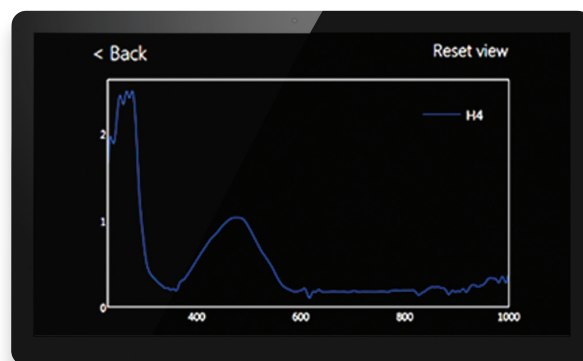
## Superior Performance

### Sensitivity and Speed

Utilising 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

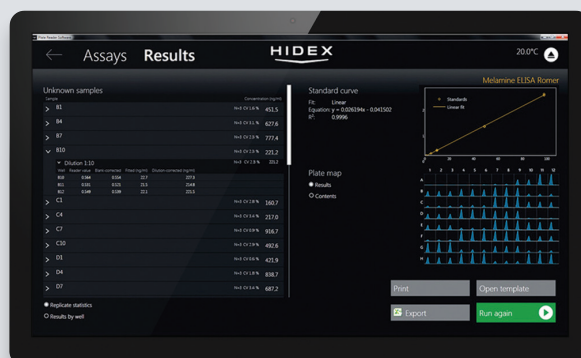
Sense offers several other useful features, including:

- 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 O<sub>2</sub> and CO<sub>2</sub> 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 maximise 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 CO<sub>2</sub> and O<sub>2</sub> 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	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

<b>Liquid Scintillation Counting</b> (Beta Plus)	LSC Mode beta and gamma emitters up to 2,000 KeV
Plate Types	24, 96, 384 well plates
Counting Efficiency	<sup>3</sup> H 50% ± 3%, <sup>125</sup> I > 65%, <sup>14</sup> C > 90% (96 B/W Isoplate, 10 µL organic sample + 190 µL Maxilight cocktail)
Background	< 80 cpm
<b>Direct Luminescence</b>	< 6 amol ATP / 96 well
<b>AlphaScreen®</b>	< 8.0 ng/mL Omnibead™
<b>Integrated Dispensers</b>	1 or 2 channels, real-time detection (bottom read)
<b>Gas Control</b>	Digital three gas mixer (Input gas CO <sub>2</sub> , Air, Nitrogen)
Range	CO <sub>2</sub> 0 - 20%, O <sub>2</sub> 1 - 20%, 0.1% steps
Accuracy	CO <sub>2</sub> ±0.1%, O <sub>2</sub> 0.1%

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 incorporate years of experience in GLP system validation, detailed knowledge of our systems, together with other industry standard systems to help you meet your company's 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 compliment your internal GLP training records.

## Related Products

### Hidex Triathler

Liquid Scintillation Counter and Gamma Counter



### Hidex 300 SL

Liquid Scintillation Counter



### Hidex 600 SL

Automatic TDCR Liquid Scintillation Counter



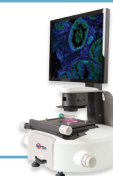
### Hidex AMG

Automatic Gamma Counter



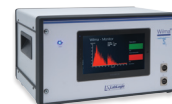
### InCellis

Smart Cell Imaging System



### Wilma

On-line Water Monitor for Radionuclide Detection



### Beta-RAM

$\beta$  Radio-HPLC Flow Detector



## Consumables



#### Europe & Worldwide

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Certificate No: 1535  
ISO 9001



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