

# Hidex Sense

## Microplate Reader

Detection Limits	
Fluorometry	< 0.01 fmol / 384 well
Fluorometry (Bottom)	< 0.05 fmol / 384 well
Photometry Spectral Range	220 nm - 1000 nm
Photometry Detection Range	0 – 40D
Photometry Detection Speed	0.35 sec / well, full spectral range, 1 nm resolution
Luminescence (Glow)	< 20 amol ATP / 96 well
Time Resolved Fluorescence	< 0.25 amol / 384 well
Fluorescence Polarisation	< 1 mP SD / 96 well plate

Optional Features	
Direct Luminescence	< 6 amol ATP / 96 well
AlphaScreen®	< 100 amol (P-Tyr-100 Insulin Receptor Tyrosine Kinase) < 8.0 ng/mL Omnibead™
Integrated Dispensers	1 or 2 channels, 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	100 µL/sec
Dead Volume	100 µL (with back flush)
Gas Control	Digital two gas mixer (Input gas CO <sub>2</sub> , 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. For the most up-to-date specifications, please visit [www.hidex.com](http://www.hidex.com)

General Features	
Plate Types	1 - 1536 well plates
Shaking	Linear, orbital, double orbital, adjustable intensity
Temperature Control	Ambient +2°C to 65°C, ±0.5°C at 37°C
Bottom Read	Fluorescence, luminescence, TRF, FP
Automatic Focus Adjustment	Top: 1 - 16 mm, 1 mm steps. Bottom: 1 - 4 mm, 300 µm steps
Automatic Apertures	Em: 0.5 - 8 mm, Ex: 1 - 11 mm
Reading Speed (TRF, 1 flash)	16 sec / 96 well plate (time between well A1 to H12)
Photometry Spectral Read	Spectrograph detector
Absorbance Sample Volume Normalisation	
Touch Screen User Interface	
Size	49 cm (L) x 20 cm (W) x 28 cm (H)
Weight	< 13 kg



# Byonoy Absorbance 96

## Microplate Reader

<b>Temperature for Storage/Mesurement</b>	-5° C to 45° C	<b>Resolution</b>	0.001 OD
<b>Relative Tolerated Humidity (Storage/ Measurement)</b>	0 - 70%	<b>Accuracy</b>	0,000 - 2,000 OD ≤ (1% + 0.010 OD) 2,000 - 3,000 OD ≤ (1.5% + 0.010 OD)
<b>Elevation</b>	Maximum 5100 m	<b>Reproducibility</b>	0,000 - 2,000 OD ≤ (0.5% + 0.005 OD) 2,000 - 3,000 OD ≤ (1% + 0.010 OD)
<b>Measurement Method</b>	Absorbance	<b>Linearity</b>	0,000 - 2,000 OD ≤ 1% 2,000 - 3,000 OD ≤ 1.5%
<b>Measurement Technique</b>	Endpoint, Kinetic	<b>Connection to Computer</b>	7" 1280 x 800 HD tablet
<b>Light Source</b>	4 LEDs	<b>Dimensions</b>	Circa. 55 x 96 x 154 mm
<b>Filters</b>	4	<b>Power Supply</b>	5 VDC
<b>Wavelength Combinations</b>	405, 450, 492, 620 nm (FWHM 10 nm) 405, 450, 540, 630 nm (FWHM 10 nm) 450, 492, 605, 650 nm (FWHM 10 nm)* *custom wavelength combinations in the range of 405-650 nm are available upon request.	<b>Nominal Value/ Characteristic of the Fuse</b>	1A/very fast acting
<b>Detection</b>	96 Photodiodes	<b>Power Input</b>	2.5 W
<b>Measurement Range</b>	0 - 4.0 OD	<b>Weight</b>	< 1 kg

Specifications are subject to change without notice.  
For the most up-to-date specifications, please visit [www.byonoy.com](http://www.byonoy.com)



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Certificate No: 1535  
ISO 9001



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