Product Datasheet

Hidex **Sense**

Microplate Reader

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	

Dimensions	
Weight	< 13 kg

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 – 4OD
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

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Optional Features	
Direct Luminescence	< 6 amol ATP / 96 well
AlphaScreen®	< 100 amol (P-Tyr-100 Insulin Receptor Tyrosine Kinase)
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 CO2, Nitrogen)
Range	CO^2 0-20%, O^2 1-20%, 0.1% steps
Accuracy	CO^2 0.1%, O^2 0.1%

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Version 1.1 November 2021