Request a Quote

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Preconfigured Ocean HDX Spectrometers

Select Model

Delivery Country

Singapore

Lead Time: 2 weeks

From $6,394.00

Online prices exclude taxes, logistics and customs and trade tariffs. All offline purchases require a quotation.

Details

Ocean HDX spectrometer uses a robust optical bench design, optimized components and precision engineering to maximize optical resolution, increase throughput, reduce stray light and maintain thermal stability for integrated, industrial and research applications.

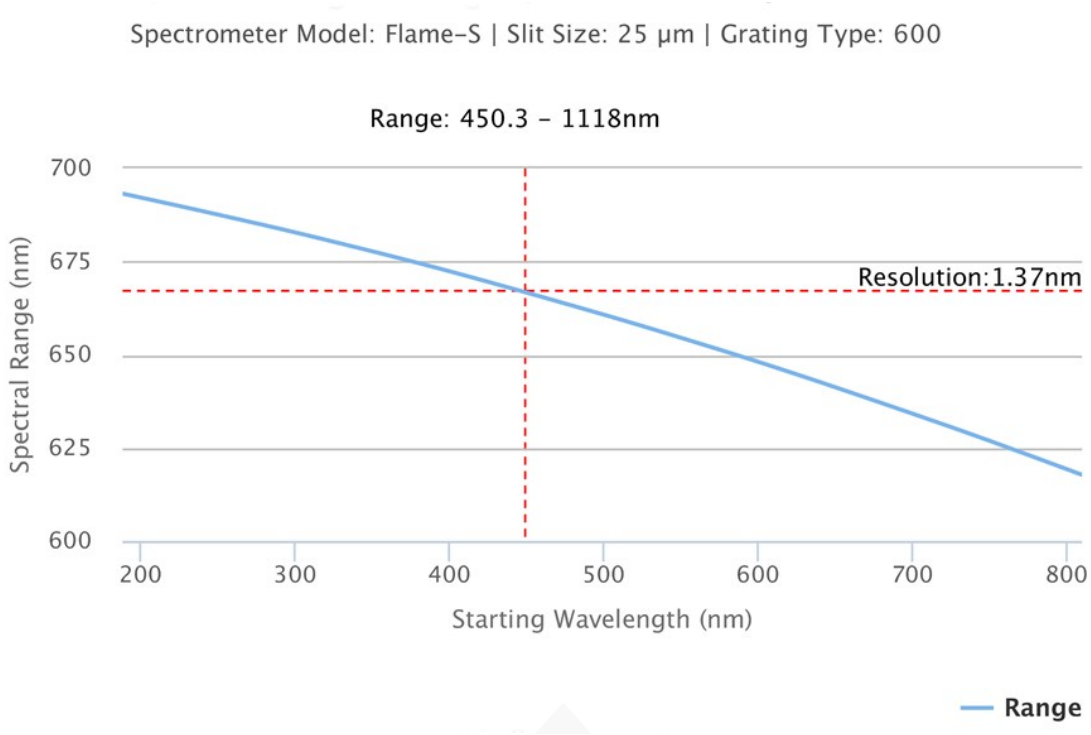
HDX has a back-thinned CCD array and High Definition Optics design, with X-Platform Electronics to enhance communication capabilities, plus powerful onboard storage and processing functions. Store up to 50,000 spectra and take advantage of onboard averaging to capture more spectral data in less time. Interface options include USB, Gigabit Ethernet, Wi-Fi, AP Wi-Fi and RS-232.

- High Definition Optics – provides high optical resolution and excellent peak symmetry for applications such as elemental analysis, plasma monitoring and endpoint detection
- High throughput – suits low light level applications such as fluorescence, bioluminescence and phosphorescence
- Low stray light – excellent for unified color measurements; gives accurate measurements of analytes in solutions with high optical density samples such as inks and dyes
- Small, thermally stable, compatible – integrates easily into production process environments for many industrial applications
- Preconfigured – choose options for UV-Vis, Vis-NIR and extended-range wavelength response

Need a custom configured spectrometer?

Flexibility in the selection of gratings, slits and other components allows users to customize solutions for specific measurement challenges.

Contact us to find out how a spectrometer can be configured.



Spectrometer Range & Resolution Calculator >

Take advantage of our technical guidance and this interactive spectrometer range-resolution tool.

Specifications

Select model to see full specifications

Select model

Spectroscopy:

Wavelength Range:
200nm - 1.1µm

Optical Resolution:

0.70 nm FWHM (typical)
0.73 nm FWHM (typical)
1.10 nm FWHM (typical)

Integration Time:

6ms - 10s

Dynamic Range:

12000:1

Input Fiber Connector:

SMA 905

Onboard Averaging:

Up to 5000 spectra

Onboard Memory:

50000 spectra

Signal to Noise Ratio:

400:1

Stray light:

>3 AU

Thermal Stability:

/- 1 pixel from 0 to 40°C

Detector:

Grating:

Grating #B1
Grating #B2
Grating #B3

Pixels:

2048

Detector:

Back-thinned CCD image sensor

Entrance slit:

10 µm

Electronics:

A/D Resolution:

16 bit

Connectors:

USB
40 pin JAE DD4 connector
Gigabit Ethernet

Inputs/Outputs:

8 x user programmable GPIOs

Trigger Modes:

4 modes

Communications:

Wired:

Ethernet
USB
RS-232

Wireless:

Wi-fi 802.11 a/b/g/n

Environmental:

Compliance:

CE
FCC Part 15 Class A
ICES-003 Class A
2014/53/EU
CISPR 11:2009 A1:2010
EMC 2014/30/EU
EN 61326-1:2013

Material:

RoHS

Operating Temperature:

0 °C to 40 °C

Storage Temperature:

-30° to 70° C

Physical:

Dimensions:

88.9 mm x 63.5 mm x 52.4 mm

Weight:

400 g

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Measurement techniques

Absorbance Measurement >

Color Measurement >

Fluorescence Measurement >

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APPLICATION NOTE

Enhanced Dynamic Range for Protein Concentration Monitoring

Optical Sensing Techniques for Quality Control of Catheters

Quantifying Protein Concentration

PRODUCT SHEET

USER GUIDE

MNL-1010 Ocean HDX User's Manual Rev C