

[Request a Quote](#)
[Products](#) > [Spectrometers](#) > [High Speed Spectrometers](#) > [Ocean FX Series Spectrometers](#) > [Preconfigured Ocean FX Extended Range](#)


Preconfigured Ocean FX Extended Range

[Select Model](#)

Delivery Country

United States



Lead Time: 2 weeks

From \$5,266.00

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

Details

The Ocean FX-XR1 is a versatile, extended-range spectrometer (200-1025 nm) with acquisition speed up to 4,500 scans per second, onboard processing for improved SNR and reduced data transfer time, and robust communications via USB, Gigabit Ethernet, RS-232 and Wi-Fi. Ocean FX is an excellent choice for high-speed process applications and measurement of fast events including flicker in lighting.

An enhanced sensitivity version (-ES) of the spectrometer has a detector collection lens for increased light collection efficiency.

Overview

- **Fast acquisition** – acquires up to 4,500 spectra per second
- **Buffering and timestamping** – onboard buffer holds up to 50,000 spectra so you don't miss a single data point
- **Onboard averaging** – average up to 5,000 spectra
- **Easy connection to other devices** – operates via Gigabit Ethernet, Wi-Fi, and USB simultaneously

Need a custom configured spectrometer?

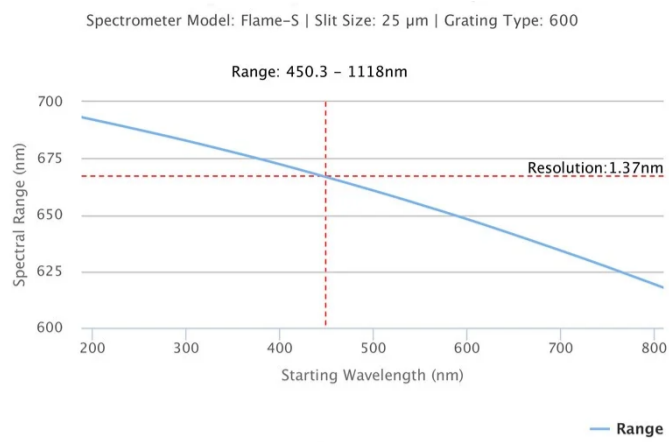
Flexibility in the selection of gratings, slits and other components allows users to customize solutions for specific measurement challenges.

[Contact us](#) to find out how a spectrometer can be configured.

Preconfigured Ocean FX Extended Range

Contact us





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 - 1.025 μm

Optical Resolution: 1.69 nm FWHM (typical)

Integration Time: 10 μs - 10s

Detector:

Grating: GRATING_#XR1

Detector: CMOS

Entrance slit: 25 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

Contact Us

Preconfigured Ocean FX Extended Range

Wired:

Ethernet
USB
RS-232

Wireless:

Wi-fi 802.11 a/b/g/n

Environmental:

Compliance:

CE
CISPR 11:2010
EMC 2004/108/EC
EN61326-1:2013
FCC

Show More ▼

Related Products



[Flame Extended Range Spectrometers >](#)

Options available

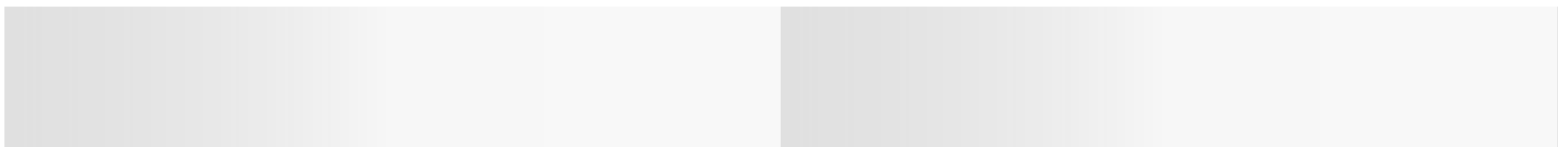
From \$4,090.00

[Preconfigured Ocean HDX Spectrometers >](#)

Options available

From \$6,207.00

Measurement techniques



[Preconfigured Ocean FX Extended Range](#)

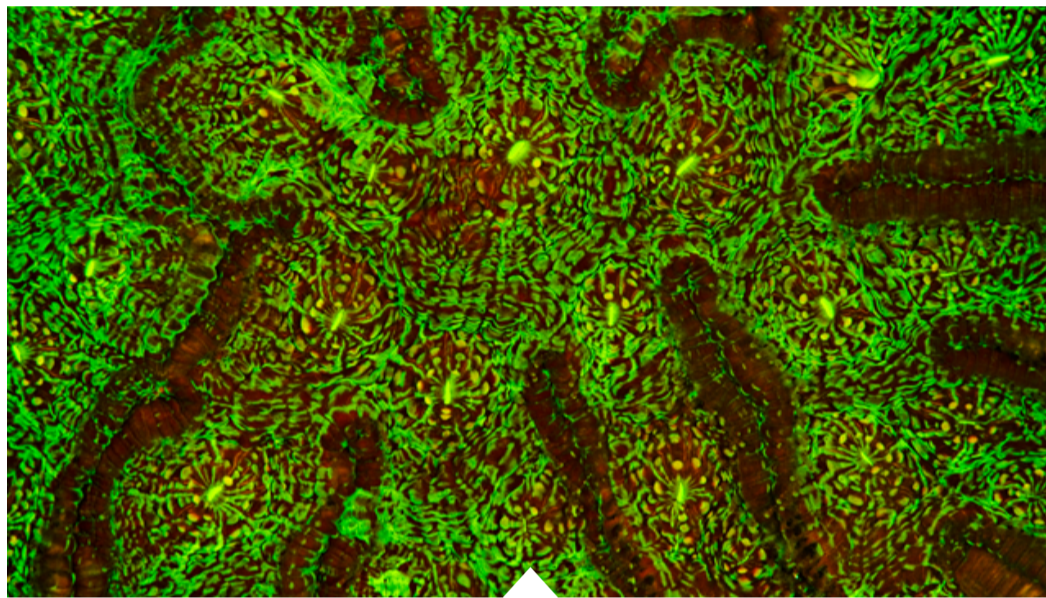
Contact us





Absorbance Measurement >

Color Measurement >



Fluorescence Measurement >

Show more ▼

Downloads

APPLICATION NOTE



[Ocean FX High Speed Applications in Home Lighting](#)



[Phosphorescence Analysis using High Power LEDs and a High Speed Spectrometer](#)

PRODUCT SHEET

[Preconfigured Ocean FX Extended Range](#)

Contact us



USER GUIDE



[Ocean-FX_Users_Guide_Ver_01.5](#)



[OceanFX-Triggering](#)



Join Our Mailing List

Email Preferences*

- Yes, I would like to receive weekly updates from Ocean Insight
- No, please do not send me information

Email*

Which market-focused content are you interested in receiving?*

- Research & Science/Government
- Life Science/Medical/Pharma
- Industrial/Manufacturing
- Environmental/Safety & Security
- Food & Agriculture

[Submit](#)

[Contact us](#) [Terms of use](#) [Privacy policy](#)

@1989 - 2021 Ocean Insight. All rights reserved.

