

Super-Fast Ocean FX Spectrometer



High Sensitivity, Fast Acquisition Speed and Enhanced Communications

Ocean **FX** delivers 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 and Wi-Fi. Ocean FX is ideal for high-speed process applications such as QC sorting and measurement

of fast events and flicker in lighting. The Ocean FX is a modular spectrometer, allowing you to source the device at the component, subsystem or system level. Ocean FX fills a niche where high speed acquisition, robust communication protocols, and onboard processing are needed.

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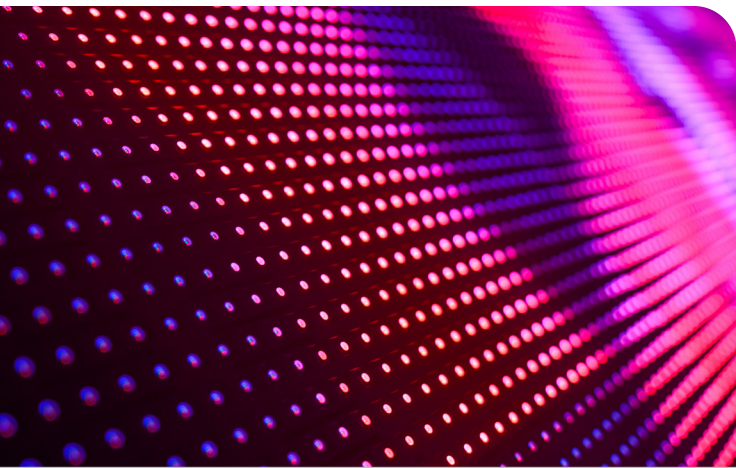
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OceanOptics



At a Glance

Spectral range: 200-1100 nm
(configurable within this range)

Optical resolution: Depends on configuration;
0.8 nm (FWHM) w/600-line/mm grating and
5 μ m slit

SNR (single scan): 290:1

Dynamic range (single scan): 5000:1

Integration time: 10 μ s-10 seconds

Scan rate (maximum): 4,500 scans/second*

Onboard processing: Buffer depth (up to
50,000 spectra); averaging (up to 5,000
spectra)

Thermal stability: 0.11 pixels/ $^{\circ}$ C

Entrance slit: 5, 10, 25, 50, 100 or 200 μ m
width slits

Input fiber connector: SMA 905 or FC

** Varies by performance of operating computer
and system.*

Spectrometer Features and Benefits

CMOS DETECTOR

Benefits	Sample Applications
Responsive from 200-1100 nm, with great sensitivity in the UV and NIR	• Biomedical applications (e.g., DNA absorbance) • UV gas analysis

FAST ACQUISITION SPEED & ONBOARD AVERAGING

Benefits	Sample Applications
Acquire and process more spectral data in less time for faster, more reliable answers Onboard averaging increases SNR and reduces cumulative data transfer times	• Food sorting and processing • Flicker measurements • Laser characterization • High-intensity plasma measurement • Measurements from transient events • Testing and QC in production environments

CMOS DETECTOR

Benefits	Sample Applications
Onboard buffer holds up to 50,000 spectra so you don't miss a single data point during measurement	• Chemical kinetics such as enzyme reactions in cells • Reaction kinetics for drug development

CMOS DETECTOR

Benefits	Sample Applications
Operates via Gigabit Ethernet, Wi-Fi, RS-232 and USB	• Remote monitoring • Portable instrumentation • Process applications • OEM product development



For more information on the Ocean FX, please contact
an Ocean Optics Application Scientist today.