



# OCEAN HDX SPECTROMETER

## High Definition Optics in a Compact Spectrometer

The Ocean HDX spectrometer uses a superior 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 new "High Definition Optics" design to deliver an exceptional level of spectral performance for a compact, UV-Visible spectrometer.

Ocean HDX uses X-Platform Electronics to enhance communication capabilities, with 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. Communication options include USB, Gigabit Ethernet, Wi-Fi, AP Wi-Fi and RS-232.



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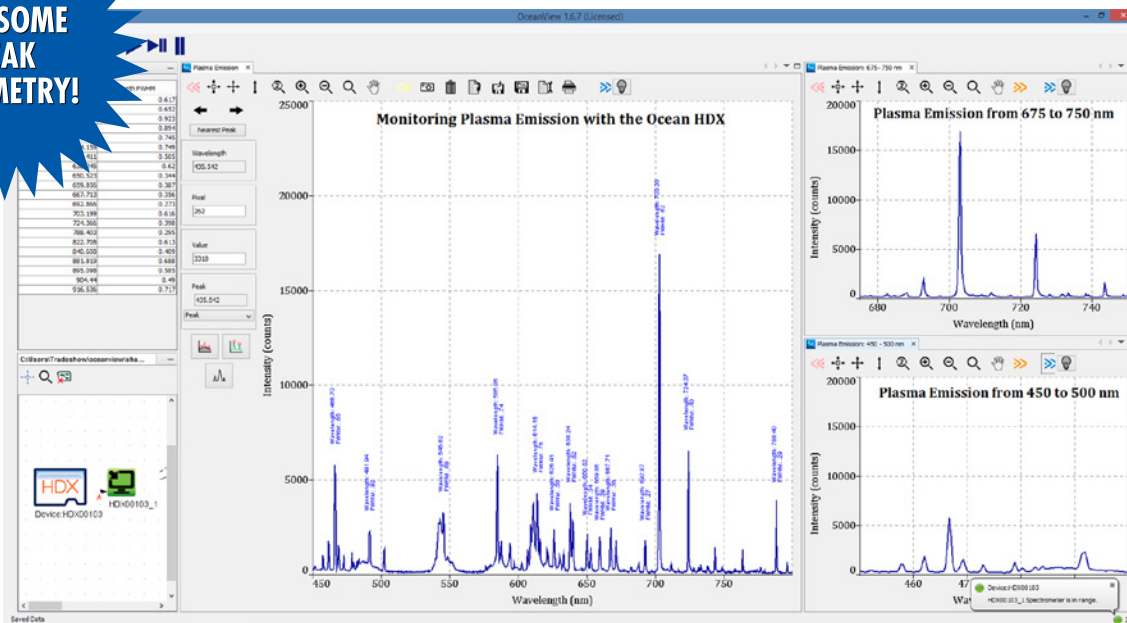
# Specifications

<b>Detector:</b>	Back-thinned CCD
<b>Spectral range:</b>	200-925 nm
<b>Optical resolution:</b>	0.61-0.72 nm (FWHM)*
<b>SNR:</b>	400:1
<b>Dynamic range:</b>	12,000:1
<b>Stray light:</b>	>3 AU
<b>Integration time:</b>	6 ms-10 seconds
<b>Throughput:</b>	f/4 cone on detector with 300 µm fiber
<b>A/D resolution:</b>	16 bit
<b>Thermal stability:</b>	+/-1.0 pixels over 0-40 °C
<b>Communications:</b>	USB, Gigabit Ethernet, Wi-Fi, AP Wi-Fi, RS-232
<b>Onboard memory:</b>	Store up to 50,000 spectra
<b>Operating temperature:</b>	0-40 °C
<b>Physical:</b>	88.9 x 63.5 x 52.4 mm dimensions, 400 g weight

\*Average over the entire spectral range using 10 µm slit



## Sample Ocean HDX Spectra



Great optical resolution and awesome peak symmetry across the entire spectrum make Ocean HDX a good choice for monitoring plasma emission lines.

For more information, please contact an Application Sales Engineer today.



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