



## Jaz Series

The Jaz series form a revolution in optical sensing. Jaz units are unique stand alone systems consisting of stackable modules. The modular set up allows you to customize the system to your (changing) application needs. Jaz is ideal for field measurements, process analysis and remote sensing.

## Applications

- » Industrial process control
- » Environmental analysis
- » Agricultural enhancements
- » Biology research
- » Solar measurements
- » Waste water analysis
- » Light characterisation

## Features

- » Powerful onboard microprocessor
- » Onboard display
- » Modular / stackable
- » Components share common electronics
- » Ethernet connectivity
- » SD card for data storage
- » Battery module
- » RoHS compliant

## Advantages

- » Standalone
- » Modules operate both separately and together
- » No need for PC
- » No need for external power supply
- » Flexible
- » Portable
- » User-friendly
- » Remotely accessible via Ethernet

# Specifications

## Jaz Sensing Modules

JAZ-S SPECTROMETER MODULE	
Detector	Linear CCD array (200-1100 nm)
Grating options	14 gratings, UV through shortwave NIR
Slit size	5, 10, 25, 50, 100 or 200 µm
Fiber optic connector	SMA 905
Wavelength range	max. 650 nm
Optical resolution	~ 0.3 - 10.0 nm (FWHM)
Signal-to-noise ratio	250 : 1
Dark noise	50 RMS counts
Dynamic range	1300 : 1
Integration time	4 ms to 65 seconds
Power consumption	~ 2.5 W
JAZ-NEOFOX OXYGEN MODULE	
Type	Fluorescence based optical oxygen sensor

## Other Jaz Modules

JAZ-DPU OLED DISPLAY MODULE	
OLED display	128 x 64 OLED display
Keypad	Push-button functions easy to read from any orientation
Onboard computer	Processor with data processing and storage capability
JAZ-E ETHERNET & MEMORY MODULE	
Ethernet	100 Mbps, IEEE 802.3-compliant 10 / 100
Data storage	via SD card
JAZ-B BATTERY & MEMORY MODULE	
Type	Rechargeable Lithium-ion
Life	8 hours before recharging

## Jaz Accessories

JAZ-MOUNT	
Sturdy mount that works with virtually any standard tripod (tripod not included)	
JAZ-SOLAR	
Solar panel charger that connects via mini-USB to recharge your Jaz in the field	
JAZ-PACK-S	
Pack with shoulder strap of light-weight, water-resistant fabric to hold your Jaz	
JAZ-PACK-W	
Pack with waist belt of light-weight, water-resistant fabric to hold your Jaz	

### Your local distributor:

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## Jaz Light Source Modules

JAZ-UV-VIS LIGHT SOURCE MODULE	
Type	Deuterium-tungsten halogen
Bulb life (estimated)	800 hours for deuterium; 2 000 hours for tungsten
JAZ-VIS-NIR LIGHT SOURCE MODULE	
Type	Tungsten halogen
Bulb life (estimated)	1100 hours
JAZ-LS LED LIGHT SOURCE MODULES	
Wavelength range	365 nm, 405 nm, 450 nm, 590 nm, 640 nm, white LED
JAZ-PX PULSED XENON LIGHT SOURCE MODULE	
Type	high flash rate, short-arc xenon lamp
Pulse frequency	max. 500 Hz
Spectral response	190-1000 nm

## Jaz Preconfigured Systems

Jaz-EL200 UV/VIS SPECTROMETER	
Spectral range	200-850 nm
Modules included in Jaz-EL200	JAZ-S, JAZ-DPU, JAZ-B, SpectraSuite software
Jaz-EL350 VIS/NIR SPECTROMETER	
Spectral range	350-1000 nm
Modules included in Jaz-EL350	JAZ-S, JAZ-DPU, JAZ-B, SpectraSuite software
Jaz-EL200-XR EXTENDED RANGE SPECTROMETER	
Spectral range	200-1050 nm
Modules included in Jaz-EL200-XR	JAZ-S, JAZ-DPU, JAZ-B, SpectraSuite software
JAZ-ULM-350 UNIVERSAL LIGHT METER	
Spectral range	350-900 nm (calibrated from 300-1050)
Modules included in Jaz-ULM-200	JAZ-S, JAZ-DPU-R, JAZ-E, JAZ-B, JAZ-MOUNT, JAZ-PACK-S, JAZ-A-IRRAD software, cosine corrector, pelican case



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