



## 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

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-DPU OLED DISPLAY MODULE	
OLED display	128 x 64 OLED display
Keypad	Push-button functions easy to read from any orientation
Onboard computer	Embedded processor with data processing and storage capability
Additional features	USB 2.0
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-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-LS450 LIGHT SOURCE MODULE	
Type	LS-450 LED



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