

RAMSES-ARC

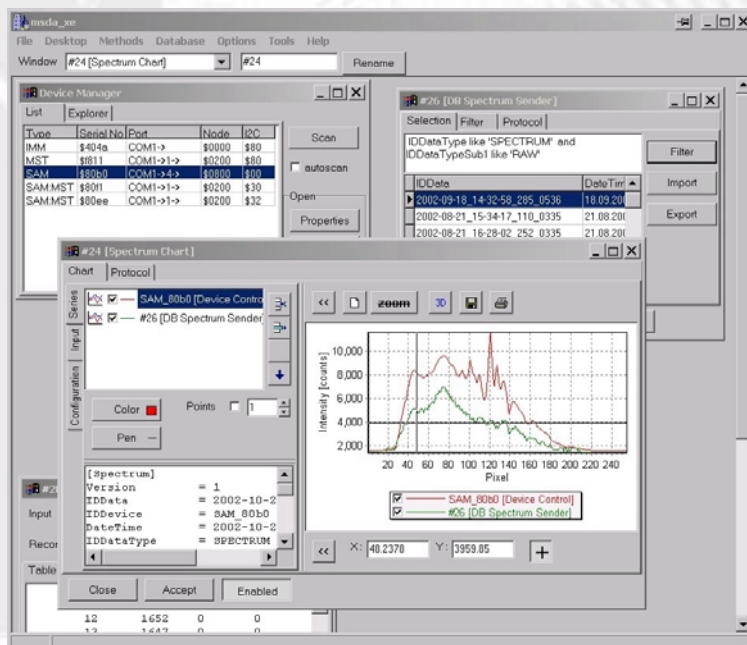
Hyperspectral UV-VIS Radiance Sensor

Features:

RAMSES-ARC is a stand-alone highly integrated hyperspectral radiometer for the UV and/or VIS spectral range. Small size and very low power consumption make it suitable for hand-held and autonomous applications. The sensor is part of the **RAMSES radiometer family**, which is especially designed for combining precision hyperspectral light measurements with a maximum of flexibility.

Applications:

- monitoring
- water quality
- field measurements
- satellite data validation
- biology
- photosynthesis
- colour measurements
- climatology



Sensors are delivered with our free graphical easy-to-use software for measurement, data display and storage.

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RAMSES-ARC

Features:

- stand-alone hyperspectral radiometer
- low power consumption
- small size
- autorange function
- free Windows-based acquisition and control software

Technical specifications	
VIS	
optical*	
wavelength range*	320 – 950 nm
detector type*	256 channel silicon photodiode array
spectral sampling*	3.3 nm/pixel
spectral accuracy*	0.3 nm
usable channels	190
typical saturation (at 500nm)	$1 \text{ W m}^{-2} \text{ nm}^{-1} \text{ sr}^{-1}$
typical NER (at 500nm)	$0.25 \mu\text{W m}^{-2} \text{ nm}^{-1} \text{ sr}^{-1}$
detection	
field of view	7° in air (can be customized)
accuracy	better then 6 % (depending on spectral range)
electrical	
integration time	4 ms – 8 sec.
telemetry data interface	RS-232 or Serial Bus
data rate (RS-232)	1,200 – 19,200 baud
power requirements	1.5 – 11 VDC 0.85 W (data acquisition active) 80 mW (interface active) 0.5 mW (stand-by modus)
connector	SUBCONN-Micro 5 pins, male connector
physical	
size	∅ 4.7 cm x 29.7 cm (without connector)
weight in air	1.0 kg (stainless steel/POM housing)
depth range	300 m
operating temperature	-10 to +50°C

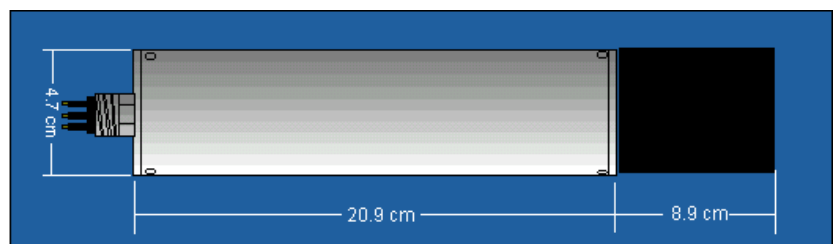
* specifications from Carl ZEISS, Germany

Specifications may change due to technical improvements without notification.



Accessories:

- power supply
- interface for simultaneous operation of up to 16 modules
- data logger units
- sensor frames



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