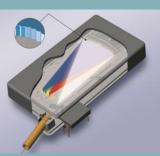




THE SPECTRAL SENSING COMPANY

aMSM NIR NT 256 micro spectrometer

Monolithic micro spectrometer for spectral sensing applications





Product features:

- » no moving parts
- » excellent mechanical, optical and thermal stability
- » unsurpassed price-performance ratio
- » small dimensions, light weight
- » designed for high volume automated production

A new generation of NIR-Systems designed by INSION. A high grade of robustness due to an improved monolithic design, brilliant optical characteristics as well as the small dimensions open up possibilities in various new and also common applications.

They are ideal for the use in analytic and diagnostic handheld devices and highly cost efficient because of the excellent inter instrument agreement. Typical applications range from instrumental analysis, biological and clinical systems to material identification and analysis of agricultural and nutrition products.







Technical Data aMSM NIR NT 256

Detector array

Fiber connector

Detector temperature regulation



InGaAs, 256 pixels

None/ optional TEC

SMA 905; IS-02 or customized

Versions:	Module/M	OEM-System/S
Dimensions (LxWxH)	60 x 36 x 8.3 mm 2.36" x 1.42" x 0.33" in	60 x 36 x 13.3 mm 2.36" x 1.42" x 0.52" in
Weight	14g/ 0.03lb (incl. Fiber and connector)	23g/ 0.05lb (incl. Fiber and connector)
Fiber length	400 mm; ± 25 mm / 15.7" ± 1 in	400 mm; ± 25 mm / 15.7" ± 1 in
Optical interface	Fiber 300/330 μm; NA = 0.22; low OH-	Fiber 300/330 μm; NA = 0.22; low OH-
Triggering	-	16 bit ADC,TTL signal (e.g. to control lamps, shutter, flash lights), synchronized with measurement, adjustable delay, TTL user bit, LV-TTL lamp or shutter control output
Interfaces	-	USB Full Speed, UART
Connectors	Flex cable	USB 2.0 (micro B socket)
Accessories	Test Report, Product Manual	Test Report, Product Manual, SPECview spectroscopy software, SPECcon Interface DLL(Native C++)
Power requirements	3.3V	Via USB or external 5V
Power consumption	66 mW (typ.)	1.5 W (typ.)