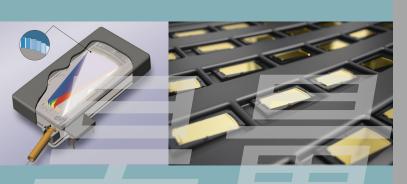




THE SPECTRAL SENSING COMPANY

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.

aMSM compact





aMSM NIR NT 256/S



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Technical Data aMSM NIR NT 256

| and the same | |
|--------------|--|

| Entrance slit | 60 μm x 300 μm |
|---|--|
| Spectral range | 900 - 1700 nm / optional1050—1850 nm |
| Spectral resolution [FWHM] | Typ. 10 nm _{FWHM} / 4.1 nm _{Pixel} |
| Spectral accuracy | 2 nm (typ.) |
| Blazed grating | g = 5.7 μm / d = 0.8μm |
| Reproducibility | ≤ 0.1 nm |
| Sensitivity | > 150 E12 cts x nm/Ws @1500 nm |
| Signal to noise ratio (with 16 bit ADC) | ≥ 5,000 at T _{INTEGRATION} = 2 ms |
| Thermal wavelength stability | < 0.05 nm/K |
| Dispersion | 4.1 nm/Pixel |
| Integration time | 0.01 - 60,000 ms |
| Stray light attenuation | > 20dB _{LWP 1200; SWP 1900} , (30 dB using SC30T) |
| Operating temperature | 5°C to 45°C |
| Storage temperature | -40°C to 60°C |
| Humidity | 0% - 90% noncondensing |
| Det ector array | InGaAs, 256 pixels |
| Detector temperature regulation | None/ optional TEC |
| Fiber connector | 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.) |