



L: 35.73mm; W: 43.54mm; H: 10.1mm

Features & Benefits:

- Ultra-compact size allows for minimal footprint in embedded applications
- Simple integration with host device
- High optical resolution for accurate spectral response
- Fast spectral response times

Spectrometer Module

JADAK's SM-1400 Spectrometer is optimized for integration into devices that utilize spectral analysis measurement techniques. With wide spectral coverage, high optical resolution, and fast spectral response, the SM-1400 is especially well-suited for embedded spectral measurement applications. The SM-1400 features a built-in linear CCD-type sensor and 8- to 16- pins external interface for simple assimilation to host devices.

Engineered with ease of integration in mind, the ultra-compact housing design is easy to mount and provides a sturdy and reliable optical path, ensuring stability for movement-free measurements.

The SM-1400 is ideal for medical diagnostic equipment ranging from in vitro bio fluid assay analysis to in vivo cancer detection.

Applications:

- Medical Diagnostic Equipment
- Semiconductor Industry Process Diagnostics
- Color/Fluorescence Measurement
- Biology/Chemistry/Biochemistry Applications
- Food and Agriculture/Pollen Measurement
- Chemicals/Plastics/Polymers Analysis
- Petrochemicals/Pharmaceutical Analysis



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SM-1400

Electrical	
Interface	CCD Direct Control
Readout	2MHz
Power	12mA at +5VDC
Supply Voltage	4.5-5.5 VDC
Optics	
Slit Width	10, 25 or 40 μ m
Optical Dispersing Element	MEMS
Input Fiber Connector	SMA905
Filters	2 nd & 3 rd Order Rejection
Spectroscopic	
Wavelength Range	380-780nm or 330-850 nm
Integration Process	1mS to the time user defines
Resolution	3-10nm (FWHM)
Detector	Sony ILX563A 3000 Element CCD
Mechanical	
Mounting Inserts	M1.6
Dimensions	35.73mm length x 43.54 mm width x 10.1 mm height
Operating Temperature	-10°C to 50°C

ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The company designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting. The company is ISO 9001 and ISO 13485 registered.

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

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