

A compact spectrometer, ready use, no power needed. ZMS spectrometer contains MMS series spectral sensors.

A new design supporting board is built inside which give a sophisticated communication and spectral acquisition function.

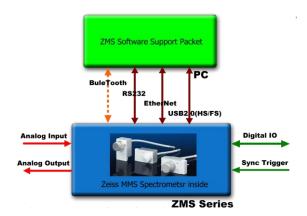
A rigid and light, not heavy alloy case helps you can use it in anywhere.

- HANDHELD
- PORTABLE
- OEM MACHINE EASY INSTALLED
- LAB –USE
- CLEAN ROOM USE

Inside ZMS:

- 1. A spectral sensor, any MMS model
- 2. PCB board
- 3. Fiber cable
- 4. All kinds of communication ports

Communication ports:



Specification

Model	ZMS UV	ZMS 1 UV-VIS	ZMS 1 NIR	ZMS UV-VIS1	ZMS UV-VIS2
Spectral sensor	MMS UV	MMS 1 UV-VIS	MMS 1 NIR	MMS UV-VIS1	MMS UV-VIS2
wavelength	195-390 nm	360-900 nm	400-1100 nm	190-720nm	250-785nm
Diode Array De	tector	<u>.</u>	<u>.</u>		
Model	HAMAMATSU S3904				
Spectral range	200-1000				
Pixel	256				
Spectral area	25 x 2500 μm²				
Optical Data					
Optical entrance	70um				
Grating	flat field holographic concave grating				
	1084 l/mm	366 l/mm	366 l/mm	366 l/mm	366 l/mm
Input	SMA905				
Spectral performance					
Optical	0.8nm	3.3nm	3.3nm	2.2nm	2.2nm
resolution	0.011111	3.51111	3.31111		2.2
SNR	5000:1				
ADC	16 Bit				
Integration time	10ms - 5000ms				
Stray light	0.3 % (Deuterium	< 0.8%(with	< 0.8%(with	< 0.3 %(with	< 0.3 %(with
	lamp, Signal at	Halogen lamp,	Halogen lamp,	Deuterium lamp,	Deuterium lamp, as
	240 nm with	Signal at 450 nm	Signal at 450 nm	as transmission at	transmission at 365
	NaJ-solution	with filter GG	with filter GG	365 nm with	nm with
	(10g/l))	495)	495)	NaNO2-solution	NaNO2-solution
				(50 g/l))	(50 g/l))
Linearity	> 99.8%				
Wavelength drift	≤0.005nm/K	< 0.02 nm/K	< 0.02 nm/K	≤0.006nm/K	≤0.006nm/K
Electronic chara	acteristic				
Power	150mA / 5VDC				
consumption	·				
Power plug	USB / POWER PORT				
Communication	RS232、USB、EtherNet、Blutooth(Options)				
port	port				
	RS232: 115200 b/s				
Communication .	USB: 480 Mb/s				
speed	EtherNet: 100Mb/s				
	Blue tooth: 115200 b/s				
control register	10 GPIO				
Analog input	2channel, 0-5V analog input (Options)				
Trionna tour	2cha nnel,0-5V/4-20mA analog output (Options)				
Trigger type	4types (software、external electric、edge-triggered、timer)				