



Title: Nebula VIS Mini Spectrometer

Material / Specification: 350-1150nm

Part number(s): OSP0401, OSP0402, OSP0403, OSP0404, OSP0405, OSP0406, OSP0407, OSP0408

Our complete ranges of mini spectrometers are designed with operating efficiency in mind.

Our Nebula VIS fiber optically coupled mini spectrometer is designed for high performance measurements of the VIS spectrum between 0.35-1.15 μ m. The system uses a highly sensitive CCD detector with 2048 pixels to maximize measurement accuracy, fitted with a fast USB interface to create instant spectral images. The system features new and improved electronics designed to give a signal to noise of 1000:1 and acquire data quickly through the spectrometer's high speed 16-bit digitizer.

Designed to be fully "Plug and Play," the Nebula VIS mini spectrometer is ready to use straight out the box. Install the supplied SpectraWiz software, plug the system in and start taking measurements without any fuss.

The Nebula VIS system is protected by a rugged case for maximum durability and contains no moving parts. Our spectrometers are designed to be highly vibration tolerant making them ideal for field applications as well as in the laboratory.

The Nebula VIS mini spectrometer is suitable for a range of UV applications including spectroradiometry, spectrophotometry, optical power measurements, LED measurements and UV level monitoring. Chemical applications include absolute intensities and moisture analysis. Dual and multi-beam applications can be achieved by configuring two or more mini spectrometers together using the USB-2 connections supplied. Up to eight systems can be connected together to and run simultaneously!



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Directors: Mr C. G. Overton, Mrs A. E. Overton. Knight Optical (UK) Ltd is Registered in England and Wales, **Registration No.** 3755966 Registered office: 34 Bower Mount Road, Maidstone, Kent, ME16 8AU **V.A.T. Registration No.** GB 703 1430 90

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Specifications:

Model:	UV I
Dynamic range:	2000:1 with 6 decades
Optical resolution:	0,4
Detector type:	CCD, 2k/3k pixels
Detector range:	200-600nm
Grating:	1200
Spectrograph:	f/4, SymX-Czerny-Turner
Order Sorting Filters:	Integrated and High Pass
Signal to Noise:	1000:1
Digitizer:	16-bit
Dimensions:	25x75x125mm
Signal to noise:	4000:1 with TEC
Weight:	0.4 kg
Power consumption:	< 100 mA via USB port
Interface:	USB or USB Hub
Detector Integration:	1ms to 65s
Slit size options:	25, 50,100, or 200µm
Stray Light:	<0.1% at 435nm;<0.05% at 600nm
Fiber Optic Input:	SMA905 0.22na single fiber
Operating Systems:	Windows XP/Vista/7/8
Software included:	SpectraWiz program & apps
Also free programs for:	LabView, Excel + VBA, Delphi



Variations of the Nebula VIS:

Model	Wavelength Range (nm)	Grating g/mm	Slit-200 nm res.	Slit-100 nm res.	Slit-50 nm res.	Slit-25 nm res.	Slit-14 nm res.
VIS I	350-1150	600	6.0	3.2	1.6	1.00	0.80
VIS II	380-780	1200	3.0	1.6	0.8	0.50	0.40
NIR I	500-1150	600	6.0	3.2	1.6	1.00	0.80
NIR II	600-1000	1200	3.0	1.6	0.8	0.50	0.40
NIR III	785-1150	1200	3.0	1.6	0.8	0.50	0.40
NIR IV	550-840	1800	2.2	1.2	0.6	0.35	0.28
NIR V	680-935	1800	2.2	1.2	0.6	0.35	0.28
NIR VI	500-700	2400	1.5	0.8	0.4	0.25	0.20
NIR VII	600-800	2400	1.5	0.8	0.4	0.25	0.20

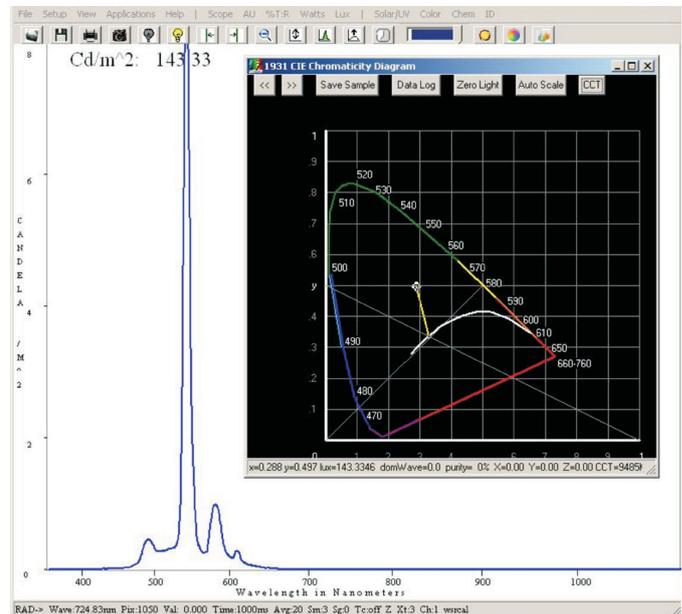
Variations:

Our Nebula VIS mini spectrometer is a highly customizable unit. Customers can choose between our standard Nebula VIS spectrometer and any of the many variations available. We are able to supply Nebula VIS spectrometers for VIS and NIR applications with a total scanning range of 350-1150nm. These options have been listed in the purchasing table in this category. For ease of use you will also find these variations listed in the table above.

All our mini spectrometers are supplied with intuitive Windows XP, Vista, 7 and 8 compatible SpectraWiz software for quick and easy measuring wherever you are. SpectraWiz software is versatile, allowing for accurately measuring and displaying wavelength emissions, reflectance, transmission, absorption, concentrations and absolute intensities.

In addition to our Nebula VIS mini spectrometer, Knight Optical also supply a range of mini spectrometer models and accessories for alternative applications, please click on the "see also" tab below, alternatively speak to our experienced, technical

sales team to discover how Knight Optical's range of high quality mini-spectrometers can improve your spectral analysis capabilities and experience.



Nebula VIS shows absolute colour measurements of LCD, plasma, OLED and LED displays.

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