

## LabSpec 5000/5100 Portable Lab Instrument



A rugged and reliable post-dispersive near-infrared spectrometer designed for the industrial, manufacturing, laboratory, and field environments, providing research-grade materials measurement information, where and when you most need it.

The Labspec<sup>®</sup> 5000 and 5100 optical spectrophotometers are truly portable, post dispersive, NIR analyzers with Ethernet and optional wireless functionality. They are valuable tools for optimizing the data testing and measurement processes on a wide selection of materials, including solids, powders, slurries and liquids, for a growing list of applications and industries.

<b>Spectral Range</b>	350-2500 nm
<b>Spectral Resolution</b>	
<b>5000</b>	3 nm @ 700 nm, 10 nm @ 1400/2100 nm
<b>5100</b>	3 nm @ 700 nm, 6 nm @ 1400/2100 nm
<b>Sampling Interval</b>	1.377 nm @ 350-1050 nm, 2 nm @ 1000-2500 nm
<b>Scanning Time</b>	100 milliseconds
<b>Detectors</b>	One fixed reflective holographic diffraction grating, silicon photo-diode array with 512 elements and high order blocking filter, 2 X fast scanning reflective holographic diffraction grating and a TE cooled "graded index" InGaAs photo-diode sensor with high order blocking filter, internal shutters, and ASD's proprietary DriftLock <sup>®</sup> automatic offset correction
<b>Connectivity</b>	10/100Base T Ethernet interface
<b>Photometric Noise @ 0 AU (RMS) w/ Transmission Probe</b>	50 μ AU from 350 - 1050 nm, 30 μ AU from 1000 - 1800 nm, 60 μ AU from 1800 - 2500 nm
<b>Power Included</b>	12 Volt DC Lead Acid Gel Cell battery belt for up to 9 hour output and external power system 90-240VAC 50/60Hz (automatic selection) input
<b>Weight</b>	12.3 lbs (5.6 kg)
<b>Operating</b>	Operating Temperature 0 - 40°

**Mapping Solutions Ltd.**

28, Roberts Avenue, Manchester M14 4DA, UK. Reg. 05228624. VAT. Reg. 989 5454 45

Tel: 0044 161 256 1341. Mob.: 0044 7825 199 303. Fax: 0044 161 241 6792

[info@mapping-solutions.co.uk](mailto:info@mapping-solutions.co.uk) [www.mapping-solutions.co.uk](http://www.mapping-solutions.co.uk)



<b>Temperature</b>	
<b>Light source</b>	Internal halogen lamp

---

**Mapping Solutions Ltd.**

28, Roberts Avenue, Manchester M14 4DA, UK. Reg. 05228624. VAT. Reg. 989 5454 45

Tel: 0044 161 256 1341. Mob.: 0044 7825 199 303. Fax: 0044 161 241 6792

[info@mapping-solutions.co.uk](mailto:info@mapping-solutions.co.uk) [www.mapping-solutions.co.uk](http://www.mapping-solutions.co.uk)