

## TerraSpec 4 Hi-Res Mineral Spectrometer

Recognized as the de facto technology for mineralogical analysis, the rugged portable TerraSpec mineral spectrometers are trusted by top geologists for performing fast, precise geologic exploration. Now the upgraded TerraSpec 4 Hi-Res mineral analyzer brings new levels of efficacy to mineral exploration technology. This state-of-the-art mineral spectrometer offers enhanced performance in the SWIR 1 and 2 regions and a 6 nm resolution to help you determine the viability of mineral exploration targets faster and more precisely than ever before. These enhancements provide you with the ability to capture accurate spectral data more quickly, especially for samples with darker mineral features.



<b>Wavelength range</b>	350-2500 nm
<b>Resolution</b>	3 nm @ 700 nm and 6 nm @ 1400/2100 nm
<b>Scanning time</b>	100 milliseconds
<b>Signal-to-noise ratio</b>	VNIR: 9,000:1 @ 700 nm SWIR 1: 9,000:1 @ 1400 nm SWIR 2: 4,000:1 @ 2100 nm
<b>Stray light</b>	VNIR: 5000:1 (0.02%) NIR: 10,000:1 (0.01%)
<b>Wavelength reproducibility</b>	0.1 nm
<b>Wavelength accuracy</b>	0.5 nm
<b>Channels</b>	2151
<b>VNIR detector</b>	(350-1000 nm) 512 element silicon array
<b>SWIR 1 &amp; 2 detectors</b>	(1001-1800 nm) & (1801-2500 nm) Graded Index InGaAs Photodiode, TE Cooled
<b>Certification and Approvals</b>	CE certified: EN61010-1:2001 2nd Edition EU Directive: 2006/95/EC, 2004/108/EC NIST traceable calibration WEEE Compliance
<b>Communications</b>	Wired: 10/100 Base T Ethernet port with Ethernet cross-over cable Wireless: 802.11g wireless card
<b>Dimensions</b>	(H x W x D) 12.7 x 36.8 x 29.2 cm (5 x 14.5 x 11.5 in)
<b>Weight</b>	5.44 kg (12 lbs)
<b>Battery weight</b>	1.2 kg (2.7 lbs)
<b>Battery run time</b>	Approximately 6 hours (without lamps or accessories)
<b>Operating temperature</b>	0 to 40° C (32 to 104° F)
<b>Storage temperature</b>	-15 to 45° C (5 to 113° F)

**Mapping Solutions Ltd.**

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The Power of Hyperspectra



<b>Input power</b>	AC/DC switching power supply and a sealed lead-acid gel cell battery
<b>AC input</b>	90-240 VAC, 50/60 Hz
<b>DC input</b>	12 VDC, 60 W
<b>Auxiliary port power</b>	Output, +12 VDC, 27 Watt (max)
<b>Software</b>	RS3™ spectral acquisition software, Compatibility with The Spectral Geologist and SpecMin, Seamless interface with ENVI®, ASD ViewSpec™ Pro for post processing, optional Indico® Pro
<b>Portability</b>	Rugged instrument transportation case; optional customized backpack with soft-sided travel bag
<b>Warranty</b>	One year full warranty including expert customer support
<b>Computer</b>	Windows® 7 64-bit laptop (instrument controller)

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