

TerraSpec[®]4

HI-RES



Fast, Precise Mineral Exploration

A mainstay in the geological research community, the TerraSpec[®] line of mineral analyzers is already recognized as the de facto technology for mineralogical analysis. Highly portable and rugged with expanded wireless capabilities, the TerraSpec 4 Hi-Res mineral analyzer, with 6 nm resolution, helps you determine the viability of mineral exploration targets faster than ever before. With enhanced performance in the SWIR 1 and 2 regions, enjoy even faster, more accurate spectral data collection, especially for samples with darker mineral features.

- Enhanced optics provide more precise spectral results for superior spectrum clarity and definition
- Double the performance in the SWIR 1/SWIR 2 regions for better alteration mineral analysis
- Improved portability features (new backpack and standard 802.11g Wi-Fi) let you move through an exploration field site more freely
- Non-destructive measurement means fast field scans.

UNIQUE APPLICATIONS:

- Mineral exploration
- Deposit mapping
- Mineral assemblage identification
- Drill cuttings analysis
- Core logging
- Early stage exploration





For mining exploration geologists, these improvements translate into faster data capture and improved data quality. The enhancements also allow accurate assessment of low-concentration and low-reflectance minerals, like iron-containing minerals such as serpentines and chlorites, which were previously difficult to measure.

The TerraSpec 4 Hi-Res mineral analyzer has been optimized for a range of mineral exploration applications, including deposit mapping.

TerraSpec 4 Hi-Res Specifications

PERFORMANCE

Wavelength range	350-2500 nm
Resolution	3 nm @ 700 nm and 6 nm @ 1400/2100 nm
Scanning time	100 milliseconds
Signal-to-noise ratio	
VNIR	9,000:1 @ 700 nm
SWIR 1	9,000:1 @ 1400 nm
SWIR 2	4,000:1 @ 2100 nm
Stray light	VNIR: 5000:1 (0.02%) NIR: 10,000:1 (0.01%)
Wavelength reproducibility	0.1 nm
Wavelength accuracy	0.5 nm
Channels	2151
VNIR detector	(350-1000 nm) 512 element silicon array
SWIR 1 & 2 detectors	(1001-1800 nm) & (1801-2500 nm) Graded Index InGaAs Photodiode, TE Cooled

CERTIFICATION AND APPROVALS

CE certified	EN61010-1:2001 2nd Edition
EU Directive	2006/95/EC, 2004/108/EC
NIST traceable calibration	
WEEE Compliance	

COMMUNICATIONS

Wired	10/100 Base T Ethernet port with Ethernet cross-over cable
Wireless	802.11g wireless card

PHYSICAL & ENVIRONMENTAL

Dimensions (H x W x D)	12.7 x 36.8 x 29.2 cm (5 x 14.5 x 11.5 in)
Weight	5.44 kg (12 lbs)
Battery weight	1.2 kg (2.7 lbs)
Battery run time	Approximately 6 hours (without lamps or accessories)
Operating temperature	0 to 40° C (32 to 104° F)
Storage temperature	-15 to 45° C (5 to 113° F)
Input power	AC/DC switching power supply and a sealed lead-acid gel cell battery
AC input	90-240 VAC, 50/60 Hz
DC input	12 VDC, 60 W
Auxiliary port power	Output, +12 VDC, 27 Watt (max)

ADDITIONAL DETAILS

Software	RS ³ ™ spectral acquisition software, Compatibility with The Spectral Geologist and SpecMin, Seamless interface with ENVI®, ASD ViewSpec™ Pro for post processing, optional Indico® Pro
Portability	Rugged instrument transportation case; optional customized backpack with soft-sided travel bag
Warranty	One year full warranty including expert customer support
Computer	Windows® 7 64-bit laptop (instrument controller)

For more information contact:

analytikLtd (UK and Ireland Distributor)
Barn B, 2 Cygnus Business Park, Middle Watch, Swavesey, Cambridgeshire, CB24 4AA
T: +44 (0)870 991 4044 F: +44 (0)870 135 2488 E: info@analytik.co.uk www.analytik.co.uk