



PRESS RELEASE

Address Counterfeit Drug Identification in the Field with a NIR spectrometer.

SPECTRAL EVOLUTION's SM-3500 is the ideal spectrometer to screen for counterfeit drugs.

Lawrence, MA – July 11, 2013 – The worldwide counterfeit drug market continues to expand – both in developing and developed countries. From fake anti-malarial drugs in Africa to counterfeits sold over the Internet, these drugs are detrimental in three primary ways:

- Patients don't receive the correct drug – leading to potential injury or death
- Patients receive contaminated versions of the correct drug which may be toxic
- Pharmaceutical companies lose revenue

SPECTRAL EVOLUTION's SM-3500 field portable NIR spectrometer can help combat counterfeiting by allowing identification and authentication using spectral matching and principal component analysis. Steps involved in these measurements include:

- Taking sample spectra of authentic drugs to form a known reference
- Checking target drugs against those spectra for authentication

The SM-3500's portability makes it well-suited for counterfeit screening applications, as it can be used at:

- Manufacturing facilities
- Warehouses
- Hospitals
- Pharmacies
- Field locations for government agencies

The UIV/VIS/NIR/SWIR range of the SM-3500 across a 350-2500nm spectral range, allows it to deliver a number of benefits:

- Minimal or no sample prep
- Rapid analysis – as quickly as a sample per second

- Non-destructive – analysis can be performed with the drug still in its packaging
- Information on structural and chemical characteristics can be measured
- Criminal and sub-standard counterfeits can be identified
- Third party chemometrics analysis programs can be used to provide more quantitative analysis of active ingredient concentrations, and excipients
- Useable with physical/chemical identifiers/markers in genuine drugs
- Easy-to-use, potentially operated by non-scientific personnel

For more information on NIR spectroscopy and counterfeit drug screening, visit:
http://www.spectralevolution.com/applications_Counterfeit.html

For more information on the SM-3500, please visit:
<http://www.spectralevolution.com/spectrometers.html>

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About SPECTRAL EVOLUTION

Established in 2004, SPECTRAL EVOLUTION is a leading manufacturer of laboratory and handheld portable spectrometers, spectroradiometers and spectrophotometers. SPECTRAL EVOLUTION spectrometers are used worldwide for many mission-critical lab and field applications in mining, remote sensing, vegetative studies, ground truthing, environmental and climate studies, developing satellite calibrations, and more, due to their reliable, robust, rugged design and user-friendly one-touch features.

SPECTRAL EVOLUTION maintains a facility in Lawrence, Massachusetts which houses design, prototyping, manufacturing and service facilities for the instruments that it markets and sells worldwide, either through direct sales, OEM sales or through distributor agents.

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