



Allied Scientific Pro

**NIRvascan Smart Near Infrared Spectrometer
Serie**

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NIRvascan

The NIRvascan is first world portable smar near infrared spectrometer with integrated tungsten halogen light source build in. It covers many field applications and is configuration is optimize for diffuse reflectance.

Diffuse reflectance is the reflection of light from a surface such that an incident ray is reflected at many angles rather than at just one angle as in the case of specular reflection. Each chemical, substance or material have their own reflectance spectrum.

Avantages of the NIRvascan:	Applications:
<ul style="list-style-type: none">• Reliable, portable, sensitive with signal to noise ratio of 5000:1• Optical resolution peak to peak 10 nm• Slit size 25 microns• Illumination module integrated and stable• APP driven on Android and OS (Iphone, Ipod, Ipad)• Bluetooth low energy (BLE) communication protocol with APP or USB• Small and compact 82.2x66x45mm, 136g• High performance integrated battery pack Li-ion 1000 scans at full power• FCC and CE approved	<ul style="list-style-type: none">• Pharmaceutic drugs identification• Pills hardness• Narcotics identifications• Plastic identification for recycling• Minerals Identification for field exploration• Food quality inspection• Agricultural plant health monitoring• Moisture in material• Textile fabrics identification• Coating reflectance• Paint pigment testing• Soil monitoring• Conservation of artistic and history works

NIRvascan Specifications :

All NIRvascan models :

Wavelength range	900-1,700 nm
Optical Resolution	10 nm
Slit Size	1.69 x 0.025 mm
Detector	1 mm InGaAs (uncooled)
Scan Capability	Linear and Hadamard
Communication Interface	USB and Bluetooth Low Energy (BLE)
Sensors	Thermopile for detector ambient humidity and temperature
Power	USB or Build-in Li-ion battery
Dimensions	82.2 x 66 x 45 mm
Weight	136 g (with battery)

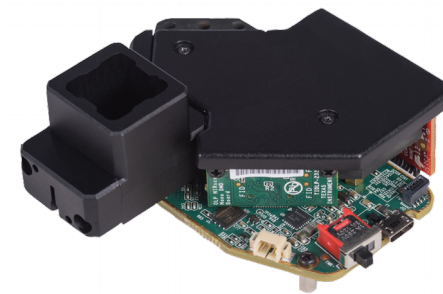
ASP-NIR-M-Reflect



ASP-NIR-M-Fiber



ASP-NIR-M-Trans



Protective window :
Robust sapphire

Illumination Module :
Diffuse reflectance with two integrated tungsten halogen lamps

Fiber Optic Connector :
SMA 905 connector for fiber input

For liquid :
Standard 1 cm cuvette, cuvette not included

Illumination Module :
Transmission with one integrated halogen lamp