

CREATE A FUTURE OF POSSIBILITIES



NIRONE® Scanner

Wireless, powerful, portable
NIR spectral device for material sensing

START THE NEXT GENERATION OF SMART MATERIAL SENSING

Introduction

Near Infrared Spectroscopy (NIRS) is a non-destructive and cost effective analysis method for material identification and quality control at any point of the supply chain.

At the heart of the solution, is our NIRONE Sensor with added mobility and smart connectivity. The battery-powered NIRONE Scanner has a smart Bluetooth connection, enabling communication with portable devices such as mobile phones and tablets.

Technology

Spectral Engines' Scanner uses a patented Micro Electro Mechanical System Fabry-Perot Interferometer enabling fast and reliable measurements.

The device works at all NIRONE Sensor spectral ranges (S1.7, S2.0, S2.2, S2.5), which means great sensitivity and specificity in material sensing applications.

The SensorControl Software via PC can be applied to collect data from materials. With the help of our Data Science Solutions and Services, new chemometric models can be created and placed in a Cloud Environment. After the model is ready, the mobile app can access the data to identify and authenticate materials within seconds.

Operation

After pairing the NIRONE Scanner with the mobile app, calibrate the sensor with our White Reference. Place the sample on the device and click on "Measure" in the mobile app. Within a few seconds, the results will be displayed in the app. All saved measurements are also available on the "History" page.

Optical reading does not alter the sample in any way. The system can be operated and cleaned easily.



Ready-to-use device

- Battery-operated
- Robust IP54 level housing



SensorControl PC software

- Control of a single device
- Free SensorControl software included



Modularity

- Fast application development
- Programmable for multiple applications



Scanner Mobile App (iOS/Android)

- Easy-to-use user interface
- Android and iOS example source code in the SDK package



Smart connectivity

- IoT compatible
- Bluetooth and USB



Device SDK Package

- SDK guide available for fast software development

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