

# CREATE A FUTURE OF POSSIBILITIES



## LabScanner Plus®

A Measurement and Identification System  
for Product Conformity

THE SMART SENSING REVOLUTION

## Introduction

LabScanner Plus® is a compact and versatile material measurement and identification system specifically designed for automatic, fast, accurate and reliable acquisition of a high number of reference data.

## Technology

At the heart of this solution are near-infrared spectral sensors that have a proven track record in obtaining highly accurate measurement data under laboratory conditions - but in the case of the NIRONE sensors, in a miniaturized, robust and cost-effective way.

## Operation

The specimen are fed into the device, separated, weighed, accurately positioned and measured by eight near-infrared spectral sensors. Each tablet is irradiated once and its unique pattern (spectrum) is recorded. All measurement data is available in JCAMP-DX, CSV, TSV or LIMS file for export to an offline system. In addition, a batch report can be generated in PDF format.

## NIRONE Scanner Platform

The LabScanner Plus® is a part of the Spectral Engines Platform: a turnkey solution that enables the rapid development of new innovative material detection applications. It provides complete instrumentation, communication methods, cloud platform, reference library creation and algorithm implementation.

## Cooperation

The development of this solution is the culmination of a successful partnership between two experts in their field: Kraemer Elektronik GmbH (KE), the specialist for measurement and testing technology of tablets, and Spectral Engines GmbH (SE), the developer of cloud & IT solutions in combination with MEMS-based spectroscopy systems.

## Options

- Tablet ejection into solid containers
- License: FDA 21 CFR-Part 11 (including audit trail, batch report, user management)
- Licenses: User management, Export (JCAMP-DX, CSV, TSV, LIMS), IQ/OQ
- Further software licenses on request

## LabScanner Plus® Benefits

### Cost Savings

- Fast measuring time
- No preparation of the samples
- Savings on shipping and external lab analysis costs

### Accuracy

- No alteration or destruction of the samples
- Automatic and precise positioning of specimens
- Continuous monitoring of the samples
- Particularly accurate spectrum recording due to darkening

### Knowledge Development

- Development of a globally accessible reference database due to the NIRONE Scanner Platform for on-spot testing
- Process / Quality control
- Production variation

### Product Conformity

- Protection of recipes (Composition is not read out)
- Recognition of fakes / substandard products

## LabScanner Plus® Profile

**WHAT:** Automatic measurement and identification system / Pattern matching

**AREA:** Research, production and product conformity

**FOR:** Bulk goods in pharma, chemistry, food, feed and seeds industry

**HOW:** Cloud-based NIR (SE) testing technology (KE)

**USP:** Automatic pattern matching with NIR and machine learning boost as part of a complete platform solution that includes data science, cloud services, handhelds, web portal and a mobile app.

## Technical Data

Dimensions	320 (W) x 320 (L) x 470 (H) mm 12.6 (W) x 12.6 (L) x 18.5 (H) in
Weight	≈ 26 kg   57.3 lbs
Power Supply	110V - 240V at 50 - 60 Hz
Wavelength	1.55 - 1.95 μm* *Further wavelengths available



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