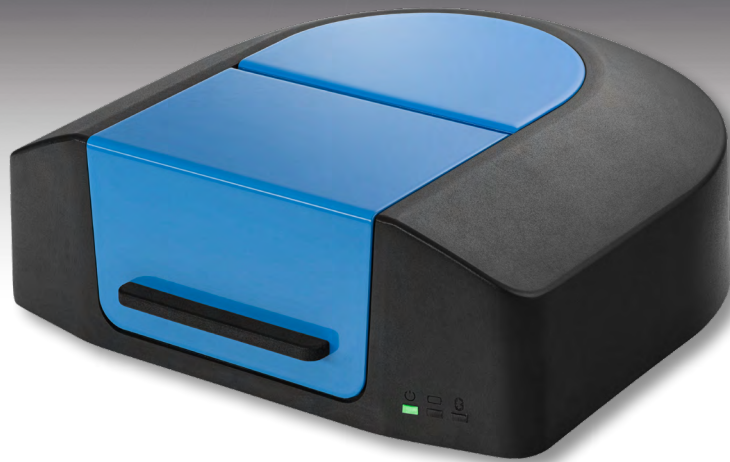**SPECTRAL ENGINES**
MEMBER OF THE NYNOMIC GROUP

CREATE A FUTURE
OF POSSIBILITIES

NIRONE® Liquid Scanner

A material scanner designed for near infrared spectroscopic transmission analysis of liquid samples.

THE SMART SENSING REVOLUTION

START THE NEXT GENERATION OF SMART LIQUID 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. It is used for liquids, powders, granules, etc.

A transmission setup is the optimal method for liquids, since the samples are irradiated in a defined layer thickness. The transmitted light contains spectral information with a particularly high signal yield. This makes it especially easy to identify and quantify active ingredients and excipients.

Technology

Spectral Engines' NIRONE Liquid 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 fluids. 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 software can access the data to identify and authenticate liquids within seconds.

Operation

First measure the reference signal, then place the sample cuvette on the holder of the NIRONE Liquid Scanner and click on "Measure". Within a few seconds, the results will be displayed. 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.

Dimensions | Weight

208 mm (W) x 214 mm (L) x 73 mm (H) | 2 kg
8.2 in (W) x 8.4 in (L) x 2.9 in (H) | 4.4 lbs

NIRONE Liquid Scanner includes:

- NIRONE Liquid Scanner with one selectable sensor S1.7, S2.0, S2.2, S2.5
- Sample cuvettes
- Quick Guide
- SensorControl Software for Windows

With the help of our solutions and services, data models can be developed for many liquids. For example:

- Pharmaceuticals composition analysis (anti-counterfeiting)
- Illicit narcotics detection
- Gasoline, Lubrication oil, Coolants, etc.
- Parfum, high quality oil identification
- Dairy, Cooking oils, etc. analysis

It makes sense.

SPECTRAL ENGINES