



T A C T I S C A N

# A NEW ERA OF LAW ENFORCEMENT

We introduce the world's first portable drug screening device, designed to detect illicit narcotics onsite with no officer exposure.

[WWW.TACTISCAN.COM](http://WWW.TACTISCAN.COM)

POWERED BY

 **SPECTRAL ENGINES**  
MEMBER OF THE NYNOMIC GROUP



## TACTISCAN

A re-usable pocket-sized narcotics scanner for law enforcement brings new safety and efficiency levels to police fieldwork.

TactiScan allows police officers to detect the most commonly used illicit narcotics onsite without officer exposure. An easy-to-use mobile app leaves no room for ambiguity, providing reliable data in just a matter of seconds.

TactiScan has an extremely high measurement accuracy from a low drug concentration and the user interface is significantly more functional than in the products presently used in fieldwork. The device currently detects all common street drugs and blends. New analog and "designer drugs" can be added to the scanning library before they become widespread.

As the TactiScan is re-usable and less expensive than its alternatives, it is affordable for any sized police department. The acquired test results are entirely secure and logged instantly for record-keeping, and can be examined only by necessary officials in local police departments.



## Dimensions

80 x 80 x 28 mm | 157 g  
3.15 x 3.15 x 1.0 inch | 0.35 lbs

## TECHNOLOGY

### Newest miniaturized Infrared Technology

The core of the TactiScan narcotics scanner is a Spectral Engines' Near Infrared (NIR) spectral sensing module combined with mobile and server connectivity to enable fast mass data management.

NIR-spectrometers are widely used in many fields to measure material content and have a proven track record in getting highly accurate measurement data in laboratory conditions. TactiScan brings narcotic screening from the laboratories to the field in a cost-effective, portable platform.

Optical reading requires no sample preparation and does not alter the sample in any way, preserving even small sample amounts and reducing the risk for unnecessary exposure.

	Tacti Scan	Test Kits	Raman devices
Scans through bags	x		x
No need for sample preparation	x		x
Works for dark samples (i.e. heroin)	x	x	
Does not destroy the sample	x		x
No need for chemical reagents	x		
Fast analysis time	x		
Low-cost analysis	x	x	
Eco-friendly and safe	x		

In some cases Raman devices need sample preparation, i.e. when dealing with heroin. This increases the risk of sample contamination and unnecessary officer exposure.



## IDENTIFICATION PROCESS

Tactiscan enables officers to identify unknown substances through plastic bags without contamination.

For the first time, the use of Tactiscan ensures the occupational safety of officers when identifying drugs and the entire identification process is digitally documented.

STEP 1: The officer connects the TactiScan to his cell phone via Bluetooth.

STEP 2: The substance found is placed in the plastic bag on the device, a spectral scan is then performed which maps the chemical composition of the substance.

STEP 3: The data is transmitted to a secure server where algorithms analyze the measurement data, and the substance is determined.

STEP 4: A notification of the result is immediately shown on the display of the cell phone.

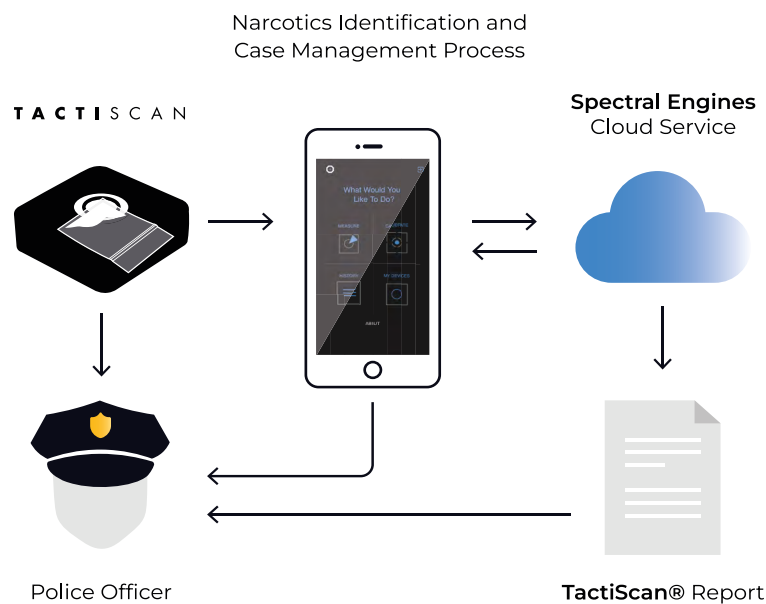
STEP 5: A report summarizing the details of the reading is also automatically generated and can be viewed by the officer on the web portal. This report can be attached to the case files and serve as a basis for decisions on how to proceed.

## TACTISCANSERVICE

Services included in the service package:

- TactiScan loaner device for service or in case of failure
- Access to the models BtM, cannabis, hashish, tablets (further models are available)
- Quarterly recording of substances
- Expansion and provision of models
- Database expansion
- 1 x annual check and service of the device
- incl. coordination and organization per maintenance, shipping (incl. shipping costs)
- incl. visual inspection, hardware and software check, disk check, sensor check, white reference check

\* subject to charge





## TACTILAB

The compact and versatile reference scanner system for narcotics was specially developed for law enforcement agencies and forensic laboratories for fast, accurate and reliable acquisition and digitization of measurement data.

Using a range of narcotics sensors supported by machine learning, the TactiLab enables the collection of representative laboratory data from illicit drugs and delivers it in a cost-effective, portable platform.

The production of illicit drugs in Europe has increased and become more diverse. Precursors for heroin, cocaine, amphetamines and other drugs are increasingly being imported into Europe and processed in drug laboratories<sup>1</sup>. These local drug mixtures and variants can be added to the scanning library and immediately transferred to all handheld devices used by the police, customs and judiciary in the field.

<sup>1</sup> European Drug Report 2020, EMCDDA



## Operation

The system can be easily operated by quickly trained forensic personnel to collect a reference library of large quantities of drugs in a quality assurance laboratory. Our solution enables data acquisition with a statistical distribution of spectra, without operator error and it runs without continuous monitoring.

## Components

- TactiLab
- Scanning software
- White references for calibration

## Dimensions

330 x 200 x 60 mm | 3 kg  
13 x 7.9 x 2.4 inches | 6.7 pounds

## COMPANY

We are an international IT company specializing in MEMS-based near-infrared spectral measurements. Spectral Engines is part of the Nynomic Group and combines the best of both worlds: the dynamism of a young company with the security of an established technology group behind it.



### Safety

No officer exposure, no sample destruction, no mistakes



### Efficiency

No sample preparation, rapid results, unlimited tests with one device



### Accuracy

High measurement accuracy from a low drug concentration