



# DE-tector

- Narcotics & Explosives Detector

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The new Bruker DE-tector is the latest innovation in trace narcotics and explosives detection. It is the first table top device with a combined non-radioactive ionisation source and a unique third generation twin tube IMS design.

DE-tector has been designed and built to meet the needs of the market, combat current and emerging threats; whilst maintaining the high quality and reliability expected of Bruker products at a competitive price.

The innovative twin tube system enables simultaneous narcotics and explosives detection and does not split the sample meaning no dilution and greater sensitivity. DE-tector has been designed with the operator in mind and is simple to use and maintain with low through life costs.



# Why Choose the New Bruker DE-tector for Trace Detection and Identification?

DE-tector is the first table top device with a combined non-radioactive photoionisation source and a unique third generation twin tube IMS design.

Unambiguous displays and controls mean that DE-tector can be used after minimal training. Displays can be limited to traffic light indicators or opened up to a full scientific view.

The instrument can be operated at three levels – user, power user and administrator. Functionality can be tailored by the administrator to best fit the scenario and the operator.

The new smart algorithms enhance the signal to noise ratio and the software profiles all of the crucial peak factors. As such, false alarms are almost zero, and detection rates significantly increased.

## System components and accessories



### Non-Radioactive Source

The Non-Rad source facilitates ease of transport and there is no need for special Rad training, wipe tests and protection measures.

### Integrated Printer

A built in printer produces on demand documentation of results in a well accepted pdf report format.

### Main Operator Interface – Touchscreen Operation

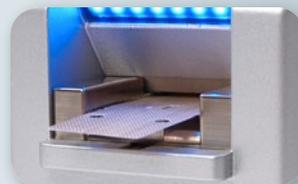
The operator interface is a built in touchscreen with traffic light inspired software that is easy to use and requires minimal training. Displays, commands and functions are clear, simple, comprehensive and unambiguous. A version with an integrated notebook computer is available.

### Twin-Tube Detection

This innovative design provides the most accurate and reliable detection results available from an IMS instrument.

### Smart Inlet

Intuitive guidance for inserting and removing a sample.



### Long Life Consumables

A consumable concept based on keeping through life costs to the absolute minimum and instrument availability at the highest level. Consumables can be easily and quickly exchanged by the operator.

### Standard Accessories

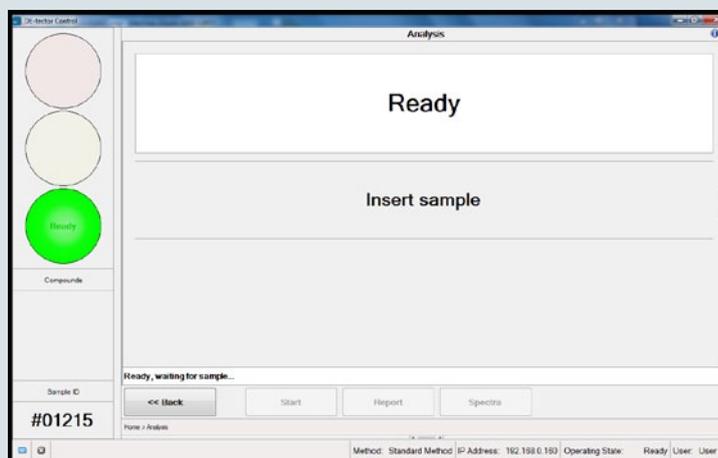
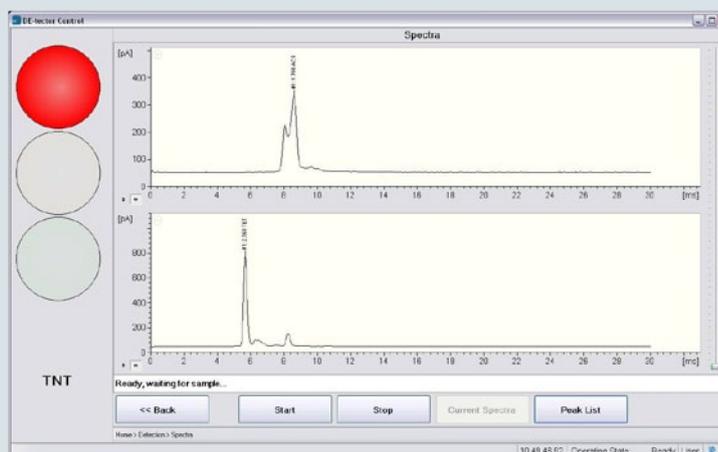
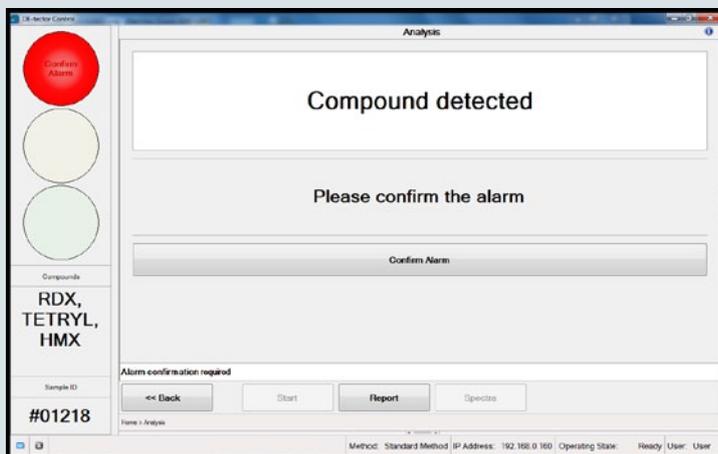
DE-tector is supplied with a sampling wand and Teflon enhanced sample strips. An optional specially designed trolley and transport case are also available.



## ● Control Software

The system control and operator display is facilitated by an integrated touch screen computer. Operating modes are set by an Administrative User who can configure the display to meet local requirements. Screen options range from operating with a standard traffic light display (Ready/ In Use/ Substance Detected), through to an IMS spectra series data display. The Administrative User can also set the display of substances detected to show either the actual material (for example, TNT), or a phrase more suited to local protocols (for example, 'Substance Detected' or 'ALARM; Call Supervisor').

### Operator Displays



The Bruker DE-tecton mission

# SECURITY CHECK



## Key Features

- Non-radioactive IMS source
- Simultaneous detection of trace Narcotics and Explosives
- Minimised false alarm rate
- Low cost of ownership
- Flexible multi-level software concept

## Main applications

- Airports
- Customs
- Police
- Prisons and Remand Centres
- Critical Infrastructure Protection
- Security Checkpoints

# Technical Specifications

## Type of instrument

Trace Explosives / Trace Narcotics IMS

## Technology Type of instrument

Ion Mobility Spectrometry

Twin-Tube

Open IMS

## Ionisation source

non-radioactive photoionisation

## Detection performance

Military Explosives

Home Made Explosives

Taggants

Standard Narcotics

Precursors

## Weight

< 18 kg

## Size

513 x 435 x 380 mm

## Temperature range / humidity

Storage: -20°C to +60°C

Operating: 0 to +45°C

5 - 95% rel. humidity, non condensing

## Power requirements

100-240 V AC, 47 – 63 Hz

max. 400 W

UPS Option available

## Analysis time

< 7 - 10 seconds for explosives

< 10 - 15 second for narcotics

## Warm-up time

< 30 min

## Sampling method

Swab

## Data system

10.4" XGA LED Multi-Touch display

Türkiye Distribütörü



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