



Explosives Trace Detection

● Explosives Threat Mitigation: Bruker **RoadRunner**

Choose Innovation – Choose Bruker

Bruker is recognised as the leading authority on the use of detection and identification technologies to mitigate the threat from the accidental or deliberate release of toxic gases, explosives and radioactive materials that could kill and injure civilians.

We offer the world's most comprehensive range of threat detection and identification solutions and can help you to assess how these can be best employed to protect people and property.

We develop, manufacture and supply technology worldwide for a range of customers and end users that need to protect people and property.

These include, but are not limited to governments, commercial enterprises and multi-national corporations who need to protect their employees and clients from the ever-increasing threat from terrorism.

Bruker is strongly committed to meeting its customers' needs by continuing to revolutionise the design, manufacture and distribution of detection tools based on our core technologies; by providing solutions that are regarded as the 'Gold Standard' by threat mitigation experts.



Explosives Trace Detection: RoadRunner

The Bruker RoadRunner is a battery-powered, hand-held, trace explosives detector that is both lightweight and portable. To maximise user convenience the system operates from rechargeable batteries and to further extend its duration in the field, these batteries are 'hot-swappable'.

The RoadRunner operates in two modes. A "sniffer" mode draws in vapours from volatile explosives and taggants and provides results in just a few seconds. To detect the presence of non-volatile explosive compounds, or to check personal property, the product integrates the same industry-standard swab-sampling system that is used in the Bruker DE-tector desktop trace explosives detector.

In addition to the dual-role explosives detection capability, RoadRunner also incorporates narcotics detection as standard. Typical applications of RoadRunner include environments such as airport security, building access control, customs facilities and prisons/remand centres.

Why specify RoadRunner?

- Industry-standard IMS detection technology
Time proven technology; the de-facto standard
- Detects trace explosives and trace narcotics
Meets your needs in a single instrument
- Hand-held, portable trace detection
In a go-anywhere battery-powered package
- Non-radioactive HEPI source
Patented source reduces the compliance burden
- Patented CHIRP-IMS signal processing algorithm
Provides sensitivity of a benchtop detector
- Automatic continuous self-calibration
Optimises each measurement automatically
- Operates in sniff or swab modes
Best configuration for different sample types
- Re-useable sampling swabs
Reduce your operating costs / cost per test
- Uses the Bruker acclaimed "Traffic Light" software
Simplifies operation in a pressured environment
- CE Marked
Conforms to harmonised CE standards



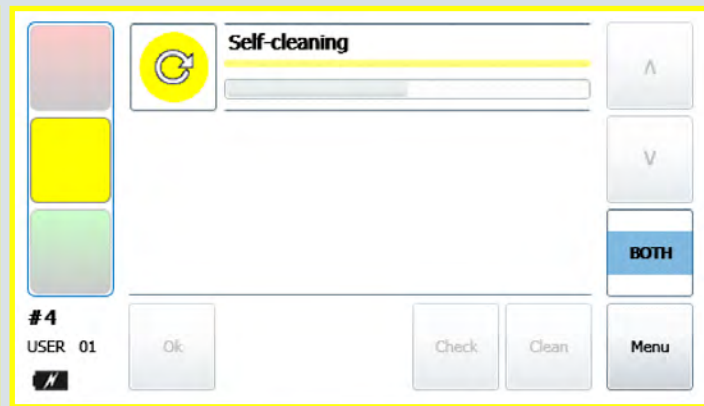
The Bruker RoadRunner is the first hand-held explosives trace detection instrument to offer the same outstanding detection performance as state-of-the-art benchtop ETD instruments - thanks to the incorporation of patented CHIRP-IMS technology and other Bruker innovations.

RoadRunner Software Overview

The Bruker RoadRunner software uses our acclaimed traffic light concept to simplify the display of the instrument status. This eases the burden on operators who often have to work in a pressured environment.

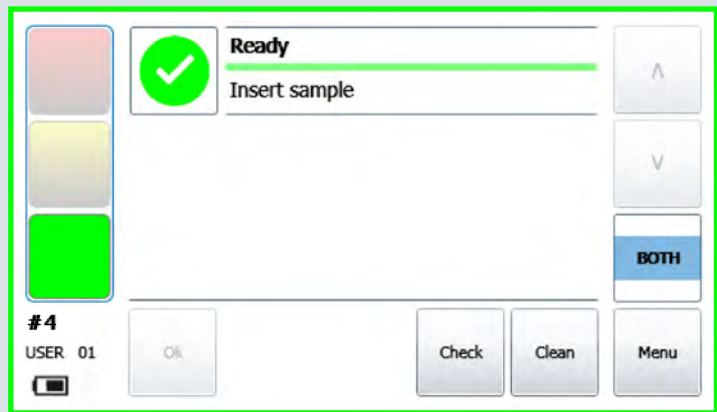
5. Self-cleaning

At the end of each measurement cycle the instrument automatically switches to a self-cleaning mode. This fully-automatic feature ensures that RoadRunner is always operating at its maximum sensitivity. In this way, it continues to offer you the same detection performance as benchtop ETD instruments.



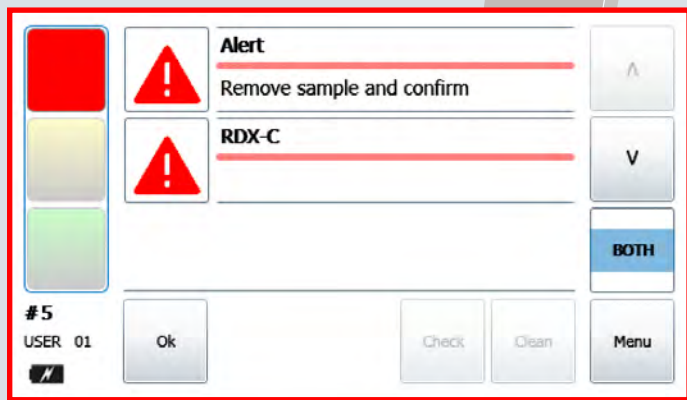
1. Start

A green traffic light symbol to the left of the display is linked to a green icon showing a checkmark. This shows the instrument is ready to use. A plain text statement confirms the instrument ready status.



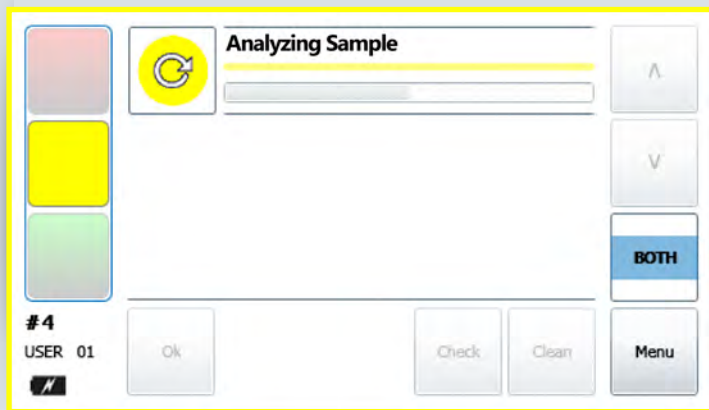
4. Detection

When an illicit material has been detected, the traffic light symbol changes to red and a red alert icon is shown. At the same time, the name of the detected substance is stated unambiguously; so that the user can take action.



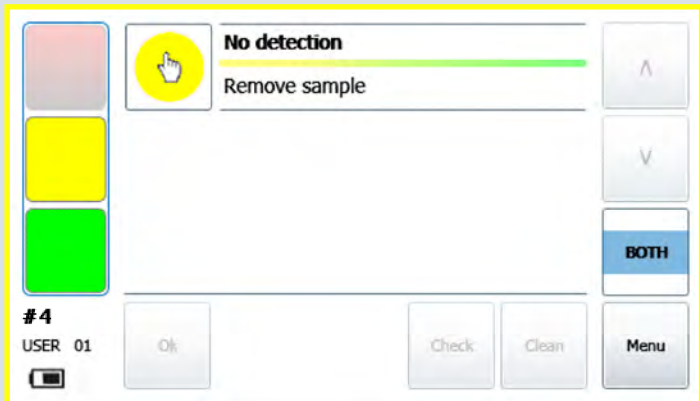
2. Measurement

In the few seconds it takes RoadRunner to make the measurement, a yellow traffic light symbol and a yellow icon containing a rotating arrow are shown. A plain text message confirms the measurement is proceeding.



3. No Detection

In the absence of any detected substances, a yellow traffic light is displayed along with a yellow icon with a hand symbol. This shows that the sample swab should be removed (in the particulate detection mode). The clear text message confirms that illicit substances have not been detected.





RoadRunner: At a Glance

SUMMARY SPECIFICATIONS

Detector Type:	Hand-held detector for trace explosives / narcotics
Detector technology:	IMS
IMS Source:	Non-radioactive HEPI Source
Sample Type:	Vapour and Trace Particulates
Vapour Sample:	Detection initiated by a trigger
Swab Samples:	Automatic on swab insertion
Signal Processing:	Patented CHIRP-IMS algorithm
Software Type:	Traffic Light User Interface
Software Operation:	Touch Screen, 4.3" LCD panel
Printer:	External, non-integrated

Size:	H = 330 x W = 340 x D = 130 mm
Weight:	3.5kg including battery
Battery:	Li-Ion rechargeable, hot-swappable
Run Time:	~3.5h @ 20°C
Power Inlet:	19V DC (±10%) 90W max.
Data (LAN):	10/100 Base-T, RJ45
Data (USB):	USB 2.0, Type A.

Current specifications of the Bruker RoadRunner can be found in the Product Specification Sheet (PSS), a copy of which is available on request.

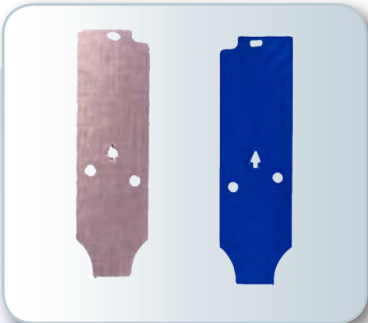
COMPONENTS INCLUDED WITH ALL SYSTEMS

- Pack of 120 sample collectors (swabs)
- Two rechargeable Li-Ion batteries
- Battery charger
- 19V DC power supply
- Confidence Sample
- List of substances in Explosives library
- List of substances in Narcotics library
- Operator Manual

OPTIONAL ACCESSORIES

- Bruker service contracts
- Off-line data analysis packages
- Sampling wand
- Telescopic extension to sampling wand
- Nitrile gloves (pack of 100)

✉ www.bruker-etd.com
✉ detection@bruker.com



Global Resources – Local Focus



Bruker has support centres of technical expertise in every major area of the world providing sales, applications and engineering support for our complete product range. With more than 6,000 employees at 90 locations worldwide you can be confident that the support team fronts a uniquely integrated global resource. Research and development specialists, applications professionals and highly trained engineers in every field are dedicated to your investment in our equipment.

Superior Detector Performance

For highly sensitive detection, identification and quantification of chemical, biological, explosive and radiation threats. Superior performance and high reliability comes as standard.

Applications Support

Systems are configured to meet your needs and result from our detailed evaluation of your requirements.

Standards & Compliance

All our systems are manufactured in ISO9001 compliant factories; so you can be assured of superior quality and performance.

Software & Data Systems

Designed to industry standards on the Microsoft® platform, our software can be integrated with your security management software.

Training

User Training and User-Level Maintenance is part of our standard Scope of Supply. Our goal is simple; to minimise your cost of ownership.

Low Maintenance

All our systems are designed for extended maintenance periods and reduce the through-life-costs of your investment.



● Bruker Detection

Division of
Bruker Daltonik GmbH

Leipzig · Germany
Phone +49 (341) 2431-30
detection@bruker.com

www.bruker-etd.com

Bruker Detection

Division of
Bruker Daltonics Ltd.

Coventry · United Kingdom
Phone +44 (2476) 855-200
detection@bruker.com

Bruker Detection Corp.

40 Manning Road
Manning Park

Billerica, MA · USA
Phone +1 (978) 663-3660
detection@bruker.com

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