



## 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.



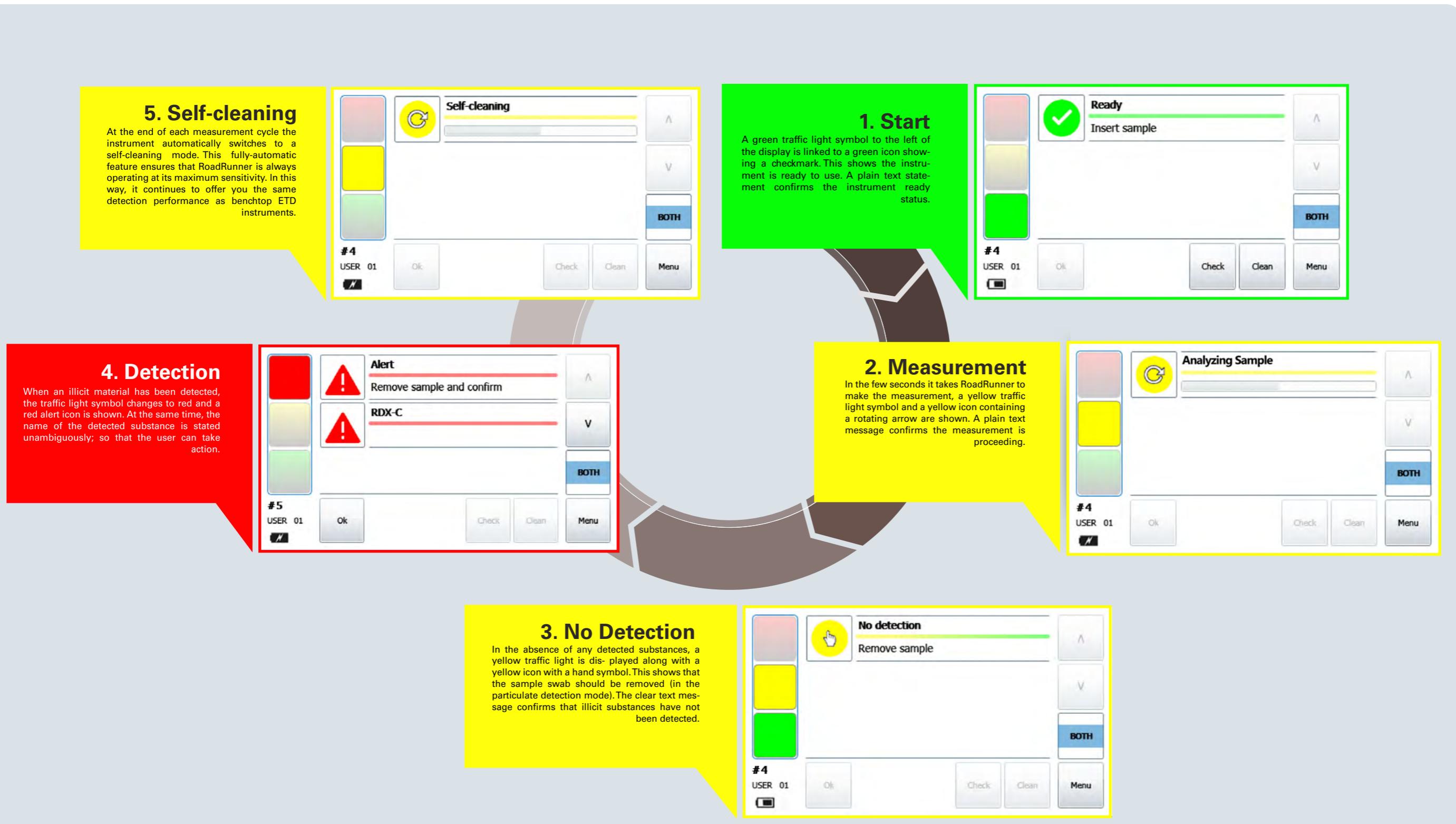
### Why specify RoadRunner?

- 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*

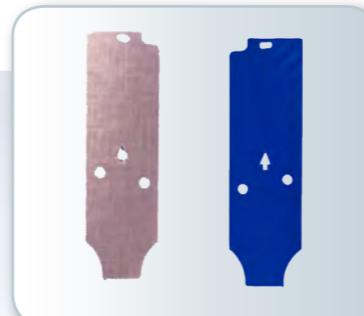
The Bruker RoadRunner is the first hand-held explosives trace detection instrument to offer the same outstanding detection performance as state-of-the-art benchtop ETD instruments - thanks to the incorporation of patented CHIRP-IMS technology and other Bruker innovations.

# 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.



# 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)

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[detection@bruker.com](mailto: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.



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