



## ● **Mobile-IR** Portable FT-IR Spectrometer

Each chemical substance has its own infrared signature, just like a finger print. With the new Mobile-IR, it is easy to rapidly identify unknown chemicals, even under rough conditions.

- Identification of unknown chemical substances
- Easy to use
- No sample preparation
- Results in seconds
- Rugged design
- Wireless operation

### **Material Identification Anywhere!**

The Mobile-IR is a self-contained, rugged mobile infrared spectrometer for identification of unknown substances. Unlike other portable instruments, Bruker's Mobile-IR offers benchtop FT-IR performance, providing wider spectral coverage and higher spectral resolution. The Mobile-IR is available as a powders and liquids analyzer or a dedicated liquid analyzer. Its embedded computer with large touchscreen display makes operation easy, even under extreme conditions. OPUS/Mentor software guides the users in every step of the analysis, and rapidly identifies the unknowns from the built-in library. Additional libraries can easily be added.



Industrial and environmental protection.



Crime scene investigation, forensics and homeland defense.



HAZMAT and Emergency response

## FT-IR Spectroscopy

Each chemical substance has its own infrared signature, just like a finger print. Fourier Transform Infrared (FT-IR) Spectroscopy is widely used for the analysis of both organic and inorganic materials. This non-destructive technique requires only a small amount of sample for analysis. Unknown substance may be identified by comparison with library reference spectra. Moreover, the ATR (attenuated total reflection) sampling technique eliminates sample preparation, offers easy and fast sampling of liquids and solids.

Bruker is the leading manufacturer and worldwide supplier of FT-IR/ NIR and Raman spectrometers. It offers the world's most comprehensive FTIR product line that includes routine to research grade FT-IR spectrometers; from the world's smallest to the highest resolution spectrometers for various quality control and research applications.

## Specifications

Sampling	Easy to clean single reflection diamond ATR. Alternative configuration: Liquid flow through cell.
Environmental Features	The system complies IP 67 standards to allow it to pass through the decon line.
Operating Range	Operating temperature ranges from -5 to 40°C. Humidity ranges from 0 to 100%.
PC/Controller	Embedded PC system with touchscreen (finger or stylus control) Optional external PC with Ethernet or wireless connection. USB support for external data storage. Optional touch pad and keyboard (USB).
User Interface	Bruker OPUS/Mentor software, with easy and intuitive user interface guides the operator through all the steps of an analysis.
Wireless capability	Up to 54 Mbps, high-speed transfer rate with automatic fallback, 802.11g compliant.
Power	Internal battery, four hours of portable power operation; extended mobile operation from vehicle 12-volt source.
Charge power	100 - 240VCA, 50 - 60Hz, 20 W; optional 12V, 24V
Spectral range	500 - 6000cm <sup>-1</sup>
Optical resolution	1cm <sup>-1</sup>
Weight	13kg (28 lbs)
Dimensions	41(w) x 34(d) x 18(h) cm (16"x12"x7")

## Bruker Optik ist ISO 9001 zertifiziert.

Das Mobile-IR ist durch eines bzw. mehrere der folgenden Patente geschützt: US 5,499,095; US 5,923,422; DE 19940981; Weitere US-Patente und internationale Patente sind angemeldet.

Laserklasse 1

Die Bruker Optik GmbH entwickelt ihre Produkte ständig weiter und behält sich das Recht vor, Spezifikationen ohne vorherige Ankündigung zu ändern.

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Türkiye Distribütörü



Kızılırmak Mahallesi Ufuk Üniversitesi Caddesi  
1445. Sokak No 2 The Paragon Tower Kat:17 - D87  
Çukurambar 06510 Ankara - Türkiye  
T. +90 312 440 68 26 F. +90 312 440 67 23  
utilis.com.tr | info@utilis.com.tr

## Bruker Detection

Division of  
Bruker Daltonik GmbH

Leipzig · Germany  
Phone +49 (341) 2431-30  
Fax +49 (341) 2431-404  
sales@bdal.de

[www.bruker.com/cbrne](http://www.bruker.com/cbrne)

## Bruker Detection

Division of  
Bruker Daltonics Ltd.

Coventry · United Kingdom  
Phone +44 (2476) 855-200  
Fax +44 (2476) 465-317  
sales@daltonics.bruker.co.uk

## Bruker Detection Corp.

Billerica, MA · USA  
Phone +1 (978) 663-3660  
Fax +1 (978) 667-5993  
ms-sales@bdal.com