



• Drug Identification with FTIR

The ALPHA II Drug Identification Kit quickly and reliably identifies legal and illegal substances using infrared spectroscopy, and is ideal for law enforcement, security and safety organizations. Save time and money by conducting your own analysis in-house or on the road.

- Unambiguous identification, regardless of visual appearance
- Fast analysis time - less than a minute
- No more waiting for results from the lab
- Reliable, accurate results
- Easy to use - no specialist skills required
- No sample preparation
- No chemicals or solvents needed

Infrared spectroscopy (FTIR) is ideal for identifying unknown substances. The technique is fast, easy and versatile, and can analyze solids, liquids, pastes and gases. Unknown samples can even be identified from mixtures, which is vital when sampling drugs that may have impurities, fillers or cutting agents.

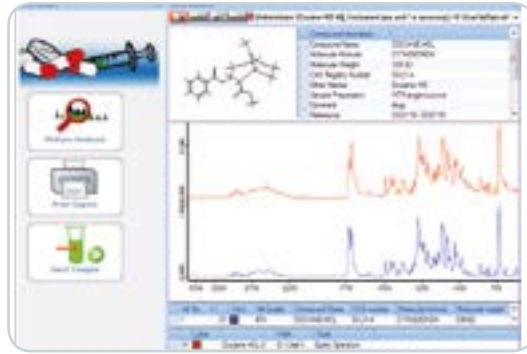
Irrespective of visual appearance or form, substances are quickly identified from their unique infrared spectrum, which is automatically matched to a database, just like identifying a human fingerprint. Each analysis takes less than a minute, and requires no sample preparation or additional chemicals or consumables.

Due to its compact size and durable components the ALPHA II Drug Identification Kit is not only suitable for stationary use but also can be moved in a carrying case and allows the use in mobile laboratories.

The ALPHA II has been accredited by CAST (Centre for Applied Science and Technology in the UK) for the identification of Ketamine and Mephedrone.



Detail of the ALPHA II's diamond ATR.



Intuitive software with a clear presentation of the result.

Easy Identification Process

Simple sampling and the intuitive design of the software user interface allows operation of the ALPHA II by personnel without IR-spectroscopic knowledge.

Guided by the software the user places the sample on the measurement interface and performs the IR-measurement. The resulting spectrum is automatically searched in extensive spectral libraries containing drugs and also all types of materials which might be mistaken as drugs.

A powerful mixture analysis allows to determine the individual components e.g. of laced drugs. Finally the result of the analysis is presented in a meaningful report (pdf).

Drug Library Database

A crucial factor for successfully identifying drug substances is the availability of comprehensive and up-to-date spectral databases.

To be able to always identify new drugs, new psychoactive substances (NPS) and legal highs which enter the drug market the system can be upgraded by a dedicated spectral library from TICTAC Communications Ltd. This library constantly is expanded by new drugs entering the market and regular updates are released.

The ALPHA II Drug Identification Kit also allows to create and to use customized libraries.



ALPHA II Drug Identification Kit

- Robust and portable ALPHA II FTIR spectrometer system with ATR measurement interface
- Easy to clean sampling area
- Small footprint: 22x30 cm
- Weight: about 7 kg
- Intuitive software user interface with dedicated workflow for drug ID
- Extensive spectral libraries containing drugs and materials which might be mistaken as drugs
- Option to create own spectra libraries
- Continuous monitoring of instrument performance
- Automated instrument tests
- Carrying case for ALPHA II FTIR spectrometer
- Notebook with preinstalled software



Options

- TICTAC ATR-FTIR Drug Library including spectra from new drugs, new psychoactive substances (NPS) and legal highs. The library constantly is expanded by new drugs entering the market and regularly updates of the library are released.
- Accessories for mobile operation, including wireless adapter, attachable tablet PC and battery pack

Bruker Optics is ISO 9001 and ISO 13485 certified.

Laser class 1 product.

Covered by one or more of the following patents: DE102004025448; DE19940981. Additional patents pending.

www.bruker.com/optics

● **Bruker Optics Inc.**

Billerica, MA · USA
Phone +1 (978) 439-9899
Fax +1 (978) 663-9177
info.bopt.us@bruker.com

Bruker Optik GmbH

Ettlingen · Germany
Phone +49 (7243) 504-2000
Fax +49 (7243) 504-2050
info.bopt.de@bruker.com

Bruker Shanghai Ltd.

Shanghai · China
Phone +86 21 51720-890
Fax +86 21 51720-899
info.bopt.cn@bruker.com