ALPHA-II/DRUG

Drug Identifier (Drug-ID) for pure and laced drugs

The illegal market for drugs is steadily growing, and so is the need for an on the spot solution for drug analysis.

Innovation with Integrity

Fig. 1
FT-IR spectrometer ALPHA II with touch-PC. Samples are directly pressed onto the ATR crystal.

The advantage of FT-IR in drug analysis:

Infrared spectroscopy (FT-IR) is ideal to identify unknown and potentially harmful substances. The technique is super easy and quickly analyzes solids, powders, pills, liquids and even gases. Additionally, mixtures are readily identified, which is vital for the analysis of drugs that may contain impurities, fillers or cutting agents.

ATR (attenuated total reflectance) adds further value for drug analyses, since it's easy to apply and offers extremely convenient sample handling.

For experts, professionals and beginners:

The ALPHA II is the foundation for this straightforward approach to drug analysis and comes with an integrated touch-PC powered by a revolutionary analytical software: OPUS-TOUCH.

This eliminates the need for an additional laptop or PC, makes the system incredibly compact, more robust and even easier to use. The smart touch workflows swiftly guide you through the analytical process, while you can always rely on the interactive help menu.

Use it in mobile labs where space is precious and move it quickly between application sites. With the ALPHA II your lab can be anywhere - even in the back of your car.

What Drug-ID offers:

It's an agile plug and play solution for the analysis of pure and laced drugs, that is not only cost-efficient and user friendly but also absolutely reliable.

- Safe and accurate identifications
- Fast analysis times - less than a minute
- Super easy operation - no expert skills required
- IP65 certified touch-PC with dedicated software
- No more waiting for lab results
- No sample preparation required
- No consumables, chemicals or solvents

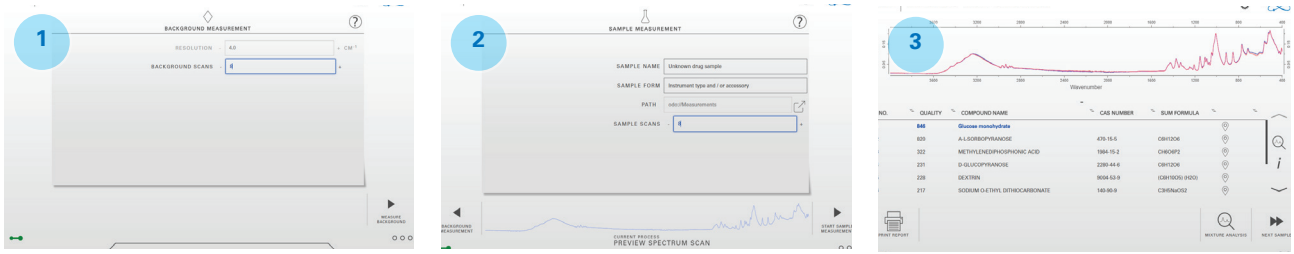

Fig. 2
Easy as 1-2-3. Start with the background (1), take a quick look at the preview (2), and begin the analysis to get clear results in less than a minute (3).

How does Drug-ID work?

From the start, we built the ALPHA II Drug Analyzer as a simple plug & play system. This way we make smooth and precise drug analyses available to everyone.

To analyze any suspected drug sample, simply chose the identification workflow and follow the instructions displayed on screen. **That's it.**

The resulting spectrum is immediately used to search the extensive spectral libraries (included), containing drugs and all types of materials which might easily be mistaken as drugs without proper chemical analysis.

Clear answers and quick reporting

The analysis result is displayed clear and plain (Fig. 2) either directly on screen or as a meaningful, printable report (pdf). Each measurement and its results are saved into a single file that can be reviewed later if need be.

A solid solution to mixture analysis

(Street) drugs rarely consist of a single, pure component. Often, they are laced or mixed with other substances to enhance potency or diluted to increase selling margin.

Drug-ID has no problem in analyzing even complex mixtures with lowly concentrated ingredients and yields comprehensible answers to more illusive problems.

What are the benefits of spectral databases?

A crucial factor for a successful identification of drugs is the availability of comprehensive and up-to-date spectral databases, since they empower you to identify and characterize unknown materials in seconds. Drug-ID includes spectral libraries to equip you with the necessary tools to immediately start you analysis.

If you want to identify the most recent drugs, psychoactive substances (NPS) and legal highs, the system can be upgraded with a constantly updated, dedicated spectral library from TICTAC Communications Ltd. To create your own methods and libraries Drug-ID gives you an additional toolset that is comprehensible and suited for beginners. Adapt your analysis to the drugs you encounter and be perfectly prepared for unexpected situations.

Includes:
- ALPHA II spectrometer with diamond ATR module
- CS86-A+ integrated touch-PC
- O/TOUCH dedicated touch software
- W303/D-U for operation in high-humidity environments
- S202/DII protective trolley for ALPHA II & touch-PC
- 1025051 ATR-FT-IR-library for forensics
- BPAD BRUKER ATR-FT-IR-library for polymers
- OPUS/IR additional workstation license
- OPUS/SEARCH for unlimited search functionality
- Set of tools and desiccant

Recommendation:
- B-TICTAC ATR-FT-IR-library for new drugs, new psychoactive substances (NPS) and legal highs.
- C295-W/D WLAN-Adaptation; for wireless operation
- Service contracts are available
- Installation by a qualified service engineer

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