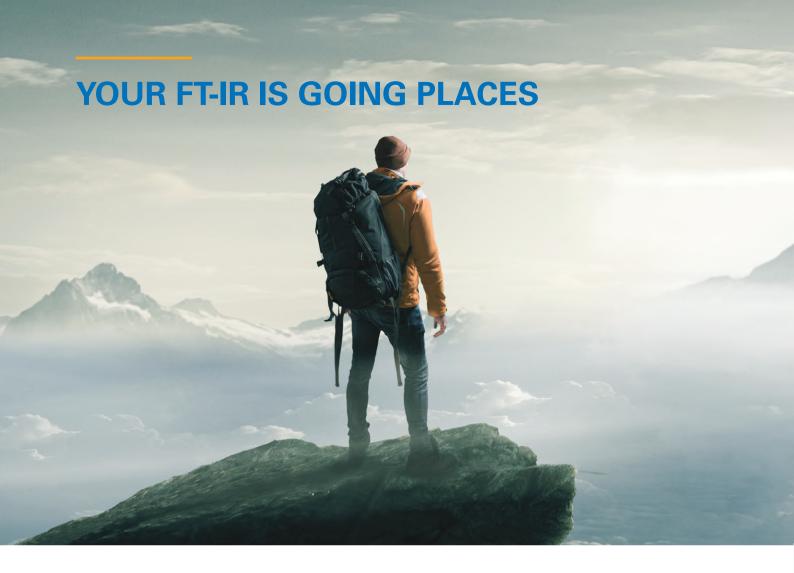




MOBILE FT-IR SPECTROMETER

MOBILE-IR II

Bringing the lab to the field



What is the MOBILE-IR II?

A portable FT-IR spectrometer with true laboratory performance. You never have to sacrifice performance or spectral quality for mobility and reliability when you are on the road with MOBILE-IR II.

When to use the MOBILE-IR II?

Often it is more convenient and time-saving to take the analyzer with you to the field instead of sending samples and waiting for a lab result. This is exactly when MOBILE-IR II will be your best friend, simplifying your daily routine.

Who should use the MOBILE-IR II?

For anyone who is hands-on with the application, be it routineers, researchers, first responders, or law enforcement. Any application that has an on-site component can be "mobilized" and made more productive by MOBILE-IR II.



This defines the MOBILE-IR II:

- World's only portable FT-IR spectrometer with true lab-grade performance
- Rugged build (IP65) that withstands harsh environmental conditions
- Highest engineering quality and up to 10 years component warranty



As simple as the ABC: our measurement workflows



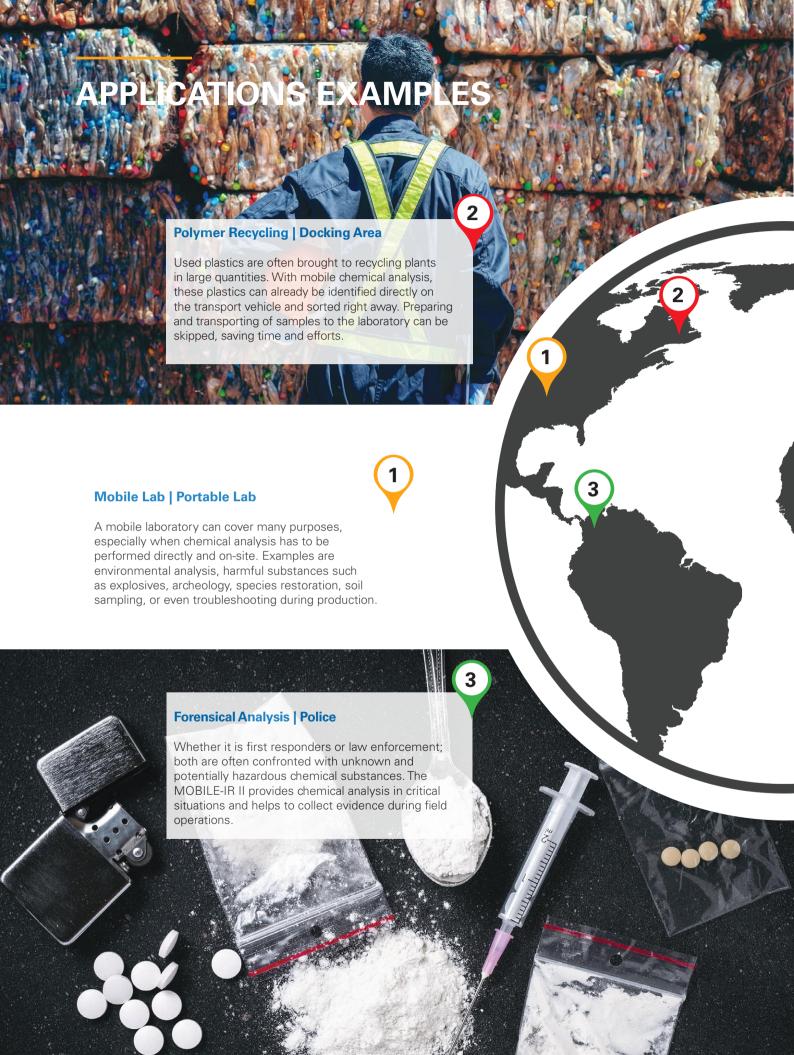
OPUS TOUCH clearly communicates what is going on with big, easily readable text and a clean interface.



Preview spectra help optimize your experiments while the "?"-icon provides interactive help.



Ideal for beginners and non-experts: results in OPUS TOUCH are presented in a very comprehensible way.





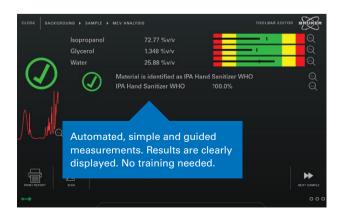


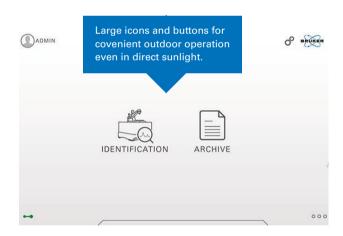
Smart interface and analytical freedom

OPUS TOUCH is a complete IR spectroscopy software based on a modern touch-centric user interface. Of course, the software can also be operated with mouse and keyboard.

But most importantly, it provides easy access to chemical analysis for newcomers and beginners, while offering full instrument control for FT-IR experts. It's designed for productivity and delivers what it promises:

Ambiguity no. Clarity yes.









Take everything with you.

The rugged MOBILE-IR II already withstands harsh environments, but its IP67 travel-case makes it even more robust, protecting it from waterjet stream and dust.

The included trolley also offers the necessary space for your spectrometer, its accessories and the IP65 protected tablet PC. Now, you can safely transport your FT-IR lab anywhere.

Rock & Roll.

MOBILE-IR II features our famous RockSolid™ cube corner interferometer. For more than a decade it has remained the benchmark for FT-IR measurements with utmost reliability.

Even when you are faced with difficult work environments it keeps its stability and delivers pure la-performance. And it does all that in a smart suitcase that rolls wherever you go.







like water vapor, can reduce spectral quality and the overall performance of the device.

The MOBILE-IR II's optics are tightly sealed and encased in a robust metal housing. This prevents environmental disturbances and protects the internal components.

dampening rubber feet are used to mitigate continuous and sudden vibrations.

Thus, the MOBILE-IR II yields precise and accurate results, even if it is placed in a mobile lab, next to a construction site or inside a lab full of clumsy students.

TE-MCT Detector

We wanted to give you more power for your applications. The thermoelectrically cooled (TE-)MCT detector not only provides exceptional stability, but also boosts measurements speed and signal to noise.



Data Safety and Transfer



Many users consider the security and integrity of their IR data as paramount. That's why the MOBILE-IR II offers all standard connectivity options, like LIMS or MES via MS SQL or cloud services connectivity.



BE MOBILE. STAY MOBILE.

A device as flexible and portable as the MOBILE-IR II needs an optimal support network. Bruker services extend globally making sure your service and validation needs are adressed all over the world.



Technical Data	
Sample Interface	Diamond-ATR interface, approx. 1.2 mm x 1.2 mm
Heating Interface	Software controlled heating of sampling area up to 80°C
Sealing and Resilience	IP65 standard, metal housing, vibration damped, resistant to high-humidity (≤80% relative humidity)
Detector and Interferometer	TE-MCT detector (cryogen-free); RockSolid™ wear-free interferometer
Spectral Resolution and Spectral Range	Standard: 2 cm ⁻¹ (optional: 0.8 cm ⁻¹); 6000 cm ⁻¹ – 670 cm ⁻¹
Wavenumber Accuracy	<0.05 cm ⁻¹ @ 1576 cm ⁻¹
Wavenumber Precision	<0.0005 cm ⁻¹ @ 1576 cm ⁻¹ (standard deviation of 10 repeated measurements in laboratory conditions)
Dimensions and Weight	21 cm x 33 cm x 20 cm (w x d x h); Approx. 10.5 kg



The MOBILE-IR II at a glance

- Lab-grade FT-IR performance
- Integrated battery
- Intuitive operating software
- Compact and ruggedized design
- IP65 protected spectrometer housing
- Ruggedized tablet (IP65 and MIL-STD 810G)
- Super-robust trolley (IP67)
- Wireless operation (Optional)

Bruker Optics GmbH & Co. KG

info.bopt.de@bruker.com

bruker.com

Bruker Optics is ISO 9001, ISO 13485, ISO 14001 and ISO 50001 certified.

Worldwide offices bruker.com/bopt-offices **Online information** bruker.com/MOBILE-IR



