Technical data

Analysis method	Near infrared spectroscopy
Measurement time	< 5 seconds per scan
Spectral range	1,000 – 1,900 nm
Spektrale Auflösung	10 nm
Wavelength accuracy	±1 nm (over the entire temperature range)
Wavelength reproducibility	±0,3 nm (over the entire temperature range)
Automatic recalibration/device test	integrated wavelength and white standard
Operating temperature	15 – 35 °C
Dimensions (H × W × D)	185 × 192 × 220 mm
Weight	2,95 kg
Interface	1 × USB 1.1 type B slave (control as peripheral device)
Interfaces / aiLINK	2 × USB 2.0 type A Host 2 × USB 3.0 type A Host WLAN 2,4 GHz / IEEE 802.11ac 1 × Gigabit Ethernet 1 × HDMI2.0 type A up to 4k/30Hz
Operating voltage	100-240 VAC / 50-60 Hz / 60 W
Software	QuickStep Apo-Ident
System requirements	Windows 10, Ubuntu 20.04

Scope of delivery

- Analysis system Apo-Ident 2 (consisting of hardware, software QuickStep Apo-Ident)
- Basic accessory set of Apo-Ident 2 includes:
  - 5 sample glasses
  - 1 transflectance insert for liquids and semi-solid preparations
  - 1 adapter ring
  - 1 standard white reference
  - 1 black reference
  - 1 safety cover
  - 1 Apo-Ident device documentation folder

Reference database

- solid
- semisolid/liquid
- ointments

compatible
with the Dr. Lennartz Laboratory Program for Pharmacies

hiperscan

apo-ident

HiperScan GmbH

HiperScan GmbH develops and markets the near-infrared spectrometer Apo-Ident. The system is used by more than 4,000 pharmacies in Germany. This makes HiperScan the market leader in this sector. Moreover, HiperScan is available to its customers as a reliable partner for laboratory and formulation requirements, and provides products and services.
HiperScan was founded in 2006 as a spin-off from the Dresden Fraunhofer Institute for Photonic Microsystems (IPMS). The scanning grating technology developed in IPMS forms the basis for the Apo-Ident analysis system. The second generation of the device is now available. Thanks to this cutting-edge technology, it is possible to transfer the benefits of NIR technology to new areas of application and to signifi-cantly reduce the effort and cost of testing starting materials in pharmacies. Today HiperScan stands for high-quality technologies and applications for substance analysis.

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Apo-Ident
The leader in the pharmaceutical market

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KNOW WHAT'S IN IT!

Raw material testing with Apo-Ident.

www.apo-ident.de

RAW MATERIAL TESTING

Fast, safe and easy with NIR technology

Pharmacies are beeing under a lot of pressure in terms of time and costs! It is not uncommon for staff to be occupied with compounding and laboratory work – which means they are not available for customer service. One reason for this is the demanding regulations for testing and documentation. For this reason, new and innovative technologies are increasingly being used for pharmaceutical raw material identification. Near infrared spectroscopy (NIRS) is particularly effective. This innovative technology is fast and highly reliable. It works with very small devices and can significantly relieve a pharmacy's workload. Hence: with a modern NIR device such as the Apo-Ident from HiperScan, you can reliably determine the raw materials in less than two minutes. Substances are exposed to light in the NIRS. The light penetrates deep into the sample and is reflected back. All the specific characteristics of the respective material are shown in the reflected light. This permits unambiguous identification of most of the raw materials used in formulations. This is ensured by the QuickStep Apo-Ident software integrated in the analysis system. It compares the recorded spectrum with the reference spectra from the database and displays the identification result.

IMPORTANT: The Apo-Ident system is the market leader in NIR spectrometers with a fully validated reference database and meets the requirements of pharmacopoeia monograph 2.2.40 NIR spectroscopy and 5.21 Chemometric methods for the evaluation of analytical data.

With 2.2.40 NIR spectroscopy, the pharmacopoeia requires continuous updating of the database in order to illustrate the batch-specific differences. This is essential in NIR spectroscopy. Only regular updating of current batches ensures the safe and reliable identification of raw materials. Apo-Ident meets these requirements and provides its customers with 4-6 updates of the reference database per year. The Apo-Ident system has a fully validated database. The substance is documented transparently in the validation report in a way that can be understood by the pharmacist:

- Calibration samples with batch number and manufacturer
- Validation samples with batch number and manufacturer
- Result of the validation with detection rate and specificity
- Real spectra from the field for optimisation and to demonstrate robustness
- Differentiation from similar and related substances

Consequently, all the requirements of the APD Resolution 2014 are met. More than 4,000 pharmacies in Germany are already using Apo-Ident! The second generation of the innovative system is now being made available, which is even more compact and powerful compared to its very successful predecessor.

All in all: With Apo-Ident, you can complete a laborious task in an instant! You save valuable time which you can use to devote yourself to other tasks and can plan the deployment of your employees in a much more relaxed way. At the same time, you ensure that your customers receive the desired formulations in the shortest possible time.

The benefits at a glance

- **Innovative raw material identification** used in compounding in accordance with Ph. Eur. 2.2.40 and §§ 6 and 11 ApBetrO*
- **More than 1,100 starting materials** can be tested – solid, semi-solid/liquid, ointments
- **Highly comprehensive and fully validated reference database** with regular updates
- **Continuous batch updating** in accordance with Ph. Eur. 2.2.40 NIR spectroscopy and 5.21 Chemometric methods
- **Non-contact testing - no cross-contamination** – no contamination of the original substance
- **Results at the touch of a button** – quick and easy in less than 2 minutes
- **Fully automatic documentation** in accordance with ApBetrO, including a report and a label for the standing container
- **Audit-proof** – more than 4,000 pages of written documented proof of validation
- **Self-inspection** – automatic internal referencing in the device

NEW for Apo-Ident 2

- **Stand-alone device:** Can also be used without external PC
- **Network-compatible** – LAN and WiFi for very flexible data processing
- **Intuitive user interface** – Batch, PZN, testing personnel details can also be entered via hand scanner
- **Smart aiLINK system** adjusts to the needs of the Apo-Ident user
- **Future-proof** – New functions will be added in the future with the Evolution Pack
- **Apo-Ident-App** for easier operation via mobile device in the future

* In Austria: completely validated in accordance with § 5 Pharmacopoeia Act 2012 and § 8 Pharmacy Operating Regulations 2005

TESTING WITH APO-IDENT

Raw material identification – simple, secure and completed in seconds

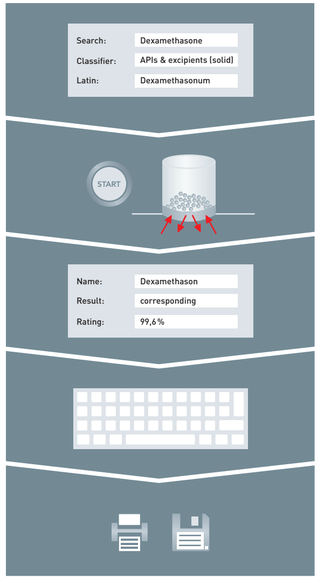
Apo-Ident was developed for the specific requirements of the pharmacy industry. Using this innovative near-infrared spectrometer, you can test most of your compounding materials. Simply press a button and the results are available within seconds.

In addition, you can now use Apo-Ident wirelessly without any problem, as the second generation of this unique NIR system has a LAN port and is WiFi-enabled

And even the future has been taken into consideration! The integrated "Evolution Pack" provides the basis for future online updates, additional technical features and easy operation via mobile devices. Thanks to the close cooperation with the Fraunhofer Institute and our own production and development, you also benefit from the highest quality standards!

RESULTS IN 5 SHORT STEPS

Test + report at the push of a button



1 Selection
Select the substance to be tested (it is compared with the entire category of substances)

2 Measurement
Fill the substance into the sample glass, place it on the measuring window and press the measurement button (sample is not changed by exposure to light)

3 Result display
After a few seconds, the measurement result is displayed on the screen

4 Measurement details
Enter the data for the test report

5 Report
Output, print and/or save an ApBetrO-compliant report