



## Technical details of Apo-Ident

- ✓ Validated library
- ✓ Simple user interface
- ✓ Automatic report creation
- ✓ Device-internal calibration
- ✓ Patented MEMS grating technology

| Technical details                         |                                                                                                                                                                                                                                                                |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spectral range                            | 1,000 - 1,900 nm                                                                                                                                                                                                                                               |
| Spectral resolution                       | 10 nm                                                                                                                                                                                                                                                          |
| Straylight                                | < 0.2 %                                                                                                                                                                                                                                                        |
| Measurement time                          | < 15 s per scan                                                                                                                                                                                                                                                |
| Detector                                  | InGaAs single detector, uncooled                                                                                                                                                                                                                               |
| Software                                  | QuickStep software for acquisition and visualisation of spectra; optional: platform-independent drivers and software development kit for integration into your own application (operating system: Windows 7 SP1, Windows 8.1, Windows 10, Linux (x86/x64/ARM)) |
| Storage temperature                       | -20 to 60 °C (non-condensing)                                                                                                                                                                                                                                  |
| Wavelength accuracy                       | ± 1 nm (in entire temperature range)                                                                                                                                                                                                                           |
| Wavelength reproducibility                | ± 0.3 nm (in entire temperature range)                                                                                                                                                                                                                         |
| Photometric reproducibility               | ± 0.15 % (average over 500 scans at 25 °C)                                                                                                                                                                                                                     |
| Photometric linearity deviation (max/RMS) | < 2 % / 1.5 %                                                                                                                                                                                                                                                  |
| Light source                              | Tungsten halogen lamp                                                                                                                                                                                                                                          |
| Probe/optical input                       | Diffuse reflection, 23 mm diam. (powder, scattering solid, with transmittance inset, liquids and pastes)                                                                                                                                                       |
| Thermal stabilisation                     | No                                                                                                                                                                                                                                                             |
| Dimensions                                | 203 x 279 x 219 mm <sup>3</sup>                                                                                                                                                                                                                                |
| Weight                                    | 5.2 kg                                                                                                                                                                                                                                                         |
| Interfaces                                | USB Typ B                                                                                                                                                                                                                                                      |
| Power supply                              | 100-240 V~/50/60 Hz/60 W                                                                                                                                                                                                                                       |
| Operating temperature                     | 15 to 35 °C                                                                                                                                                                                                                                                    |

### Scope of delivery

- ✓ Apo-Ident hardware
- ✓ QuickStep Apo-Ident software
- ✓ 5 sample jars, 1 transmittance inset for liquids, pastes and emulsions, 1 white reference, 1 black reference, 1 distance ring

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