Technical data

Software
WinASPECT® PLUS

**Software for PC control of the
SPECORD® PLUS family**

Basic Module

- Standard software for spectrometer control, result storage, result presentation
- Varied presentation options, individual selection of color schemes on the monitor, shifting, copying, overlay of spectra
- Comfortable data exchange with other Windows-based applications
- Use of databases for method and data management
- "Audit Trail" function for unbroken data records
- Comprehensive print functions
- Context-sensitive online help function
- Device Check

Included in Basic Module:

Module Quant

- Quant> Lab: determination of concentration by factor or calibration curve, various calibration models, measurement of check samples, statistical functions
- Quant> Routine: calibration and sample measurement in one step
  - Determination of concentration by factor or calibration curve (3 regression models)
  - Storage of methods (including sample table, measuring parameters and calibration)
  - Configuration of multiple batches
  - User-defined configuration of reports by user
  - Automatic save of raw and measuring data and export respectively
- Activation/Deactivation of standards and samples

Module Kinetics

- Linear Kinetics, statistical function

Module Data Handling

- Addition and subtraction of spectra, smooth function, calculation of derivative spectra, standardization, automatic or interactive peak search function

Module Bio

- Quantification of nucleic acids and proteins using pre-programmed methods (e.g. A260, A280, A260/280, Warburg- Christian formula, Scopes- formula and many more)
- Input and storage of user-defined formulae, various mathematical operations for up to 10 wavelengths

Included in Basic Module:

Module Color

- Color measurements in the spectral range 380 to 780 nm
- Calculation of color coordinates X, Y, Z, x, y, CIE Lab and CIE Luv using standard illuminants A, C and D 65; and the field of view 2° and 10°
- White/Yellow Index according to ASTM E313-67
- Color numbers for transparent solutions; Platinum cobalt to DIN ISO 6271, Iodine to DIN EN 1557, Gardner to DIN ISO 4630

Module Layer Thickness

- Calculation of a thin transparent layer in a thickness range from 1 µm to 200 µm.

Module Water Analysis

- Various pre-programmed calibrations for MERCK-water analysis kits

Analytical Quality Assurance (AQA)

- QC-Module for quality control (QC-sample, QC-standard, QC-blank)
- Reaction on exceeding of defined error limits possible
- User specific definition (pre-period, control period) of quality control (recovery- , mean- and standardized mean card)
- Survey of limits of detection and of quantification

Protocol

- Customer-specific configuration of report
- Complete documentation of data by means of the „Audit trail" function

Comprehensive method collection

- Life Science
- Environmental Analysis
- Food & Agriculture
- Medicine & Health Care
- Material Science
- Brewery
- Enzymatic Analysis for food and medicine,
  eg. Acetate, Citric acid, Glutamic acid, Ethanol, Sulfite, Cholesterol, Hydroxy butyric acid, Nitrate, Starch, Lactose (Galac), Lactose (Gluc), D-Glucose, Galactose, Fructose, Saccharose, L-Lactic acid, D-/L-Lactic acid, Oxalic acid, Sorbitol/Xylitol, L-Malate, Urea/ Ammoniac, Free fatty acids, Porphyrine, Delta ALA, (5-amino-levulin acid), PBG (porpho-bilinogen), Bile acid, Pyruvate

Optional Modules

Module 21 CFR Part 11 Compliance

- User management including 4 user levels plus administrator function, electronic signatures

MPL- Method programming for WinASPECT® PLUS

The macro-programmable software offers the following options:
- Automated scope of basic standard software features for measurement and evaluation
- Extended programming language capabilities
- Resources extended by special-purpose command groups

Validation Software for SPECORD® PLUS

- Verification of all relevant device parameters according to the guidelines of the Pharmacopoeia Europaea
- Validation is strictly based on the regulations of Ph.Eur.
- The Validation software makes it easy for you to meet the standards of Good Laboratory Practice (GLP)

Subject to changes in design and scope of delivery as well as further technical development!