

Spectroquant® instruments

Spectroquant® Pharo 300

All functions of the Spectroquant® Pharo 100 plus an additional wavelength spectrum from 190 to 1100 nm make the Spectroquant® Pharo 300 an instrument with a virtually limitless range of applications, enabling to carry out all your measurements with ease and comfortably.



Spectroquant® UV/VIS Spectrophotometer Pharo 300

Ord. No. 1.00707.0001

Spectrophotometer with plug-in power supply for all routine measurements and for individual use in the UV/VIS range, backlit graphic display

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| Wavelength range | 190 - 1100 nm |
| Technology | Stabilized single-beam |
| Source lamp | Xenon flashlamp |
| Measuring modes | Concentration, absorbance, transmission, multi wavelengths, scans and kinetics in absorbance or transmission mode |
| Spectral bandwidth | 4 nm |
| Wavelength resolution | 1 nm |
| Wavelength accuracy | ±1 nm |
| Photometric range | ±3.3 A |
| Absorbance resolution | 0.001 A |
| Absorbance accuracy | 0.003 A bei <0.600 A / 0.5 % of the reading for 0.600 ≤A ≤2.000 |
| Scan | Scans in 1 nm increments with free selectable wavelength range |
| Cells | 16 mm round, 10, 20, 50 mm rectangular with automatic cell size recognition |
| Test recognition | Automatic bar-code reading system for all Spectroquant® cell and reagent tests |
| Method update | via Internet / PC or via USB stick |
| Instrument-supported quality assurance | AQA 1: Instrument check using PhotoCheck and / or CertiPUR® UV/VIS standards AQA 2: System check using CombiCheck resp. CertiPUR® standards AQA 3: Testing samples for interferences by means of the MatrixCheck function |
| Communication interfaces | 1 USB-A, 1 USB-B, 1 RS 232 |
| Data storage | 1000 single measured values; 4 MB for scans and kinetics, i.e. approx. 100 scans (300 - 900 nm) and 400 kinetic curves with 150 single values each |
| Languages | German, English, Spanish, French, Italian, Brazilian-Portuguese, Bulgarian, Chinese (simplified), Chinese (traditional), Czech, Greek, Hungarian (Magyar), Indonesian, Japanese, Malay, Mazedonian, Norwegian, Polish, Portuguese (see Brazilian-Portuguese), Russian, Slovenian, Thai* |
| Methods and profiles | Programmed methods of all Spectroquant® cell and reagent tests, 100 user-defined methods, 20 profiles for kinetic and absorption scans each |
| Protection class | IP 31 |
| Power supply | Country specific power supply, length of the connection cable: 2.0 m |
| Power requirements | 100 - 240 V~ / 50 - 60 Hz / 0.70 A |
| Temperature | Operating: +10°C to +35°C, Storage: -25°C to +65°C |
| Allowable relative humidity | Annual mean: ≤75 %, 30 days / year: 95 %, other days: 85 % |
| Dimensions | 404 x 197 x 314 mm (width x height x depth) |
| Weight (without plug-in power supply) | approx. 4.5 kg |



* please contact your Merck representative for availability of additional languages