



Constant of Dense 200
Spectroquant® Prove 300
Spectrophotometer with reference beam technology
190 – 1,100 nm
Xenon flash lamp
Concentration, absorbance, transmission, multi wavelengths, spectra and kinetics in absorbance and transmission mode
4 nm
1 nm (scan 0.1 nm)
± 0.2 nm
± 1 nm
$\leq$ 0.1 % transmission at 340 nm; $\leq$ 1 % transmission at 198 nm
± 3.0 Abs
0.001 Abs
$\pm$ 0.003 absorbance at 1 absorbance between 200 nm and 900 nm
at 300 – 900 nm 1 absorbance: ± 0.005 absorbance 2 absorbance: ± 0.005 absorbance 2.5 absorbance: ± 0.008 absorbance
Limits freely selectable within the wavelength range Increment: 0.1/1/5 nm Recording duration for the complete wavelength range: < 7 min
Resistive touch screen
Automatic 2-D barcode reading system for all Spectroquant <sup>®</sup> cell and reagent tests Barcode contains lot, expiry, and calibration data. Data stored with each measurement.
16 mm round cells, 10, 20 and 50 mm rectangular cells with automatic recognition
Removable for easy cleaning
Programmed methods of all Spectroquant® cell and reagent tests, additional user defined methods: 99 concentration mode, 20 kinetic mode, 20 wavelength scans
Free preprogrammed applications: bromate, brewery packages (MEBAK/EBC methods), sugar (ICUMSA), oil (DOBI, olive oil)
Measurement with open shaft possible due to proprietary solution (patent pending)
Individual settings for all methods in AQA 1 mode: instrument check using PhotoCheck and/or Certipur® standards AQA 2 mode: system check using CombiCheck or CRM standard solutions
Instrument supported pipette check and sample matrix check
Direct access to absorption/transmission, kinetic and spectrum measurement
Free updates on Merck Millipore website via internet and USB stick
USB: 2 x USB-A (for printer, USB memory devices, keyboard or bar code reader), 1 x USB-B Ethernet: LAN connection
2,000 single measured values from the measuring modes concentration, absorbance / % transmission and multi wavelengths. 20 measurement result records of spectra and kinetics methods each.
English, German, Spanish, French, Italian, Brazilian-Portuguese, Chinese (simplified and traditional), Japanese, Russian, Bulgarian, Czech, Danish, Dutch, Greek, Hungarian, Indonesian, Malay, Mazedonian Norwegian, Polish, Romanian, Serbian, Slowenian, Swedish, Thai, Turkish, Vietnamese
IP 31 for optics and electronics
Power supply with 3 cables (1.2 m long) fitting US, EU and UK plugs Total cable length 3 m (1.8 and 1.2 m)
100 V – 230 V, 50 – 60 Hz
Standard working condition: 15 W; power save mode: 8.4 W
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Standard working condition: 15 W; power save mode: 8.4 W   Operation: 10 - 35°C; storage: -20°C to +60°C for 24 hours   Operation: 20 - 80 % rH, storage in ambient relative humidity conditions of 20 % to 95 %.   Non-condensing   416 x 276 x 237 mm (width x depth x height)   approx. 6.8 kg

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