



Accuracy from start to finish

DR 3900 Spectrophotometer with RFID technology

Order number: LPV440.99.00001

High-performance VIS spectrophotometer with RFID technology for reliable and traceable measurement results of routine analysis and user applications.

- Traceability starts with sampling
- IBR+ increases the reliability of your measurement values
- Rapid data updates
- Quality assurance made easy with AQA+
- Alignment of laboratory and process analysis

Compact and reliable VIS spectrophotometer with reference beam technology. Samples are traced back to sample location due to RFID technology. Lot number and expiry date information of reagents are now included on the 2D barcode. The RFID module reads out and displays all batch specific information from cuvette test box. The batch certificate can be printed out immediately via the spectrophotometer. The RFID module makes method updates quick, convenient and easy as well.

Process results can be compared to laboratory reference values in the photometer via LINK2SC connection between SC controller and photometer. Data can be exchanged bi-directionally via Ethernet, i.e. matrix corrections of process probes can be done directly from the laboratory.

Technical Specifications

Beam Height	10 mm
Cuvette compatibility	Rectangular: 10, 20, 30, 50 mm, 1 inch; round: 13 mm, 1 inch
Data storage	2000 measured values (Result, Date, Time, Sample ID, Operator ID)
Dimensions Metric (H x W X D)	151 mm x 350 mm x 255 mm
Display	7 " 7" TFT WVGA colour touchscreen
Height	151 mm
IBR+	Automatic test recognition, lot control and expiry date check
Includes	Adapter "A" for 1" round + ACCUVAC/1 cm rectangular cuvettes,

printed multilingual basic user manual (bg, cz, da, de, en, es, fr, gr, hr, hu, it, nl, pl, pt, ro, ru, sl, sv, tr), power supply 100 - 240V, 47 - 63Hz, Operator RFID Tag.

LINK2SC	Data exchange with SC 1000 controller
Manual languages	German, English, French, Italian, Spanish, Portuguese (PT), Czech, Danish, Dutch, Hungarian, Polish, Romanian, Russian, Slovenian, Swedish, Turkish, Greek, Finnish, Croatian, Bulgarian, Serbian, Slovakian
Max. Storage Humidity	80 %
Max. operating humidity	80 %
Operating conditions	10 °C - 40 °C
Operating mode	Transmittance (%), Absorbance and Concentration, Scanning
Optical system	Reference beam, spectral
Photometric accuracy	5 mAbs at 0.0 to 0.5 Abs
Photometric accuracy	1 % at 0.50 to 2.0 Abs
Photometric linearity	< 0.005 - 2 Abs
Photometric linearity	1 % at >2 Abs with neutral glass at 546 nm
Photometric measuring range	± 3.0 Abs (wavelength range 340 to 900 nm)
Power Supply	Desk Power Supply
Power requirements (Hz)	50/60 Hz
Power requirements (Voltage)	110 - 240 V AC
Power supply	External power supply, 100 - 240 V, 50 - 60 Hz
Pre-programmed methods	> 220
Printer compatibility	Supports most office deskjet printers
Quality assurance	Function to schedule and document QA with pass/fail indication
Source lamp	Tungsten (VIS)
Specific technology	RFID for easy method update, sample ID and Certificate of Analysis
Spectral bandwidth	5 nm
Storage conditions	-30 °C - 60 °C
Stray light	< 0.001 T at 340 nm with NaNO ₂
User interface	Bulgarian, Chinese, Croatian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean,

Polish, Portuguese - Brazilian, Portuguese,
Russian, Serbian, Slovakian, Slovenian,
Spanish, Swedish, Turkish

User programmes	100
Warranty	2 years
Wavelength accuracy	± 1.5 nm (wavelength range 340 to 900 nm)
Wavelength calibration	automatic
Wavelength range	320 - 1100 nm
Wavelength reproducibility	± 0.1 nm
Wavelength resolution	1 nm
Wavelength selection	Automatic
Weight	4.2 kg
Width	350 mm

Subject to change without notice.