

SPECTROPHOTOMETER

The Hach Model Spectrophotometer is a microprocessor-controlled, single-beam instrument suitable for colorimetric testing in the laboratory or the field. The instrument is precalibrated for over 120 different colorimetric measurements and has provisions for user-entered calibrations as well as future Hach updates.

Test results can be displayed in percent transmittance, absorbance or concentration in the appropriate units of measure. The instrument offers automatic ranging in the preprogrammed parameters, operator-selected languages (a choice of 14), full prompting during testing and error messages for procedural or instrument troubleshooting.

The spectrophotometer can operate on battery power or ac line power using the battery eliminator/charger unit supplied with the accessories. The battery holder supplied holds six-D size dry cells (batteries not supplied) that will power the instrument for approximately 100 tests.



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Specifications

Wavelength Range:	400 – 900 nm
Band width:	12 ± 2 nm @ 600 nm
Wavelength Accuracy:	± 2 nm from 400-700 nm; ± 3 nm from 700-900 nm
Wavelength Resolution:	1 nm
Monochromator Design:	Littrow Prism, Aspheric Optics
Wavelength Selection:	Manual
Wavelength Readout:	3-digit LCD, 0.5-cm Character Height
Photometric Linearity:	± 0.002 A (0-1 A 500 nm – constant on mode)
Photometric Reproducibility:	±0.005 A (0-1 A – constant on mode)
Source lamp:	Halogen Tungsten
Detector:	Silicon Photodiode, UV enhanced
Data Readout:	4-digit LCD, 1.5-cm Character Height
Message Display:	16 character LCD dot-matrix, 0.6-cm Character Height

Specifications

Operation Modes:	Momentary, Constant On
Readout Modes:	Transmittance, Absorbance, Concentration
Readout Languages:	Selectable by Menu: English, French, Italian, Spanish, Portuguese, German, Dutch, Norwegian, Swedish, Danish, Finnish, Turkish, Greek, Japanese.
External Outputs:	RS-232 Serial, (printer optional) 0-1 v Analog
Line Power:	Selectable 110/220 v 50/60 Hz
Battery Power:	Rechargeable 8 v sealed lead-acid (optional) or 6-battery “D” Cell Pack. Holder supplied.
Dimensions:	22 x 24 x 11cm (8.75 x 9.5 x 4.375 in)
Weight:	Net: 2 kg (4.5 lb); Shipping: 6.8 kg (15lbs)
Dynamic Range:	0-2 A (100:1)
Stray Light:	< 0.1% at 400 nm
Bulb Life:	2000 hrs, > 1,000,000 measurement cycles
Battery Life (rechargeable):	1000 measurement cycles. Charger included
Battery Weight (rechargeable):	Net: 1.1 kg (2.5 lbs); Shipping: 2.2 kg (5 lbs)
Temperature Range:	0 - 40°C operating range