



## DR1900 Portable Spectrophotometer

**Product #:** DR1900-02L  
**AED Price:** Contact Hach

### Lab methods in the palm of your hand

The DR1900 is perfect for use in the field because it is the lightest and most compact portable spectrophotometer. It also can perform that largest number of tests of any portable instrument. Underneath the rugged exterior, the DR1900 has the largest number--over 220--of the most commonly tested preprogrammed methods already built in. You can also use the easy-to-use interface to create your own methods. Also, it is flexible because you can use the widest range of vial sizes of any other spectrophotometer.

**Portability** - Easy to hold, and operate, the compact DR1900 is a valuable tool for your field technicians. This is lightest and smallest spec on the market.

**Accuracy** - Tests are performed with a wavelength range of 340 to 800 nm, which make this a field instrument you can use to find results typically only seen in laboratory instruments.

**Ruggedness** - The DR1900 is built for rugged conditions. Built as a hand-held spec the DR1900 has a large, clear screen and a simple user interface that makes testing easier than ever in even the most demanding conditions.

Upgrade from your DR2800 or order a new DR1900 today!

Please note: LCK cuvette test evaluation possible, but without barcode reading & 10 fold measurement feature.

**Carry anywhere due to a compact design**

**Test what you need with hundreds of built-in methods**

**Ensure accuracy in the field**

**Make testing easier with a clear, easy-to-use interface**

**Test in demanding environments - water and dust-proof design**

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### Specifications

Battery life: 15 days (typical) @ 5 readings a day / 5 day week without backlight\*

\* Backlight usage will decrease battery life.

Battery requirements: 4 AA size batteries

Cuvette compatibility: 10 mm square / 1 inch square and

	13 mm / 1 inch round
Data storage:	500 measured values (Result, Date, Time, Sample ID, User ID acc. to GLP)
Detector:	Silicon photodiode
Dimensions (H x W x D):	98 mm x 178 mm x 267 mm
Display:	Graphical display 240 x 160 pixel (LCD, b/w, backlit)
Enclosure waterproof rating:	IP67
Environmental conditions: relative humidity:	Max. 80 % relative humidity (non-condensing)
Environmental conditions: temperature:	10 - 40 °C
Interface:	USB type Mini IP67 (with optional Module)
Operating conditions:	10 - 40 °C, max. 80 % relative humidity (non-condensing)
Operating mode:	Transmittance (%), Absorbance and Concentration
Optical system:	Reference beam, spectral
Photometric accuracy:	± 0.003 Abs @ 0.0 - 0.5 Abs
Photometric linearity:	< 0.5 % (0.5 - 2.0 Abs)
Photometric measuring range:	0 - 3 Abs (wavelength range 340 - 800 nm)
Power Module?:	No
Power supply:	110 - 240 V / 50/60 Hz (* optional Module required. May not be available in all region)
Pre-programmed methods:	220 (Please note: LCK cuvette tests can be evaluated, but without 10-fold rotational measurement and barcode readers.)
Reproducibility:	± 0.005 Abs (0 - 1 A)
Source lamp:	Xenon Flash
Storage conditions:	-30 - 60 °C (-30 - 140 °F), max. 80 % relative humidity (non-condensing)
Stray light:	< 0.5 %T at 340 nm with NaNO <sub>2</sub>
Temperature range:	0 - 50 °C
User interface:	English, French, German, Italian, Spanish, Portuguese, Bulgarian, Chinese, Czech, Danish, Dutch, Finnish, Greek, Hungarian, Japanese, Korean, Polish, Romanian, Russian, Slovenian, Swedish, Turkish
User programmes:	50
Warranty:	24 months
Wavelength accuracy:	± 2 nm (range 340 - 800nm)
Wavelength calibration:	Automatic
Wavelength range:	340 - 800 nm
Wavelength selection:	Automatic
Weight:	1.5 kg
What's included?:	Printed Basic Manual, CD with procedure manual (English) in pdf format. Set of vial adapter in carton box. Pkg of 4 AA Alkaline Battery. Dust Cover

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