DR1900 Portable Spectrophotometer with USB+Power Module

Product #: 9624700
USD Price: Contact Hach
Available

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: TNTplus vial test evaluation is possible, but it does not have the barcode identification & 10-fold measurement and outlier elimination options available.

Bundle includes the DR1900 Portable Spectrophotometer and USB with power module (LZV813) allowing data transfer and line power options.

Carry anywhere due to a thoughtful, compact design

Test what you need

Ensure accuracy in the field

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

Secure in your environment - water and dust-proof design

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 alkali cells

Cuvette Compatibility 2: 10 mm square / 1 inch square and 13 mm / 16 mm / 1 inch round

Data Logger: 500 measured values (Result, Date, Time, Sample ID, User ID acc. to GLP)

Detector: Silicon photodiode

Display: Graphical display 240 x 160 pixel (LCD, b/w, backlit)

Enclosure Rating: IP67
Interface: USB type Mini IP67 (with USB + Power Module)

Mains Connection 2: 110 - 240 V / 50/60 Hz (* optional Module required. May not be available in all regions)

Mains Connection 3: 4x NiMH rechargeable Battery (* optional Module required. May not be available in all regions)

Operating Conditions: 10 - 40 °C (50 - 104 °F), max. 80 % relative humidity (non-condensing)

Operating Humidity: Max. 80 % relative humidity (non-condensing)

Operating Mode: Transmittance (%), Absorbance and Concentration

Operating Temperature: 10 - 40 °C

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?: Yes

Power Supply: 4 x AA size Alkaline

4x NiMH rechargeable Battery

Power supply: 110 - 240 V; 50/60 Hz

Region: US

Reproducibility: ± 0.005 Abs (0 - 1 A)

Sample Cell Compatibility: 13 / 16 mm and 1 inch round 10 x 10 mm 1 inch square

adapter for round vials and 10x10mm

Storage Conditions: -30 - 60 °C (-30 - 140 °F), max. 80 % relative humidity (non-condensing)

Stray Light: < 0.5 %T at 340 nm with NaNO₂

Temperature Range: 0 - 50 °C (32 - 122 °F)

User Interface Languages: English, French, German, Italian, Spanish, Portuguese, Bulgarian, Chinese, Czech,

Danish, Dutch, Finnish, Greek, Hungarian, Japanese, Korean, Polish, Romanian,

Russian, Slovenian, Swedish, Turkish

User Programs: 50

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?

Includes: portable spectrometer, printed basic instrument manual, dust cover, 1-in. square matched glass sample cells, AA alkaline batteries 4/pk, a four-type vial adapter set, and a USB + Power module (LZV813).