DR3900 Spectrophotometer without RFID* Technology

Product #: **LPV440.98.00001**

AED Price: Contact Hach

Expert water analysis made simple.

Hach is committed to understanding your measurement needs in order to provide you and your lab with the right solution.

How do you currently ensure the accuracy of your current measurements? Are your laboratory testing procedures optimised to save time and ensure accuracy?

The DR3900 is designed to deliver accurate results quickly with Hach's innovative TNTplus and LCK reagents, which are optimised around:

• Sample preparation: reduced handling steps, precise dosing

• Sample analysis: automatic test recognition, expiration date check, etc.

• Utilisation of the new Truecal software to eliminate lot to lot variation

• Documentation of results: versatile data management

The DR3900 is a benchtop visible spectrum (320 - 1100 nm), split beam spectrophotometer with over 220 pre-programmed methods optimised for laboratory water analysis. With your daily routine of water analysis in mind, the DR3900 spectrophotometer is optimised for safe processes and accurate results. Control-parameters like Ammonium, COD, Phosphate, Nitrate and many others are easy to perform. The handling of tests and spectrophotometer is well designed to avoid any errors in your water analysis.

This instrument connects to Claros, Hach’s innovative Water Intelligence System, enabling you to seamlessly connect and manage instruments, data, and process – anywhere, anytime. The result is greater confidence in your data and improved efficiency in your operations. To unlock the full potential of Claros, insist on Claros Enabled instruments.

Simple preparation
The boxes and cuvettes are colour-coded for fast and easy parameter and range recognition. Step-by-step illustrated test methods are printed on the box as quick reference or can be called up in the instrument menu.

Fast execution
The new 2D barcode details the batch number and the expiry date of the reagents. During the measurement process the DR3900 immediately picks up all the information on the cuvette by using the IBR+ barcode reader. If the expiry date has already passed, an automatic warning will be issued.

Comprehensive documentation
Measurement results are documented on the detailed level with timestamp, operator ID, absorbance reading, and calculated concentration. The 2D barcode delivers the lot number and expiry date, logged with every result.

Customisable
With the ability to store hundreds of user-determined methods, operators are able to tailor the DR3900 to meet the everyday needs of the plant.

Being able to optimise and customise the method portfolio, combined with regular software updates and Claros connectivity, makes the DR3900 the ultimate solution to water quality lab needs.

Specifications

Beam Height:	10 mm
Cuvette compatibility:	Rectangular: 10 mm, 50 mm, 1 inch Round: 13 mm, 1 inch
Data storage:	2000 measured values (Result, Date, Time, Sample ID, User ID)
Dimensions (H x W x D):	151 mm x 350 mm x 255 mm
Display:	7" TFT
Display resolution:	WVGA (800 pix x 480 pix)
Display size:	7 inch (17.8 cm)
Display type:	Coloured touch-screen
Enclosure waterproof rating:	IP30
Interfaces:	USB type A (2) USB type B Ethernet
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. operating humidity:	80 %
Max. Storage Humidity:	80 %
Operating conditions:	10 - 40 °C
Operating mode:	Transmittance (%), Absorbance and Concentration, Scanning
Optical system:	Reference beam, spectral
Photometric accuracy:	5 mAbs @ 0.0 - 0.5 Abs
Photometric linearity:	≤ 1 % at >2 Abs with neutral glass at 546 nm
Photometric measuring range:	± 3.0 Abs (wavelength range 340 - 900 nm)
Power requirements (Hz):	50/60 Hz
Power requirements (Voltage):	110 - 240 V AC
Power Supply:	Desk Power Supply
Power supply:	With external power supply
Pre-programmed methods:	> 220
Source lamp:	Gas-filled Tungsten (visible)
Specific Technology:	RFID not applicable with this model
Spectral Bandwidth:	5 nm
Standard accessories:	None
Storage conditions:	-30 °C - 60 °C
Stray light:	< 0.1 % 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 - Brasilian, Portuguese, Russian, Serbian, Slovakian, Slowenian, Spanish, Swedish, Turkish
User programmes:	100
Warranty:	24 months

Wavelength accuracy:	± 1.5 nm (wavelength range 340 - 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
What's included?:	Includes: Spectrophotometer DR3900, adapter "A" for 1" round + Accuvac/1 cm rectangular cuvettes, manual in 5 languages (GB, D, F, I, E), power supply 100 - 240V, 47 - 63Hz.

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