DR6000 UV VIS Spectrophotometer with RFID Technology

Product #: **LPV441.99.00012**

ZAR Price: Contact Hach
Available

The industry’s most advanced lab spectrophotometer.

The DR6000 is the industry’s most advanced lab spectrophotometer. It offers high-speed wavelength scanning across the UV and Visible Spectrum, and comes with over 250 pre-programmed methods including the most common testing methods used today. With optional accessories allowing for high-volume testing via a carousel sample changer, and increased accuracy with a sample delivery system that eliminates optical difference errors, this instrument ensures you are ready to handle your wide-ranging water testing needs.

Combining the DR6000 with Hach’s unique TNTplus reagent vials, you gain additional accuracy with guided step-by-step testing procedures, while making scratched, flawed or dirty glassware a non-issue due to averaging 10 readings and discarding outliers. The instrument also utilizes RFID technology, allowing it to let you know automatically if your TNTplus reagents have expired, while detecting coefficient factors to avoid errors which can occur in lot-to-lot variations in the chemistries.

Partnering all of these features with an integrated QA software package allows for scheduling, documenting and interpreting your needed quality measurements.

*RFID currently available only in US, Anguilla, American Samoa, Australia, Bolivia, Canada, Cayman Islands, Columbia, Dominican Republic, El Salvador, Federated States of Micronesia, Guam, Guatemala, Marshall Islands, New Zealand, Northern Mariana Islands, Palau, Panama, Puerto Rico, and US Virgin Islands. Customers in other countries should order LPV441.99.00002.

Your Water Testing Needs, All in One Spectrophotometer
The DR6000 has the most pre-programmed testing methods, including high-speed wavelength scanning across the UV and Visible Spectrum.

Built for High Volume and Exceptional Accuracy
A carousel sample changer allows up to seven sequential measurements. The Sipper Module, an instrument-controlled sample delivery system, increases precision by constant optical characteristics.

Advanced Quality Assurance at Your Fingertips
The DR6000 comes with integrated QA software for scheduling, documenting and interpreting all of your needed quality measurements.

Guided Procedures and Elimination of False Readings
The DR6000, when used with TNTplus reagent vials, provides the accurate results you need by guiding you step-by-step through your testing procedures. With TNTplus, the instrument averages 10 readings and eliminates outliers, making scratched, flawed or dirty glassware a non-issue.

Automatically Avoids Errors
RFID* technology automatically updates the program calibration factors when you place a TNTplus reagent box near the DR6000. The instrument identifies chemistry expiration dates via a barcode on the vials, and detects chemistry coefficient factors to avoid errors that can occur in lot-to-lot variations in the chemistry.

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Specifications

Data Logger:	5000 data points (result, date, time, sample-ID, user-ID)
Display:	TFT 7 inch WVGA color touch
Enclosure rating:	IP20 with closed lid
Interfaces:	USB type A (2), USB type B, Ethernet, RFID module
Manual Languages:	en, es, fr, ja, ko, pt, zh
Operating conditions:	10 - 40 °C, max. 80% relative humidity (non-condensing)
Operating Mode:	Transmittance (%), absorbance and concentration (wavelength, time)
Optical System:	Reference beam, spectral
Photometric Accuracy:	5 mAbs @ 0.0 - 0.5 Abs
	<1% @ 0.5 - 2.0 Abs @ 546 nm
Photometric Linearity:	0.005 - 2 Abs
	≤ 0.01 at > 2 Abs with neutral glass at 546 nm
Photometric Measuring Range:	± 3 Abs
Power Requirement:	100 - 240 V; 50/60 Hz
Preprogrammed methods:	> 240
Sample Cell Compatibility:	Rectangular: 10, 20, 30, 50 mm, 1 inch; round: 13 mm, 16 mm, 1 inch
	Optional 100 mm rectangular cell with additional adapter
Scanning Speed:	900 nm/min (in 1 nm steps)
Source Lamp:	Tungsten (visible range), deuterium (UV range)
Specific Technology:	RFID for easy method update, sample ID and Certificate of Analysis
Spectral Bandwidth:	2 nm
Storage conditions:	-25 to 60 °C / max. 80% relative humidity (non-condensing)
Stray Light:	KI-solution at 220 nm < 3.3 Abs/ < 0.05%
User Interface Languages:	bg, cn, cz, da, en, es, fr, gr, hr, hu, it, jp, kr, nl, pl, pt, ro, ru, sl, sl, sv, tr
User programs:	200
Warranty:	12 months
Wavelength Accuracy:	± 1 nm
Wavelength Range:	190 - 1100 nm
Wavelength Reproducibility:	< 0.1 nm
Wavelength Resolution:	0.1 nm
Wavelength Selection:	Automatic, based on method selection
Weight:	11 kg
What's included?:	1x DR6000 UV VIS Spectrophotometer
	1x Power Cord (US, EU)
	1x Universal-Adapter
	1x Dust Cover
	Matched pair of 1 inch glass sample cells
	Printed multilingual basic user manual (en, fr, es, pt, zh, jp, ko)

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