

DR 6000EDU™ UV-VIS SPECTROPHOTOMETER

VWR 
1.800.932.5000 vwr.com



The industry's most versatile lab spectrophotometer.

With UV and Visible Spectrum capabilities, pre-programmed and configurable methods, fast wavelength scanning, and integrated quality assurance software, the DR 6000EDU ensures you are ready to handle all your analytical testing needs.

Your Analytical Testing Needs, All in One Spectrophotometer

The versatile DR 6000EDU has a wide variety of pre-programmed testing methods, including high-speed wavelength scanning across the UV and Visible Spectrum.

Accessories for High Volume and High Accuracy Testing Needs

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 DR 6000EDU comes with integrated QA software for scheduling, documenting and interpreting all of your needed quality measurements.

Simple Operation for Accurate Results

Easy-to-use and intuitive, the DR 6000EDU allows you to be confident you are producing high-quality, accurate and reliable results - every time.

Designed with Education and Research in Mind



The simple, easy-to-operate DR 6000EDU allows you to focus your attention on the research at hand and on your students. Optimized for education and research settings, the DR 6000EDU offers:

- An intuitive interface that is both easy-to-teach and easy-to use
- The ability to download data and analyze it on a separate computer
- Built in quality assurance so you and your students can be confident in your results

Specifications*

Operating Mode	Transmittance (%), absorbance and concentration (wavelength, time)
Source Lamp	Tungsten (visible range), deuterium (UV range)
Wavelength Range	190 - 1100 nm
Wavelength Accuracy	± 1 nm
Wavelength Reproducibility	< 0.1 nm nm
Wavelength Resolution	0.1 nm
Wavelength Selection	Automatic, based on method selection
Spectral Bandwidth	2 nm
Scanning Speed	900 nm/min (in 1 nm steps)
Photometric Measuring Range	± 3 Abs
Photometric Accuracy	5 mAbs at 0.0-0.5 Abs <1% at 0.5-2.0 Abs at 546 nm
Photometric Linearity	0.005 - 2 Abs ≤ 0.01 at > 2 Abs with neutral glass at 546 nm
Stray Light	KI-solution at 220 nm < 3.3 Abs/ < 0.05%

Display	TFT 7 inch WVGA color touch
Data Logger	5000 data points (result, date, time, sample-ID, user-ID)
Preprogrammed Methods	> 250
User Programs	200
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
Dimensions (H x W x D)	8.5 in x 19.7 in x 18.1 in (215 mm x 500 mm x 460 mm)
Weight	24.25 lbs. (11 kg)
Operating Conditions	10 at 40 °C, max. 80% relative humidity (non-condensing)
Storage Conditions	-25 to 60 °C max. 80% relative humidity (non-condensing)
Enclosure Rating	IP20 with closed lid
Interfaces	USB type A (2), USB type B, Ethernet
Warranty	1 year

**Subject to change without notice.*

Available Tests

The following table lists available tests and overall ranges for the Hach DR 6000EDU Benchtop Spectrophotometer. The ranges may represent more than one available test for the instrument.

Parameter	Range	Parameter	Range
Alachlor	0.1 to 0.5 ppb, threshold	Iron, Total	0.009 to 6.0 mg/L
Aluminum	0.002 to 0.800 mg/L	Lead	3 µg/L to 2.0 mg/L
Ammonia, Nitrogen	0.015 to 50.0 mg/L	Manganese	0.006 to 20.0 mg/L
Arsenic	0.020 to 0.200 mg/L	Mercury	0.1 to 2.5 µg/L
Atrazine	0.5 to 3.0 ppb, threshold	Methylethylketoxime (MEKO)	15 to 1000 µg/L
Barium	2 to 100 mg/L	Molybdenum, Molybdate	0.02 to 40.0 mg/L
Benzotriazole	1.0 to 16.0 mg/L	Nickel	0.006 to 6.0 mg/L
Boron	0.2 to 14.0 mg/L	Nitrate, Nitrogen	0.01 to 35 mg/L
Bromine	0.05 to 4.50 mg/L	Nitrite, Nitrogen	0.002 to 250 mg/L
Cadmium	.7 µg/L to 0.30 mg/L	Nitrogen, Total	0.5 to 150 mg/L
Carbohydrazide	5 to 600 µg/L	Nitrogen, Total Inorganic	0.2 to 25.0 mg/L
Chloramine, Mono	0.04 to 10.0 mg/L	Nitrogen, Total Kjeldahl	1 to 150 mg/L
Chloride	0.1 to 25.0 mg/L	Ozone	0.01 to 1.50 mg/L
Chlorine Dioxide	0.01 to 1000 mg/L	PCB (Polychlorinated Biphenyls)	1 to 50 ppm, threshold
Chlorine, Free	0.02 to 10.0 mg/L	Phenols	0.002 to 0.200 mg/L
Chlorine, Total	2 µg/L to 10.0 mg/L	Phosphonates	0.02 to 125.0 mg/L
Chromium, Hexavalent	0.010 to 1.00 mg/L	Phosphorus, Acid Hydrolyzable	0.06 to 100.0 mg/L
Chromium, Total	0.01 to 0.70 mg/L	Phosphorus, Reactive (Orthophosphate)	19 µg/L to 100.0 mg/L
Cobalt	0.01 to 2.00 mg/L	Phosphorus, Total	0.06 to 100.0 mg/L
Color	3 to 500 units	Potassium	0.1 to 7.0 mg/L
COD (Chemical Oxygen Demand)	0.7 to 15,000 mg/L	Quaternary Ammonium Compounds	0.2 to 5.0 mg/L
Copper	1 µg/L to 8.0 mg/L	Selenium	0.01 to 1.00 mg/L
Cyanide	0.002 to 0.240 mg/L	Silica	3 µg/L to 100 mg/L
Cyanuric Acid	5 to 50 mg/L	Silver	0.005 to 0.700 mg/L
DEHA (Diethylhydroxylamine)	3 to 450 µg/L	Sulfate	2 to 900 mg/L
Dissolved Oxygen	6 µg/L to 40 mg/L	Sulfide	5 to 800 µg/L
Erythorbic Acid (Isoascorbic acid)	13 to 1500 µg/L	Surfactants, Anionic	0.002 to 0.275 mg/L
Fluoride	0.02 to 2.00 mg/L	Suspended Solids	5 to 750 mg/L
Formaldehyde	3 to 500 µg/L	Tannin and Lignin	0.1 to 9.0 mg/L
Hardness, Total (Calcium and Magnesium as CaCO ₃)	4 µg/L to 4.00 mg/L	TOC (Total Organic Carbon)	0.3 to 700 mg/L
Hydrazine	4 to 600 µg/L	Tolyltriazole	1.0 to 20.0 mg/L
Hydroquinone	9 to 1000 µg/L	Toxicity	0 to 100% Inhibition
Iodine	0.07 to 7.00 mg/L	TTHM (Trihalomethanes, Total)	10 to 600 µg/L
Iron, Ferrous	0.02 to 3.00 mg/L	TPH (Total Petroleum Hydrocarbons)	2 to 200 ppm, threshold
		Zinc	0.01 to 3.00 mg/L

Ordering Information

DR 6000EDU UV VIS Spectrophotometer includes a multi adapter for round and rectangular vials, power cord, basic user manual, CD with manual and procedure manual in PDF format.

Cat. No.

89409-698 DR 6000EDU UV VIS Spectrophotometer

Accessories

Cat. No.

89409-724 SIP 10, sipper set for Pour-Thru methods, 1 inch vial

89409-726 SIP 10, sipper set for Pour-Thru methods, 1 cm vial, quartz

89409-710 Carousel Holder 7x1 cm

89409-712 Carousel Holder 5x1 inch

89409-714 Application Software Enzymatic Food Analysis

89409-716 Application Software Brewery Analysis

Replacement Parts

Cat. No.

89409-700 Sample Cell: 1 Square Glass 10 mL, 2 pack

89409-706 Sample Cell: 1 cm Rectangular Quartz 10mm Pathlength, 2 pack

89409-718 Halogen Lamp

89409-720 Deuterium Lamp

89409-722 Dust Cover



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