

B001772 Spectrometer and Accessories

		B001772	Vernier Software & Technology	Ward's Natural Science	Fisher Scientific Company
item	ea				
1	10	Spectrometer	\$1,163.03	\$1,199.00	\$1,262.31
		<ul style="list-style-type: none"> <li>Vernier Model #V-SPEC</li> <li>Powered by Ocean Optics™ technology</li> <li>Portable device measures 10cm x 9cm x 3cm</li> <li>One-step calibration of the full spectrum</li> <li>Complete visible light spectrum, 380 – 950 nm, collected in a fraction of a second</li> <li>Open cuvette holder allows for access to the sample during testing</li> <li>Other Vernier sensors can be used simultaneously</li> <li>Draws its power from computer, eliminating the need for additional power source</li> <li>Requires Logger Pro 3.5 software or newer</li> </ul>	\$11,630.30	\$11,990.00	\$12,623.10
2	6	Labquest Quick-Start Package	\$343.00	\$358.00	\$358.00
		<ul style="list-style-type: none"> <li>Vernier Model #LQ-QSP</li> <li>Includes Logger Lite software, #LABQ</li> <li>Includes stainless steel temperature probe, #TMP-BTA</li> </ul>	\$2,058.00	\$2,148.00	\$2,148.00
3	10	Optical Fiber	\$121.25	\$125.00	\$125.00
		<ul style="list-style-type: none"> <li>Vernier Model #VIS-NIR</li> <li>400 μm diameter</li> <li>Used with V-SPEC spectrometer</li> </ul>	\$1,212.50	\$1,250.00	\$1,250.00
4	6	pH Sensor	\$76.63	\$79.00	\$125.00
		<ul style="list-style-type: none"> <li>Vernier Model #PH-BTA</li> <li>Type: Sealed, gel-filled, epoxy body, Ag/AgCl</li> <li>Response time: 90% of final reading in 1 second</li> <li>Temperature range: 5 to 80°C</li> <li>12 mm OD</li> <li>Range: pH 0-14</li> <li>13-bit Resolution (SensorDAQ): 0.0025 pH units</li> <li>12-bit Resolution (LabQuest, Go!Link, LabPro, ULI, SBI): 0.005 pH units</li> <li>10-bit Resolution (CBL2): 0.02 pH units</li> <li>Isopotential pH: pH 7 (point at which temp has no effect on output)</li> <li>Output: 59.2 mV/pH at 25°C</li> <li>Stored Calibration Values<sup>2</sup>: Intercept (k<sub>y</sub>) = 13.720, Slope (k<sub>x</sub>) = -3.838</li> </ul>	\$459.78	\$474.00	\$750.00
5	6	Gas Pressure Sensor	\$78.57	\$81.00	\$145.00
		<ul style="list-style-type: none"> <li>Vernier Model #GPS-BTA</li> <li>Pressure Range: 0 to 210 kPa (0 to 2.1 atm or 0 to 1600 mm Hg)</li> <li>Maximum pressure that the sensor can tolerate w/out permanent damage is 4 atm</li> <li>13-bit Resolution (SensorDAQ): 0.025 kPa (0.00025 atm or 0.20 mm Hg)</li> <li>12-bit Resolution (LabQuest, LabPro, Go!Link): 0.05 kPa (0.0005 atm or 0.40 mm Hg)</li> <li>10-bit Resolution (CBL2): 0.2 kPa (0.002 atm or 1.6 mm Hg)</li> <li>Sensing element: SenSym SDX30A4</li> <li>Combined linearity and hysteresis: typical ±0.2% full scale</li> <li>Response time: 100 microseconds</li> <li>Stored Calibration Values for the Gas Pressure Sensor<sup>2</sup>: kPa, slope = 46.48; intercept = 0 atm, slope = 0.4587; intercept = 0 mm Hg = slope = 348.63; intercept = 0</li> </ul>	\$471.42	\$486.00	\$870.00
6	6	Colorimeter	\$110.58	\$114.00	\$202.50
		<ul style="list-style-type: none"> <li>Vernier Model #COL-BTA</li> <li>Colorimer range: 0 to 3 (absorbance)</li> <li>Useful range: 0.05 to 1.0 absorbance (90% to 10% T)</li> <li>Wavelengths: 430nm, 470nm, 565nm, 635nm</li> <li>13-bit Resolution (SensorDAQ): 0.018%T</li> <li>12-bit Resolution (LabQuest, LabPro, ULI II, SBI): 0.035%T</li> <li>10-bit Resolution (CBL2): 0.14%T</li> <li>Supply Voltage: 5VDC ±25 mV</li> <li>Supply Current (typical): 40 mA</li> <li>Power up time: 700ms (maximum)</li> <li>Output voltage range: 0-4 V</li> <li>Transfer function: V out = 0.035-(%T) + 0</li> </ul>	\$663.48	\$684.00	\$1,215.00

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7	6	Temperature Probe	\$28.13	\$29.00	\$49.95
		• Vernier Model #TMP-BTA	\$168.78	\$174.00	\$299.70
		• Stainless steel			
		• Temperature range: -40 to 135°C (-40 to 275°F)			
		• Maximum temperature that the sensor can tolerate without damage: 150°C			
		• 13-bit resolution (LabQuest):			
		0.09°C (-40 to 0°C)			
		0.02°C (0 to 40°C)			
		0.05°C (40 to 100°C)			
		0.13°C (100 to 135°C)			
		• 12-bit resolution (LabQuest, LabPro):			
		0.17°C (-40 to 0°C)			
		0.03°C (0 to 40°C)			
		0.1°C (40 to 100°C)			
		0.25°C (100 to 135°C)			
		• 10-bit resolution (CBL2):			
		0.68°C (-40 to 0°C)			
		0.12°C (0 to 40°C)			
		0.4°C (40 to 100°C)			
		1.0°C (100 to 135°C)			
		• Temperature sensor: 20k NTC Thermistor			
		• Accuracy: ±0.2°C at 0°C, ±0.5°C at 100°C			
		• Response time (time for 90% change in reading):			
		10 seconds (in water, with stirring)			
		400 seconds (in still air)			
		90 seconds (in moving air)			
		• Probe dimensions:			
		Probe length (handle plus body): 15.5 cm			
		Stainless steel body: length 10.5 cm, diameter 4.0 mm			
		Probe handle: length 5.0 cm, diameter 1.25 cm			
		<b>Total</b>	<b>\$16,664.26</b>	<b>\$17,206.00</b>	<b>\$19,155.80</b>
		Business classification			
		FOB			
		Estimated delivery	7-10 bus.days ARO	15-30 days ARO	14 days ARO
		Terms	N30	N30	N30
		Reference number	QT017049	806389-005	8176-4387-76
		Warranty	5 yr limited	1 yr	1 yr
		Quotation effective until	12/31/08	9/27/2008	8/22/2008
		Jeol USA, Inc and Agilent Technologies, Inc submitted a NO BID			
		<b>BID AWARDED TO VERNIER SOFTWARE TECHNOLOGY, INC AS THE LOWEST BIDDER MEETING SPECIFICATIONS.</b>			



