

Math Machines

Connecting Math, Science and Technology

Products for Use with SensorDAQ™

"SensorDAQ" is a trademark of Vernier Software and Technology

ACV (Algebraically Controlled Vehicle)

Item # SDQ-4000 \$ 595.00

with executable software for Windows 2000/XP which allows students or instructors to specify the ACV's linear or angular velocity using standard mathematical formulas--including uniform acceleration, SHM and more. A SensorDAQ™ from Vernier Software and Technology is required.

This package includes executable software for algebraic control of the ACV's linear or angular velocity. Advanced users who wish to program the ACV with LabVIEW should also purchase the source code license below.

RGB Color Mixer

Item # SDQ-RGB \$ 89.95

Algebraically program the intensity of each component in an integrated red-green-blue LED, using time and up to 3 analog probes as the independent variables. As a "free extra," the RGB Mixer also includes a computer-controlled relay, which allows precisely timed activation of motorized carts, fans and other DC devices. A SensorDAQ™ from Vernier Software and Technology is required.

Servo Pointer

Item # SDQ-SVP-A \$ 149.95

Students design and test dynamic mathematical functions to control the position of the Servo Pointer. The free-form functions are virtually unlimited in scope and can be used to control either the angular position, α , of the pointer (in degrees or radians) or the linear position, x , of a laser dot on a wall, a meter stick or another flat target. A SensorDAQ™ from Vernier Software and Technology is required.

Pointer / Power Pulley

Item # P0002-SDQ \$ 199.95

An appropriate alternative to the ACV for activities involving only rotational motion. A programmable 12-V output provides the option of activating devices such as a laser pointer.

Connectors and software are included for use either with the SensorDAQ™ and a Windows computer or with the TI-83/84 family of calculators and a CBL2 or LabPro.

RC Controller

Operates many—but not all—4-function vehicles

27 MHz RC Controller (Vehicle not included) Item # R0027-SDQ \$ 49.95

Compatible vehicle Item # A0100 \$ 24.95

Connectors and software are included for use either with the SensorDAQ™ and a Windows computer or with the TI-83/84 family of calculators and a CBL2 or LabPro.

Source Code License

Item # LV-SDQ-SC \$ 395.00

All products above come with executable software that allows flexible input of instructions in the language of LabVIEW's MathScript. Users wanting even greater flexibility in student projects or in developing their own activities should consider purchasing this license, which provides LabVIEW 8.2.1 source code for all 5 products and permission to use the code and derivative products on an unlimited number of computers in one K-12 school or one academic department at a college or university. Free upgrades to the source code are included for 3 years for those purchasers who contribute comments, suggestions or their own LabVIEW code for these later distributions.

Professional Development

Teacher workshops are available in 1-day, 2-day, 3-day, 5-day and 10-day formats. All workshops include make-and-keep apparatus. The 5-day and 10-day workshops include construction of the ACV (Algebraically Controlled Vehicle). Email workshops@mathmachines.net for more information.

Prices shown are for up to 5 identical items, assembled and with executable software for Windows 2000 or higher. Email fred.thomas@mathmachines.net for quotes on larger quantities, kits or other options. Payment may be made by Visa, Master Card, Discover, check or school purchase order. Allow 4 to 6 weeks for delivery. Sales tax will be added for non-tax exempt customers in Ohio. Standard shipping and handling within the US is 3% of the order, minimum \$8. International shipping at cost, plus \$5.

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Math Machines Order Form

Mail to: Learning with Math Machines, Inc., 1014 Merrywood Dr, Englewood, OH 45322, USA
 or fax to: 614-455-0856

Product ID	Description	Price	Quantity	Subtotal
SDQ4000	Algebraically Controlled Vehicle (also requires Vernier SensorDAQ)	\$595.00		
SDQ-RGB	RGB Color Mixer for SensorDAQ	\$89.95		
SDQ-SVP-A	Servo Pointer for SensorDAQ	\$149.95		
P0002-SDG	Pointer / Power Pulley (with connectors for LabPro, CBL2 and SensorDAQ)	\$199.95		
R0027-SDQ	27-MHz RC Controller (with connectors for LabPro, CBL2 and SensorDAQ)	\$49.95		
A0100	Compatible Vehicle for RC Controller	\$24.95		
LV-SDQ-SC	LabVIEW source code license for all products above	\$395.00		
Shipping and handling within the US is 3% of the order, minimum \$8. Shipments to Ohio must include sales tax at the rate in effect where the shipment is received unless you provide evidence of tax exemption. Allow 4 to 6 weeks for delivery.			Total amount	
			Shipping & handling	
			Ohio Sales Tax	
			Total amount due	

Payment Method: School Purchase Order Check to Learning with Math Machines

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Prices shown are valid through Dec. 31, 2009. For more information or for quotes on quantities of 5 or more, email: fred.thomas@mathmachines.net