

# R700

## Vector Robotic Arm

### The R700 Capabilities:

Programmable in C via open source WinAVR and RobotLoader software

Controllable from keyboard

Controllable via included RACS software

Memory playback of arm motion using RACS

Expandable via the I<sup>2</sup>C interface

Wireless control options available



### Features:

- Comes fully assembled
- 6 Degrees of Freedom
- ATMEGA64 Processor
- Various available I/Os
- I<sup>2</sup>C Bus
- Easy downloads with RobotLoader Software
- Easy control with keyboard or RACS Software
- Heavy gage aluminum chassis

### Overview:

The Vector Robotic Arm is high quality robot made of heavy gage aluminum. It is ideally suited to learn the basics of electronics, mechanics and programming. The Vector is controlled by a powerful ATMEGA64 microcontroller that is programmable via open source tools in C.

The robot comes with many example programs already written. Easily download them to the robot using the supplied USB interface and the RobotLoader software. Or write your own custom programs using the free open-source WinAVR software.

Control the robot using the included keyboard or RACS software. Using the software you can record the movements of the Vector and play them back.

The I/Os (in and outputs), together with the flexible I<sup>2</sup>C bus system, allow the addition of extra modules thus enabling the robot to react to its environment.

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Vector Robotic Arm comes with the following items:

Software CD with WinAVR, RobotLoader, and RACS.

Complete 64-page manual

Keyboard controller

USB connector cable

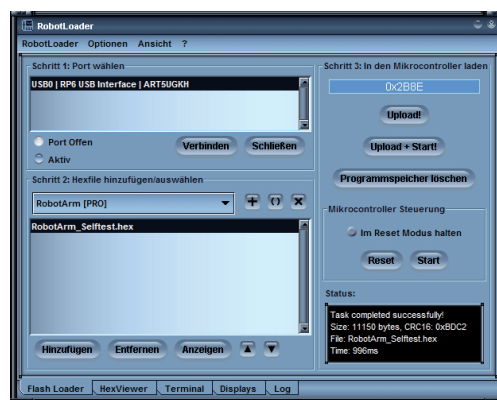
USB programmer interface

12V DC power supply

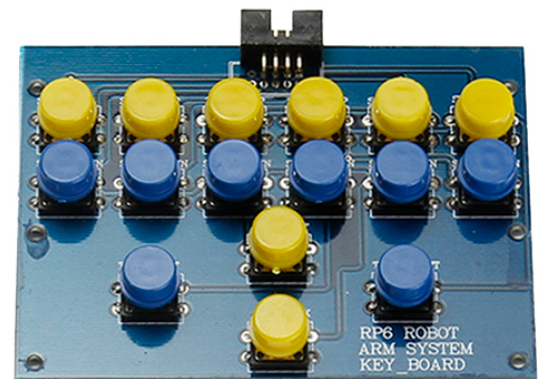
## Specifications:

Processor	ATMEGA64 8-bit microcontroller
Speed	16 MIPS
Memory	64KB Flash ROM, 4KB SRAM, 2KB EEPROM
Language	C
Expansion System	I <sup>2</sup> C Bus
Communication	USB Cable to PC, Wireless Options Available
Lifting Capacity	180 g
Arm Length	355 mm
Height (fully extended)	420 mm
Base Diameter	207 mm
Power Supply	12 V
Weight	2.6 lbs

Specifications subject to change without notice. Go to [globalspecialties.com](http://globalspecialties.com) for the latest update.



RobotLoader Software



Vector Keyboard



Innovative Training Solutions

[globalspecialties.com](http://globalspecialties.com)