

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 I²C interface

Wireless control options available



Features:

- Comes fully assembled
- 6 Degrees of Freedom
- ATMEGA64 Processor
- Various available I/Os
- I²C 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 I²C 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

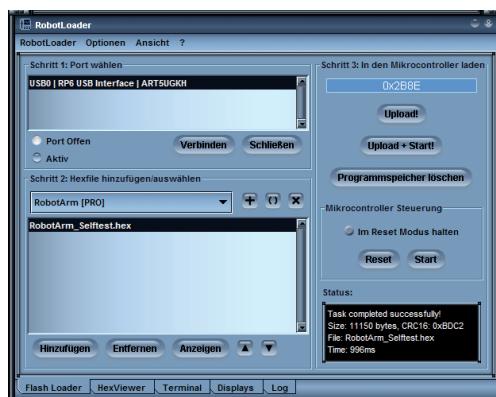
12V DC power supply



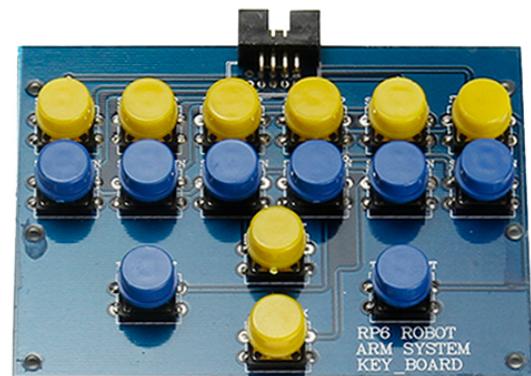
Specifications:

| | |
|--------------------------------|---|
| Processor | ATMEGA64 8-bit microcontroller |
| Speed | 16 MIPS |
| Memory | 64KB Flash ROM, 4KB SRAM, 2KB EEPROM |
| Language | C |
| Expansion System | I ² C Bus |
| Communication | USB Cable to PC, Wireless Options Available |
| 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 for the latest update.



RobotLoader Software



Vector Keyboard

