# **Clodbuster<sup>TM</sup>-III** Factsheet

### **Mobile Robot Base**

- Model typeRadio controlled (R/C) 1/10 scale 4x4x4 monster truck kit (4-wheel drive, 4-<br/>wheel steering and independent suspensions). Current model is <a href="https://www.tytel.com">TXT-1 Tamiya</a><br/>Extreme Truck.
- Manufacturer Tamiya Inc. (www.tamiya.com)
- **Dealer** Tower Hobbies online, hobby stores. Price \$369.99.

#### **Sensor Suite**

- Vision Folded Omnidirectional camera mirror assembly made with a Point Grey Research Firefly camera.
- Infrared12 Sharp GP2D02 IR sensors with 3 situated in each corner of the robot.Approximate price \$21.00 each.
- Accelerometer Dual Axis Accelerometer integrated into SPack Board
- **SPack Board** Custom built FPGA based sensor package board. The SPack board includes an integrated accelerometer, inputs for power, IR sensors and servos and a serial output connection. For detailed information about the SPack refer to the SPack Factsheet.
- PowerSanyo 2400 8 Cell 9.6V Nickel Cadmium battery pack supplies power to camera<br/>and the sensor board. Price \$56.95. Charger sold separately.

#### **Modular Onboard Computer**

<b>Current Computer</b>	Sony Viao <sup>®</sup> SR87
Processor/Memory	Pentium III 850 MHz with 256 MB memory
Communications	Integrated 802.11b Wireless LAN connectivity
Camera Interface	Integrated IEEE 1394 Firewire connection
OS	Windows XP
Low level software	Developed in-house using C++ and .Net

## **Clodbuster Accessories**

<b>Motor Battery</b>	Duratrax Piranha 1500 SCX 6-cell flat 7.2 V racing battery pack, other options
	available for longer life. Price \$15.

**Speed Control** Rooster reversible speed control replaces basic mechanical servo based speed controller that comes with the Clodbuster kit. Many other options possible.