

ATRV-Jr™ MOBILE ROBOT TECH SHEET

Talent runs in this family! RWI introduces the ATRV's husky little brother, ATRV-Jr™. This 7/10-scale look-alike offers many of the features and advantages of the larger robot, including four-wheel drive, differential steering, pneumatic 31.75 cm knobby tires, weather-resistant enclosure and RWI's rFLEX™ control interface.

Smaller, lighter and nimbler, though, the ATRV-Jr™ specializes in applications that require it to operate efficiently both indoors and outdoors. Depending on terrain, your ATRV-Jr™ will run for three to six hours without a break. And the ease, power and flexibility of RWI's Mobility™ Robot Integration Software lets you put your ATRV-Jr™ right to work.

Contact RWI at sales@rwii.com or call 603-532-6900 to configure an ATRV-Jr™ to best fit your needs.

ATRV-Jr™ MOBILE ROBOT SPECIFICATIONS

Sonar:	17 (5 front, 10 side and 2 rear facing)
Tactiles:	Optional Tactiles on Bumpers
CPU's:	Onboard Pentium II 350MHz
Communications:	Optional Wireless RS-232 or Ethernet
Batteries:	2 Lead Acid, 672W-hr total
Run Time:	3 to 6 Hours Terrain Dependent
Tires:	31.75cm 12.5"
Ground Clearance:	9.5cm 3.75"
Motor:	2 High Torque 24V DC Servo Motors
Motion Control:	RWI's rFLEX™ Control Architecture
Drive:	4-Wheel
Steering:	Differential
Turn Radius:	Zero (turns on center)
Translate Speed:	1m/s 3.3'/s
Rotate Speed:	120°/s
I/O Ports:	Joystick, RS-232, FARNET
Height:	55cm 21.6"
Length:	77.5cm 30.5"
Weight:	50kg 110lbs
Payload:	25kg 55.1lbs
Body:	Aluminum
Color:	RWI Red or Special
Safety:	Four Emergency Kill Button
Software:	Mobility™ Robot Integration Software
Warranty:	One Year Parts and Labor

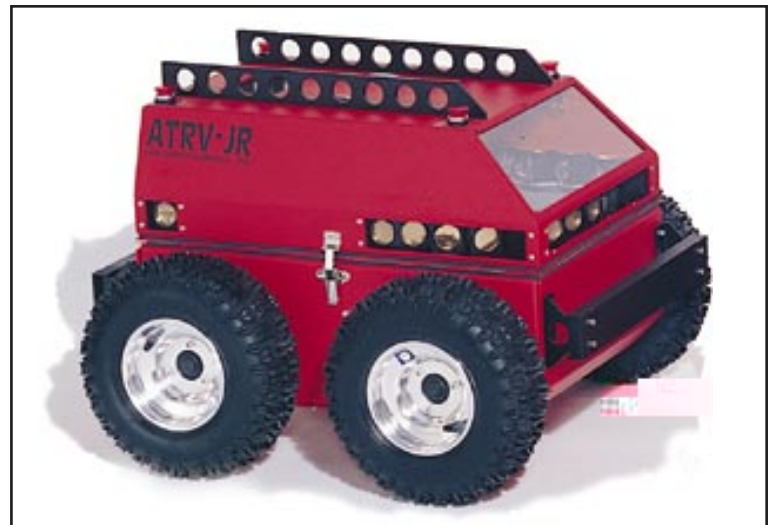
REAL WORLD INTERFACE

Robots for the Real World

A Division of IS Robotics, Inc.

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RWI's rFLEX™ CONTROL SYSTEM

Built around RWI's revolutionary new rFLEX™ robot control architecture, your ATRV-Jr™ guarantees you time-synchronized sensor and encoder readings and provides unprecedented flexibility and responsiveness in robot control. With its FARNET™ logical ring architecture; simple hub-and-node configuration; use of standardized, easily-available components and low network latency, rFLEX™ offers you an unprecedented degree of flexibility, speed and power in the development and modification of robot research projects and applications.

RWI's MOBILITY™ ROBOT INTEGRATION SOFTWARE

With RWI's Mobility™ robot integration software, there's never a need to scrap or rewrite your robot applications as your research evolves or as you acquire new hardware and new robot platforms. With Mobility's unprecedented level of code re-use, and RWI's dedication to providing full top-to-bottom integration in the robotics software development environment, you'll finally be able to concentrate on your projects and your research, rather than constantly re-writing application code and porting programs to work on new robots.

ACCESSORIES FOR ATRV-Jr™

- 1 to 3Mbps Wireless Ethernet Radios
- 56.7kbps Wireless Modems
- High Gain Antenna
- High Performance Stereo Vision System
- 3D Vision System
- Small Stereo Vision System
- Wireless Video System
- Camera and Frame Grabber Options
- Computerized Navigation Compass
- Inertial Navigation Sensor
- Absolute Orientation Sensor
- Laser Scanner
- ASCII to Speech Interfaces