

## CoroBot®

*Minimizing the complexity of robot development.*

Equipped with a PC-class CPU, CoroBot features expansive program storage space and CPU capacity to run additional software. CoroBot's design assists the hardware developer with additional physical mounting space, communication, and electrical inputs and outputs. Designed from the ground up with you in mind, CoroBot is a **capable**, **expandable**, and **affordable** way to meet your specific needs and requirements.



4WD Skid Steer Base

2WD Diff-drive Base



*Ordering options make customizing your CoroBot easy!*

- **Linux, Windows, and dual-boot operating systems available.**
- **Choose between a 4WD skid steer base or 2WD differential drive base.**
- **Add a Hokuyo® laser range finder.**
- **Upgrade to a pan/tilt camera.**
- **Optional arm and rear bumper sensor available.**

## Capable

The Windows® version of CoroBot comes with supporting C-language API, while the Linux® version comes with Player, allowing teleoperation right out of the box. Drivers and applications are provided in both source and executable form allowing for immediate usage as well as modifications and enhancements by the owner. CoroBot's camera, wheel encoders, optional laser range finder and bumper sensors enable your robot to examine the environment, while the optional 4 degree of freedom arm with gripper sensor enables your robot to easily interact with the environment. Want to add autonomy? CoroBot's processor has the room to handle localization and mapping algorithms, path planning, vision processing, learning algorithms and more. Rather than being limited by flash memory space CoroBot provides ample disk space to store maps, log files, learning databases and more.

## Expandable

Robot consumers often require features that go beyond what is provided by the manufacturer. CoroBot has an open-ended design allowing you to significantly extend its capabilities.

CoroBot's top deck provides ample mounting space for additional hardware components such as GPS, laser range finder, environmental sensors, and more. Interfacing to these added devices is made simple due to extra USB ports, I<sup>2</sup>C port, RS-232 serial port, 4 digital inputs, 8 digital outputs and 6 analog inputs. Open physical design allows easy access to connectors. CoroBot's processor is powerful enough to run additional user software. Supporting a 80GB disk drive, CoroBot has plenty of space to store data files, programs, source code, etc.

SPECS			
<b>Dimensions</b>	12"L x 13"W x 10"H (16"T w/ arm)	<b>Bumper Sensors</b>	Front (standard) Rear (optional)
<b>CPU</b>	1.5 GHz	<b>Voltage Sensor</b>	Yes
<b>RAM</b>	1 GB	<b>Arm Size</b>	14"L
<b>Disk Space</b>	80 GB	<b>Arm DOF</b>	4
<b>Wi-Fi</b>	802.11 b/g/n	<b>Gripper Span</b>	1.3"
<b>Battery</b>	10 AH	<b>Gripper Sensor</b>	Yes
<b>Battery Life</b>	2.5 Hours	<b>Arm Payload Capacity</b>	8 oz.
<b>Base Type/Steering</b>	Choice of 4WD skid steer or 2WD diff-drive	<b>Base Payload Capacity</b>	5 lbs.
<b>Camera</b>	High Quality 2 Megapixel Color Camera	<b>Windows®</b>	XP, Supporting C-language API
<b>Wheel Encoders</b>	Yes	<b>Linux®</b>	Ubuntu, Player
<b>Inputs/Outputs</b>	4 digital inputs, 8 digital outputs, 6 analog inputs	<b>Optional Pan/tilt Camera</b>	Yes
<b>Optional Laser Range Finder</b>	URG-04LX-UG01	<b>Max Speed</b>	1.5 ft. per second

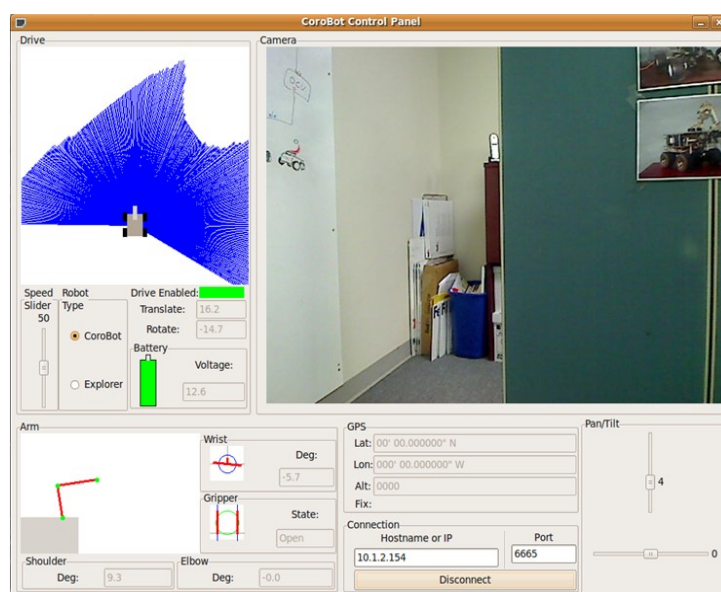
## Affordable

CoroBot offers a combination of features at a price lower than anyone else in the industry. This price difference becomes even more significant when multiple CoroBots are needed for activities such as swarming or classroom activities.



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