

Explorer

Minimizing the complexity of outdoor robot development.

Explorer was created to expand on the capabilities of CoroBot and deliver a rugged, indoor/outdoor robot that can withstand environmental elements such as dirt, dust, leaf debris, sand, gravel, and shallow puddles.

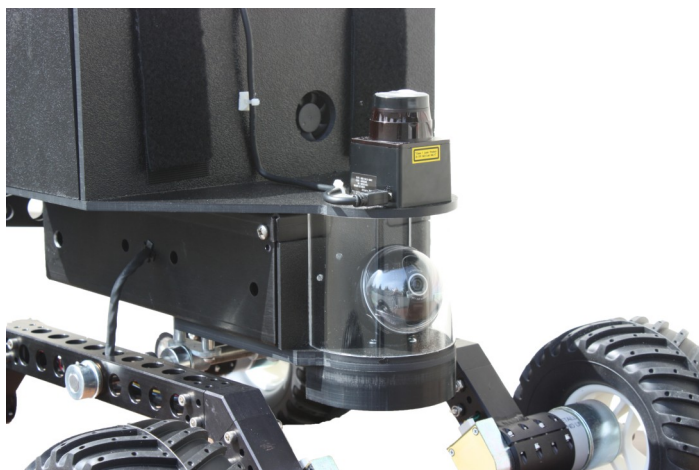
Equipped with a PC-class CPU, Explorer features expansive program storage space and CPU capacity to run additional software. Explorer's design assists the hardware developer with additional physical mounting space, communication, and electrical inputs and outputs. Designed from the ground up with you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



4WD Articulated Base

Capable

The Windows® version of Explorer 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. Explorer's camera, wheel encoders, optional laser range finder and bumper sensors enable your robot to examine the environment. Want to add autonomy? Explorer'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 Explorer provides ample disk space to store maps, log files, learning databases and more.



Ordering options make customizing your Explorer easy!

- **Your choice of Linux, Windows, or dual-boot operating systems.**
- **Add a Hokuyo® laser range finder. Indoor and outdoor models available.**
- **Upgrade to a pan/tilt camera.**

Visit us on the web to see video of Explorer navigating obstacles in the field.

Expandable

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

Explorer'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, I²C port, RS-232 serial port, 4 digital inputs, 8 digital outputs and 6 analog inputs. Open physical design allows easy access to connectors. Explorer's processor is powerful enough to run additional user software. Supporting an 80GB disk drive, Explorer has plenty of space to store data files, programs, source code, etc.

SPECS			
Dimensions	23"L x 21"W x 16"H	GPS	Yes
CPU	2.0 GHz	Voltage Sensor	Yes
RAM	1 GB	Base Payload Capacity	15 lbs.
Disk Space	80 GB	Windows®	XP, Supporting C-language API
Wi-Fi	802.11 b/g/n	Linux®	Ubuntu, Player
Battery	13 AH	Player/Stage	Yes
Battery Life	2.5 - 4 Hours	Sample Software	Yes
Base Type	Articulated 4WD	Steering	Skid
Obstacle Handling	Can clear 6" obstacles	Optional Pan/tilt Camera	Yes
Inputs	4 digital inputs, 6 analog inputs	Optional Laser Range Finder	Indoor (URG-04LX-UG01) Outdoor (UTM-30LX)
Outputs	8 digital outputs	Max Speed	1.5 ft. per second

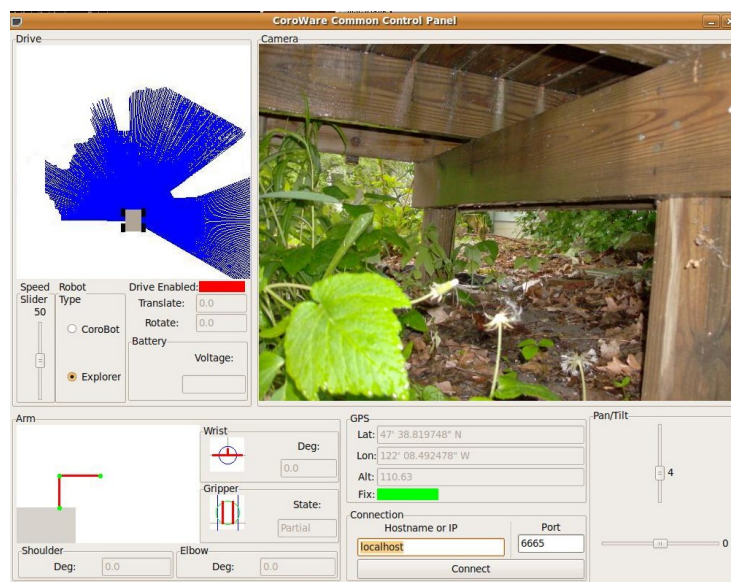
Affordable

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



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