

# HUSKY™

## UNMANNED GROUND VEHICLE



### RUGGED ALL-TERRAIN PERFORMANCE IN AN EASY-TO-USE PACKAGE

#### ENGINEERED FOR THE GREAT OUTDOORS

Husky is engineered to thrive in harsh outdoor environments. With a powerful 4x4 zero-maintenance drivetrain, rugged all-terrain tires and class-leading ground clearance, Husky will take your field robotics to new extremes.

#### BUILT UPON INDUSTRY TRUSTED SOFTWARE

Using Husky to program complex autonomous systems is simple with the open-source Robot Operating System (ROS). Rich demos and tutorials are provided to help you get started quickly and hassle-free.

#### DESIGNED FOR RAPID CUSTOMIZATION

When research changes, so should your hardware. Make changes to Husky quickly and easily with flexible payload mounting, easy to access 5/12/24V power and reconfigurable I/O. Mobile robot prototyping has never been faster or easier.

#### A FEW OF THE INNOVATIVE FIRMS WHO USE OUR ROBOTS



Massachusetts  
Institute of  
Technology

UNIVERSITY OF  
WATERLOO

Carnegie  
Mellon  
University

Georgia Institute  
of Technology



UNIVERSITY OF  
TORONTO



WPI

Contact us today for pricing and a free 30 minute technical assessment: 1-800-301-3863

# TECHNICAL SPECIFICATIONS



TOP



SIDE



FRONT



<b>DIMENSIONS</b> L x W x H	990 x 670 x 390 mm (39 x 26.4 x 14.6 in)	<b>OPERATING TIME</b>	3 hrs typ 8 hrs max	<b>ENCODERS</b>	78,000 pulses/mm Quadrature
<b>WEIGHT</b>	50 kg (110 lbs)	<b>DRIVE POWER</b>	1000 W Peak 400 W continuous	<b>FEEDBACK</b>	Battery Status Odometry
<b>PAYLOAD</b> A: all terrain; B: maximum	A: 20 kg (44 lbs) B: 75 kg (165 lbs)	<b>BATTERY</b>	A: 24 V 20 Ah Lithium Ion available	<b>CONTROL MODES</b>	Direct Voltage Velocity Wheel Speed Torque
<b>MAXIMUM SPEED</b>	1.0 m/s (2.3 mph)	<b>USER POWER</b>	5 V / 12V / 24V Fused @ 5A each	<b>DRIVERS/ APIs</b>	ROS Kinetic C++ Library Mathworks
<b>CLEARANCE</b>	130 mm (5 in)	<b>COMMUNICATION</b>	RS -232 115200 BAUD		

## SAMPLE APPLICATIONS

### MULTI-ROBOT SYSTEMS



Husky is designed with a **scalable and open architecture** making it the ideal platform for testing and developing multi-robot systems.

### PERCEPTION & NAVIGATION



**Improve state estimation** with tunable vehicle control parameters, high-resolution wheel odometry and full power system diagnostics.

### MOBILE MANIPULATION



Husky can easily **interface with** many small industrial **manipulators** for tele-operated or autonomous manipulation tasks.

### TELE-OPERATION



Husky comes ready for tele-operation **out-of-the-box**. Plug in your favourite wireless joystick and get started on day one.

## CONTACT US FOR MORE INFORMATION

**Clearpath Robotics Inc.**  
1425 Strasburg Road, Unit 2A  
Kitchener, Ontario  
N2R 1H2, Canada

**TEL: 1-800-301-3863**  
**FAX: 1-888-374-0091**  
**@: info@clearpathrobotics.com**  
**WEB: www.clearpathrobotics.com**

**Don't forget to find us online:**

