

# 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 open-source Robot Operating System (ROS) or National Instruments LabVIEW Robotics. 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. Making changes to Husky in a snap 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



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

# TECHNICAL SPECIFICATIONS



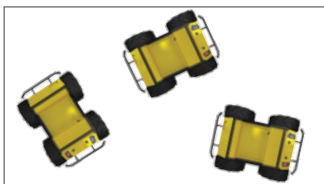
|  |   |
|--|---|
| <b>DIMENSIONS</b><br>L x W x H               | 990x670x390 mm<br>39x26.4x14.6 in       |
| <b>WEIGHT</b>                                | 50 kg<br>110 lbs                        |
| <b>PAYLOAD</b><br>A: All-terrain; B: Maximum | A: 20 kg / 44 lbs<br>B: 75 kg / 165 lbs |
| <b>MAXIMUM SPEED</b>                         | 1.0 m/s<br>3.3 ft/s                     |
| <b>CLEARANCE</b>                             | 130 mm<br>5 in                          |

|                       |                                   |
|-----------------------|-----------------------------------|
| <b>OPERATING TIME</b> | 3 hrs typ<br>8 hrs max            |
| <b>DRIVE POWER</b>    | 1000 W peak<br>400 W continuous   |
| <b>BATTERY</b>        | 24V 20 Ah<br>Sealed Lead Acid     |
| <b>USER POWER</b>     | 5V / 12V / 24V<br>FUSED @ 5A each |
| <b>COMMUNICATION</b>  | RS-232<br>115200 BAUD             |

|                      |   |
|----------------------|---|
| <b>ENCODERS</b>      | >200,000 pulse/m<br>QUADRATURE                      |
| <b>FEEDBACK</b>      | BATTERY STATUS<br>ODOMETRY                          |
| <b>CONTROL MODES</b> | DIRECT VOLTAGE<br>VELOCITY<br>WHEEL SPEED<br>TORQUE |
| <b>DRIVERS/APIs</b>  | ROS<br>MOOS-IvP<br>LabVIEW<br>Python                |

## 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

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