

# JACKAL™

## UNMANNED GROUND VEHICLE



### READY TO GO RIGHT OUT OF THE BOX.

Jackal's onboard PC comes preloaded with ROS packages so you can get started quickly. Deploy demonstrations, share code between users or create your own applications. With wireless connectivity via Bluetooth and wifi, Jackal's ready to go as soon as you turn it on!

### MADE FOR THE GREAT OUTDOORS.

Jackal's IP62 waterproof casing is a sturdy metal chassis made entirely from lightweight aluminum alloy. The high torque 4x4 drivetrain gives Jackal maximum traction, while up to 500 watts of onboard power are available to maneuver out of the toughest situations.

### SMALL SIZE, BIG CAPABILITY.

Swap payloads off Jackal's customizable top plate for optimized field tests. With plug and play capability, utilize the 5, 12 and 24 V ports, and easily open the lid to access the onboard computer. Additionally, users Receive end-to-end visibility of Jackal's operation with the comprehensive ROS API.

#### 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

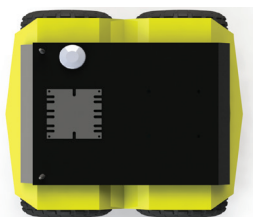


Contact us today for pricing and a free 30 minute technical assessment: **1-800-301-3863**

# TECHNICAL SPECIFICATIONS



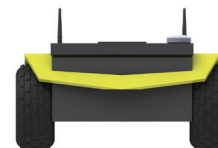
TOP



SIDE



FRONT



<b>DIMENSIONS</b> L x W x H	508 x 430 x 250 mm 20 x 17 x 10 in	<b>OPERATING TIME</b>	2 hrs maximum 8 hrs typical	<b>COMMUNICATION</b>	ETHERNET, USB 3.0, RS232, IEEE 1394 avail.
<b>WEIGHT</b>	17 kg 37 lbs	<b>DRIVE POWER</b>	500 W	<b>DRIVERS/APIs</b>	PACKAGED WITH ROS INDIGO
<b>PAYLOAD</b> A: all terrain; B: maximum	A: 10 kg / 22 lbs B: 20 kg / 44 lbs	<b>BATTERY</b>	270 Watt hours Lithium Ion	<b>CONTROL MODES</b>	OPEN-LOOP WHEEL VELOCITY KINEMATIC COMMANDS
<b>MAXIMUM SPEED</b>	2.0 m/s 6.6 ft/s	<b>ENCODERS</b>	78,000 pulses/m QUADRATURE	<b>FEEDBACK</b>	BATTERY+MOTOR CURRENT WHEEL VELOCITY INTEGRATED GPS, GYROSCOPE AND ACCELEROMETER
<b>CLEARANCE</b>	65 mm 2.6 in	<b>USER POWER</b>	5 V @ 5A 12V @ 10A 24V @ 20A		

## SAMPLE APPLICATIONS

### MULTI-ROBOT SYSTEMS



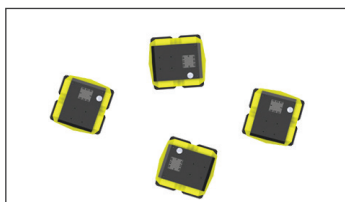
Jackal is engineered with a **scalable and open architecture** making it the ideal platform for testing and developing multi-robot systems.

### PERCEPTION & NAVIGATION



Get your research rolling faster with **camera, GPS and laser packages**, all of which include documented libraries and programming examples.

### LAB TEACHING TOOL



Jackal is **lightweight, compact and easy to program** - the perfect platform to help build courseware that students will be excited about!

### ENVIRONMENTAL MONITORING



Configure Jackal for **teleoperation or autonomy in outdoor applications**. The weatherproof, rugged chassis makes it ideal environmental monitoring.

## CONTACT US FOR MORE INFORMATION

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Don't forget to find us online:

