JACKAL™
UNMANNED GROUND VEHICLE

CLEARPATH ROBOTICS™

SMALL. FAST. RUGGED.
DRIVE RESEARCH FORWARD

READY TO GO RIGHT OUT OF THE BOX

With an on-board computer, GPS and IMU fully integrated with ROS, Jackal has out-of-the-box autonomous capability. With wireless connectivity via Blue-tooth and WiFi, Jackal is ready to go as soon as you turn it on!

MADE FOR THE GREAT OUTDOORS

Jackal's chassis is made entirely from welded aluminum and provides IP65 protection when the main bulkhead is sealed (optional). The high torque 4x4 drivetrain gives Jackal maximum traction, with enough on-board power available to traverse obstacles or unconsolidated terrain.

SMALL SIZE, BIG CAPABILITY

Swap payloads off Jackal's customizable mounting plate. As with all Clearpath robots, Jackal is compatible with many robot accessories to quickly expand your research and development. 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 · Cal · UNIVERSITY OF TORONTO · WPI
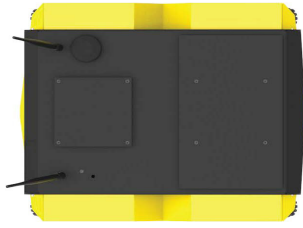
Contact us today for pricing and a free 30 minute technical assessment: **1-800-301-3863**

TECHNICAL SPECIFICATIONS

TOP	SIDE	FRONT

DIMENSIONS L x W x H	508 x 430 x 250 mm 20 x 17 x 10 in	**OPERATING TIME**	2 hrs maximum 8 hrs typical	**COMMUNICATION**	Ethernet, USB 3.0, RS232, IEEE 1394 avail.
WEIGHT	17 kg 37 lb	**DRIVE POWER**	500 W	**DRIVERS/APIs**	Packaged with ROS Kinetic, Mathworks
PAYLOAD A: all terrain; B: maximum	A: 10 kg / 22 lb B: 20 kg / 44 lb	**BATTERY**	270 Watt hours Lithium Ion	**CONTROL MODES**	Open-loop Wheel Velocity Kinematic Commands
MAXIMUM SPEED	2.0 m/s 6.6 ft/s	**ENCODERS**	78,000 pulses/m Quadature	**FEEDBACK**	Battery+Motor Current Wheel Velocity Integrated GPS, Gyroscope and Accelerometer
CLEARANCE	65 mm 2.6 in	**USER POWER**	5V @ 5A 12V @ 10A Vbat (24V Norm) @ 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 for environmental monitoring.

CONTACT US FOR MORE INFORMATION

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