



CLEARPATH
ROBOTICS™

Quote Date: July 8, 2020
Valid Until: August 7, 2020
Prepared By: Mike Poulin *mpoulin@clearpathrobotics.com*

Seller: Clearpath Robotics, Inc.
 1425 Strasburg Road Unit 2A, Kitchener, Ontario, N2R 1H2
 Tel: 1 (800) 301-3863 x939 / Fax: 1 (888) 374-0091
 www.clearpathrobotics.com

Title: BOS04 - Jackal + Sensors

QUOTE: BOS04 - 02

Ship to: Boston University

Customer: Boston University

ID	Part #	Description	Qty	Price	Ext Qty
Robot Hardware					
1	006510	Jackal J100 Robotic Research Platform Specifications: On-Board Computer with WIFI, Bluetooth wireless Game Controller, GPS, IMU, Li-Ion Battery, Battery Charger, Sensor Mounting Plates, 17 kg mass, 20 kg max payload, 508 x 430 x 250 mm overall dimensions, 2 m/s (7.2 km/h) max speed, IP62 rating, -20 C to 45 C operating temperatures range. 5/12/24 V regulated power available, ROS preinstalled. Requires Jackal Basic or Upgrade computer system	1	\$ 11,750	\$ 11,750
2	040990	Jackal Discount: Academic Specifications: Discount for qualified academic researchers & educators	1	\$ (1,000)	\$ (1,000)
3	042000	Jackal Computer: Ultra Upgrade Specifications: Intel i7-9700, Coffee Lake 8 Core processor. 3.0GHz (4.7 GHz Turbo), 65W. 32GB DDR4-3600 RAM. 500GB SSD Samsung M2. Motherboard: Ethernet, 2x USB 3.1, integrated intel 802.11ac WiFi + BT 4.2, 2x Gigabit LAN, 6x USB (5x Type-A 1x Type-C), Supports DDR4 4000MHz, 140W Logic Supply Power Supply Unit. (or similar) NOTE: This upgrade will reduce the "run time" of the Jackal UGV, and If "Mini ITX GPU Upgrade" is added, then this upgrade is not compatible with FireWire Cards.	1	\$ 2,775	\$ 2,775
4	013951	Jackal Computer: Mini ITX GPU Upgrade Specifications: Adds a Geforce GTX 1050 Ti to the Mini ITX computer. 4GB GDDR5 RAM, PCIE 3.0. Includes system integration and mounting	1	\$ 575	\$ 575
5	007192	Jackal: Extra Lithium Ion Battery Specifications: 24V, 270 Watt-hour, Lithium Ion battery pack	2	\$ 550	\$ 1,100
6	006758	Camera - AXIS Outdoor PTZ Specifications: AXIS, 1920x1080 (Max) @ 25 fps, 1/2.8" CMOS sensor (progressive scan), IP66 enclosure, full pan/tilt, 10x optical zoom, PoE, 1.1 kg (2.4 lb). Vehicle mounting and wiring included	1	\$ 2,450	\$ 2,450
7	011703	LiDAR 3D - Velodyne VLP-16 (Recommended) Specifications: 360° x 30° FOV, 16 channel, 100+ m range, dual return, 300,000 points per second. Vehicle mounting and wiring included.	1	\$ 6,500	\$ 6,500
8	016366	Camera Stereo - Stereolab Zed Specifications: 120mm baseline, 0.5-20m range. Up to 2.2K resolution at 15 FPS. 110deg FOV, f/2. USB3. NOTE: Requires a GPU to work fully.	1	\$ 525	\$ 525



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Shipping					
9	048000	DDP Incoterms 2010 North America - Shipping address as specified Specifications: Includes packaging, handling, insurance, freight, customs brokerage, import duties & taxes.	1	\$ 750.00	\$ 750.00

Integration Notes

< Section for notes about the configuration or layout or custom features or custom hardware >

Total \$ 25,425

Payment Terms & Notes

- 1) 50% payable upon signed quote, 50% Due Net 30 Days OAC upon Delivery (Credit preapproved).
- 2) All prices are in American Dollars. All payments due in American Dollars.
- 3) Estimated time to ship 12 weeks after receipt of order (ARO) and receipt of acceptable End Use Certificate, if required. Subject to 3rd party component availability and length of work queue at time of receipt of P.O.
- 4) Clearpath Robotics Inc. Terms and Conditions of Sale apply to this quotation and govern the legal relationship between Buyer and Seller.
[Terms and Conditions are located at this link.](#)
- 5) Unless otherwise specified, price does not include any applicable duties, taxes, or any import/export related costs for which the Buyer is solely responsible.
- 6) A 3% processing fee will be added to all credit card purchases over US\$5,000
- 7) HST or GST will be charged to all Canadian customers over and above the costs shown in this quote.
- 8) We reserve the right to cancel your Purchase Order without liability in the event that an Export Permit (if required) is not granted or is revoked
- 9) Destination of Goods will be the address shown on the face of this Quotation. Diversion, re-direction, or re-shipment of Goods by Buyer contrary to U.S. and Canadian Export Control laws is prohibited.

Agreed to and Accepted by:

Authorized Signature

Date

Print Name

Title