



CLEARPATH ROBOTICS™

Quote Date: October 21, 2015
Valid Until: November 20, 2015
Prepared By: Tim Peckover *tpeckover@clearpathrobotics.com*

Seller: **Clearpath Robotics, Inc.**
 1425 Strasburg Road Unit 2A, Kitchener, Ontario, N2R 1H2
 Tel: 1 (800) 301-3863 x853 / Fax: 1 (888) 374-0091
 www.clearpathrobotics.com

Title: Husky UGV and Sensors

QUOTE: UAF02-04

Ship to: **ACUASI**
 University of Alaska, Fairbanks
 3330 Industrial Ave
 Fairbanks, AK
 USA 99701
 Attn: Michael Hatfield

Customer: **ACUASI**
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 3330 Industrial Ave
 Fairbanks, AK
 USA 99701
 Attn: Accounts Payable

ID	Part #	Description	Qty	Price	Ext Qty
Robot Hardware					
1	004000	Husky A200™ UGV Robot Base Specifications: Husky A200 UGV chassis (1), payload mounting framework (1), onboard microcontroller (1), encoders (2), current and voltage sense package (1), temperature diagnostics package (1), 24V 20Ah SLA battery pack (1), battery charger (1).	1	\$ 18,625.00	\$ 18,625.00
2	10001006	Academic/Marketing Discount: Available upon commitment by customer to provide required support to develop one (1) case study to Clearpath Robotics and provide video content, pertaining to the use of Clearpath's products in the customer's ongoing robotics work. It is acknowledged that the case study will be used by Clearpath in perpetuity as collateral to market Clearpath's products. The case study must be completed within 12 months of the purchase and final release of the case study by Clearpath and will not include any customer or project information that has been identified as confidential.	1	\$ (4,125.00)	\$ (4,125.00)
3	007060	Husky A200™ Lithium Battery Upgrade Specifications: Lithium Battery Upgrade is a Clearpath designed removable 40Ah high density pack designed to work in place of the standard 20Ah lead acid battery in the vehicle battery bay. Increases vehicle run time to 4 hours or greater depending on operating conditions.	1	\$ 4,700.00	\$ 4,700.00
4	002233	Husky A200™ UGV Top Plate Specifications: 1/4" aluminium top plate to mount sensing and computing payloads.	1	\$ 480.00	\$ 480.00
5	006756	Husky A200™ Shore Power Upgrade Specifications: Installation of a 500W AC-DC power supply within Husky chassis to provide external energy sources to power vehicle and payloads. Includes modification of Husky MCU, the addition of 120 VAC receptable to robot front plate, addition of direct tap from Husky battery, and an auxilliary e-stop tie-in.	1	\$ 1,020.00	\$ 1,020.00
6	10001009	Husky A200™ Improved Weather Resistance Upgrade Specifications: Modification of Husky to increase weather resistance to greater than or equal to an IP55 rating. Require basic tools for removal of battery pack post-modification. Incorporates an external charge port to allow for charging without battery removal.	1	\$ 4,895.00	\$ 4,895.00

Robot Sensors



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7	001976	Open IMU Specifications: Three axes, $\pm 3g$ acceleration, $\pm 400^\circ/\text{sec}$ gyro range, ARM Cortex processor, open firmware, serial interface, wall-power supply included API. Vehicle mounting and wiring included.	1	\$ 530.00	\$ 530.00
8	10002026	NovAtel SMART6-L L1 Basic Rover Unit Specifications: GPS mobile unit, L1 Code, 1.5m positioning, DGPS, SBAS, GL1DE, 5Hz output. Baseline unit, firmware can be upgraded to enable additional L-Band, RTK capabilities	1	\$ 1,580.00	\$ 1,580.00
9	006758	Outdoor PTZ Camera Specifications: 704x480 @ 30 fps, 1/4" CCD sensor, IP66 enclosure, full pan/tilt, 12x optical zoom/4x digital zoom, PoE (midspan included), 1.2 kg (2.6 lb), removable IR-cut filter. Vehicle mounting and wiring included	1	\$ 2,450.00	\$ 2,450.00
10	10002025	Velodyne VLP-16 3D Laser Scanner Specifications: $360^\circ \times 30^\circ$ FOV, 16 channel, 100+ m range, dual return, 300,000 points per second. Vehicle mounting and wiring included.	1	\$ 10,850.00	\$ 10,850.00
11	005049	Mini-ITX Singleboard Computing System Specifications: Low power mini-ITX form factor, 2.7 GHz Intel i5-4570TE, 8 GB RAM, 120 GB SATA2 SSD, 2x RS-232, 10x USB 2.0, 2x GigE, PCI Express, 120W power supply, Wi-Fi adapter. Wireless gamepad included. ROS/Ubuntu configuration included. Vehicle mounting and wiring included.	1	\$ 2,350.00	\$ 2,350.00
12	000872	Long range broadband communication transceiver Specifications: 2.4 GHz broadband Ethernet/serial gateway, 54 Mbps, WEP/WPA encryption, mesh/point-to-point/point-to-multipoint support, 1+ km LOS range. Vehicle mounting and wiring included.	1	\$ 1,500.00	\$ 1,500.00
13	006713	5 Port Network Switch Specifications: 5 port switch with QOS and VLAN features. Vehicle mounting and wiring included.	1	\$ 115.00	\$ 115.00

Warranty



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14	10060001	3-year comprehensive support - Husky Specifications: 3 Year Term Extended Warranty – Covers parts, Workmanship, and Labor. Priority access to Clearpath Customer Success Network & Product Support Team. 48 hour response to inquiries. Refer to Section 7 of the Terms and Conditions of Sale	1	\$ 3,730.00	\$ 3,730.00

Shipping					
15	10090001	DDP Incoterms 2010 North America - Shipping address as specified Specifications: Includes packaging, handling, insurance, freight, customs brokerage, import duties & taxes.	1	\$ -	\$ 1,200.00

Total \$ 49,900.00

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 8 to 10 weeks ARO (After Receipt of Order), subject to 3rd party component availability and length of work queue at time of receipt of P.O.
- 4) Terms and conditions attached govern legal relationship of Customer and Seller.
- 5) Unless otherwise specified, total does not include any applicable duties, taxes, or any import/export related costs. Buyer is solely responsible.

Agreed to and Accepted by:

Authorized Signature

Date

Print Name

Title