


Caveatron Bill of Materials – 25m LIDAR Unit

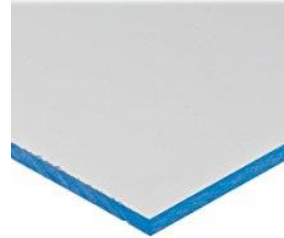
Date: 2018-03-06

Item	Qty	Manufacturer	Mfr. P/N	Description	Suggested Vendor Link	Photo
LIDAR	1	Scanse	N/A	Sweep	Sparkfun	

Notes: *Scanning LIDAR sensor.* Operates on 5V so separate voltage regulator not required. Also available from RobotShop and Acroname.

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LIDAR Rail Mounts	1	Weaver	49819	0.22 Caliber 1-inch Tip-Off Rings	Amazon	
Notes: <i>Parts for making the rail mounts.</i> The top ring portion is cut off making a flat top and two threaded holes are machined into each ring base for attachment to bottom of LIDAR module enclosure.						
LIDAR Interface Jack	1	Conxall/ Switchcraft	16982- 6PG-522	Micro-Con-X 6 Position Circular Connector Plug, Male Pins Solder Cup Gold	Digikey	
Notes: <i>Jack for LIDAR interface cable.</i> Available from multiple vendors.						

Item	Qty	Manufacturer	Mfr. P/N	Description	Suggested Vendor Link	Photo
Window Material	1	Small Parts	50649812 12	Acrylic Sheet, Transparent Clear, 0.06" Thickness, 12" Width, 12" Length	Amazon	
Notes: <i>Transparent acrylic sheet for Rangefinder window on Main Body and LIDAR windows on LIDAR Module.</i> Requires cutting to size. Acrylic seems to be the most transparent with the least distortion and defects of the various clear plastics tested, which is important for not interfering with the LIDAR and rangefinder readings.						

Assorted Fastener Hardware: Screws, Washers, and Nuts
Notes: <i>For assembly.</i> Several sizes of standard hardware required. To be detailed in assembly instructions.
Assorted Electrical Hardware: Wire and JST Connectors.
Notes: <i>For electrical interconnections between boards.</i> To be detailed in assembly instructions.