



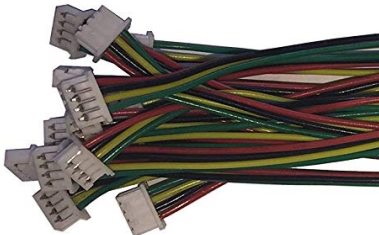


Caveatron Bill of Materials – 12m RP LIDAR Unit

Date: 2019-03-19

Item	Qty	Manufacturer	Mfr. P/N	Description	Suggested Vendor Link	Photo
LIDAR	1	Slamtec	RPLIDAR A1M8	LIDAR 360 Degree Laser Range Scanner	RobotShop	
Notes: Scanning LIDAR sensor. Other models that may also work but have not been tested include RPLIDAR A2M6, A2M8, and A3M1.						
Voltage Regulator – Adjustable	1	Pololu	2118	Pololu Adjustable Step-Up/Step-Down Voltage Regulator S7V8A	Pololu	
Notes: Power supply for Laser Rangefinder. Output is set so that the LIDAR is rotating at about 5 Hz RPM (300 RPM). The voltage is typically set to about 3.68 V.						

[illegible]

Item	Qty	Manufacturer	Mfr. P/N	Description	Suggested Vendor Link	Photo
O-Ring Gasket Material	1	Small Parts	S70.093	.093" (3/32" Actual) Silicone O-Ring Cord Stock, 70A Durometer, 0.093" Thickness	Amazon	
Notes: Seal gasket for LIDAR lid.						
JST Connector for LIDAR Motor	1	Various	N/A	JST 1.25mm pitch, 3 pin, male connector	Amazon	
Notes: Connector for LIDAR Motor.						
JST Connector for LIDAR Sensor	1	Various	INM2504	JST 1.25mm pitch, 4 pin, male connector	Amazon	
Notes: Connector for LIDAR Sensor						
M4 x 12 Screws for Lid, Hook up wire, 4 conductor cable to connect LIDAR to main enclosure						
Notes: For assembly and electrical interconnections						