




Caveatron Bill of Materials – 12m RP LIDAR Unit

Date: 2019-02-12

[illegible]

Item	Qty	Manufacturer	Mfr. P/N	Description	Suggested Vendor Link	Photo
Window Material	1	Small Parts	5302441212	Acrylic Sheet, Transparent Clear, Standard Tolerance, ASTM D788, 0.118" Thickness	Amazon	
Notes: <i>Transparent acrylic sheet for LIDAR windows on 3D Printed 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. This is a thicker window than is used on the Main body since it is used in the 3D printed enclosure as a structural piece as well. If a different enclosure design is used, the thinner material could be used instead.						
Threaded Inserts for LIDAR Standoffs	1	Initeq	INM2504	M2.5-0.4 M2.5 Threaded Heat Set Inserts for 3D Printing (Long)	Amazon	
Notes: <i>Heat set threaded inserts used in 3D printed LIDAR enclosure for LIDAR standoffs.</i> The standoffs that screw into these are included with the RPLIDAR.						
Threaded Inserts for Enclosure Lid	1	Small Parts	STPVC-0093-F	Qty 20 M4-0.7 Threaded Heat Set Inserts for 3D Printing (Long)	Amazon	
Notes: <i>Heat set threaded inserts used in 3D printed LIDAR enclosure for lid screws.</i>						

