Purchase List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Name | Note | Link | Purchased? |
| 1. | Fiber laser source |  | $25  https://www.amazon.com/Aluminium-Detector-Universal-Connector-Telecommunications/dp/B01I3D4DNA/ref=sr\_1\_11?dchild=1&keywords=Fiber+laser+30&qid=1616357775&sr=8-11 |  |
| 2 | Solder kits |  | Acquired | Yes |
| 3 | Testing Cardboard paper |  | I bought it from Walmart store  https://www.walmart.com/ip/Pen-Gear-White-Poster-Board-Paper-22-x-28-1-Sheet/835742797 |  |
| 4 | Jumpers |  | Acquired | Yes |
| 5 | Power Supplied |  | Acquired. | Yes |
| 6 | Fiber Mating Sleeves | Get these two | <https://www.amazon.com/gp/product/B00FY8GTGW/ref=ox_sc_act_title_2?smid=AV7B8H0WDXA7N&psc=1>  <https://www.amazon.com/gp/product/B00FX3W4TO/ref=ox_sc_act_title_1?smid=AV7B8H0WDXA7N&psc=1> |  |
| 7 | Single Mode Fiber | 5m | <https://www.thorlabs.com/thorproduct.cfm?partnumber=P1-SMF28Y-FC-5> |  |
| 8 | RS232 Cable | 6 feet or 10 feet | <https://www.amazon.com/gp/product/B077BT2XVL/ref=ox_sc_act_title_4?smid=A3CTP98AJZAENL&psc=1> |  |
| 9 | Oscilloscope |  |  | Yes |
|  | 3/16 Hex Driver  4/40 Hex Driver |  |  |  |

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| No. | Name | Note | Connected to | Picture | |
| **1c** | Arduino Mega + TDC+ Comparator |  |  |  | |
| **2c** | MEMS Scanner head with tripod adaptor + VN100 IMU |  | B4 Fiber  B1 Arduino for MEMS driver |  | |
| **3c** | Tripod adaptor |  |  |  | |
| **4c** | 50-1550A fiber collimator |  | B2 Collimator alignment holder |  | |
| **5c** | MEMS Mirror PCB packages x2 | 3m length and 5m length |  |  | |
| **6c** | Laser and Power supply |  |  |  | |
| **7c** | APD and lens |  |  |  | |
| **8c** | IR card |  |  |  | |
| **9c** | Screw drivers and Ruler |  |  |  | |
| **10** | Signal Cables |  |  |  | |
| **11c** | Safety goggle |  |  |  | |
| **12c** | USB cables |  |  |  | |
| **13c** | AWG wires (2) |  |  |  | |
| **14** | Drone Adaptor |  |  |  | |
| **15c** | Fiber Mating Sleeves x2 |  |  |  | |
| **16c** | USB to UART serial |  |  |  | |
| **17c** | RS232 to USB(for debug) |  |  |  |