**Pre-Dive Checklist**

**Materials To Bring…**

Laptop Map of Dive Site Tie Wraps Paper/Pencils

 Batteries GoPro(s) Duct Tape Flashlight

 Memory Card(s) Sony Camera Electrical Tape Multi-Tool

**Inspection…**

* Check that memory cards are present, have proper capacity, and have available space.
* Check that propellers aren't damaged.
* Check that components are secure and no damage is present.
* Insert batteries and battery adapters (if using LI-FePO4).
* Using a digital multimeter, measure the voltage across each battery tube at the DB-25 connector. You should have around 12 volts.
* Close E-tube and pull o-rings back up from under electronics tube and attach them to the hooks above it to hold it in place.
* Check that o-rings are seated properly in E-Tube and battery tube
* [Unspool tether and put on a holder](http://openrov.dozuki.com/Guide/Prepare%2Ba%2BTether%2BManagement%2BSystem/5) and check for nicks and scrapes. Do not use if tether compromised.
* Spray DC brushless motors with silicone (Recommended)
* Weight ROV on front threaded rod with fishing weights
* Check that plungers are in the E-Tube
* Test connection to ROV with a PC. If connection fails, verify all PCBs are pushed together tightly
* Check lights…low / medium / high / on / off
* Check video signal
* Check lasers…turn off / on
* Check camera… pan / tilt / zoom (as appropriate)
* Check Heads Up dashboard if you have an IMU
* Use keyboard and cockpit to test motors
* Put your ROV in the water
* Verify Neutral Buoyancy
* Drive ROV… forward / backward ; turn to port (left) / starboard (right); ascend / descend
* Turn camera servo up and down, verifying PC video stream
* Dive to 1m and hold depth
* **Leak check after 1 minute in the water**

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Time: \_\_\_\_\_\_\_\_**