OXTS

Mobile Mapping
Installation Checklist

- Name: _____
- Date: _____

1. Hardware and components

Do you have...

- ☐ GNSS/INS
- ☐ LiDAR (or other sensor)
- ☐ GNSS antenna(s)
- ☐ External data logger
- ☐ Mounting system
- ☐ Correct cables
- ☐ Vibration dampening
- ☐ Power source
- ☐ Tape measure

2. Platform readiness

- ☐ Does your platform have stable, rigid mounting points for your sensors?
- ☐ Can your platform power all required sensors, or do you need an external source?
- ☐ Do you need converters or backup batteries?

3. Hardware configuration

- ☐ Install NAVconfig on your computer
- ☐ Connect your GNSS/INS and follow the step-by-step guide to configure your unit
- ☐ Input lever arm measurements:
  - ☐ GNSS antenna to IMU
- ☐ Configure your LiDAR/other sensors according to the manufacturer's handbook

4. Mounting and connecting

- ☐ Mount your GNSS/INS
- ☐ Mount your LiDAR or other sensor
- ☐ Mount your GNSS antenna(s)
- ☐ Connect your sensors to each other
- ☐ Connect your sensors to a data logger (if you're using one)
- ☐ Label connections for ease of reference later

***Ensure hardware configuration is accurate. Failure to do so, could cause issues at a later stage.**

5. Data and computing system

- ☐ Verify you have enough onboard storage capacity for your survey
- ☐ Verify data write speeds to make sure they match up with the data output rate (typically 100hz but can be up to 250hz)
- ☐ Verify firmware versions across devices and update if necessary
- ☐ If using correction services, confirm subscriptions and base station access
- ☐ Install and test NAVdisplay for real time data visualisation, and any other software your project requires
- ☐ Set file naming conventions, logging intervals, LiDAR scan rate and similar parameters

6. Operational and safety checks

- ☐ Confirm all equipment and data gathering is compliant with local regulations
- ☐ Define a test run route that confirms all equipment is operating to the required level
- ☐ Perform a boresight calibration to calibrate LiDAR and INS coordinate frames
  - ☐ If required, use dedicated boresight calibration tagets (see OXTS support guide for more details)

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