

```

      XXXX      XXXX
IIIIII  X  XX  XX  X  L      DDDD      AAAA      RRRRR
  I      X      X      X  L      i  D      D      A      A      R      R
  I      X      X      X  L      D      D      A      A      R      R
  I      XX      XX      XX  L      i  D      D      AAAAAA  RRRRR
  I      XX      XX      XX  L      i  D      D      A      A      R      R
  I      XX  XX  XXX  L      i  D      D      A      A      R      R
IIIIII      XXXX  LLLLLL  i  DDDD      A      A      R      R
              X

```

OpenMMS – Typical Data Collection Checklist (Version 1.3)

Note: the following steps assume that the OpenMMS sensor has been configured exactly as presented within the project documentation.

- 1. Attach the GNSS antenna arms and coaxial cables to the sensor.
- 2. Ensure a 12V – 26V power supply is connected to the sensor’s XT-60 connector.
- 3. Power ON the sensor:
 - a. Latch the POWER pushbutton and wait for STATUS LED to flash Red, Green, Blue.
 - b. Roll the Sony A6000 camera power switch to the ON position, remove the lens cap.
 - c. Latch the NAV pushbutton.
- 4. Keep the sensor stationary and wait for the GNSS LED to flash at a rate of 1 Hz.
- 5. IF REQUIRED, perform a magnetometer calibration.
- 6. Ensure adequate data storage is available on the OpenMMS sensor.
- 7. Ensure the camera interval time and video recording settings are correct.
- 8. Format the Sony A6000 camera’s SD card using the camera’s menu feature.
- 9. Initialize the INS sensors to achieve an aligned solution, INS LED will flash at 1 Hz.
- 10. Start lidar and/or photo data collection using the INPUT pushbutton.
- 11. Collect digital mapping data over the project area.
- 12. Stop lidar and/or photo data collection using the INPUT pushbutton.
- 13. Unlatch the NAV pushbutton to stop GNSS-INS data collection.
- 14. Roll the Sony A6000 camera power switch to the OFF position, reinstall the lens cap.
- 15. Remove the Sony camera’s SD card and download the images to a computer, then reinstall the SD card back in the camera.
- 16. Latch the NAV pushbutton again.
- 17. Connect to the APX-18’s WebUI and download the correct .T04 file to a computer.
- 18. Unlatch the NAV pushbutton one more (and final) time.
- 19. Connect to the OpenMMS sensor’s WebUI and download the correct .PCAP, .TRAJ, and possibly .LIVOX and .MP4 files to a computer.
- 20. Safely shutdown the OpenMMS sensor using the INPUT pushbutton and when safe to do so, unlatch the POWER pushbutton.