

Preparation of initial data

After completion of the field works, prior to RAW data processing, it is necessary to organize the achieved dataset:

1. Download the data to your computer. Photos from the camera and GNSS files from the PPK module of the aircraft; Data from the TOPODRONE LiDAR;
 - *.**pcap** – LiDAR sensor file
 - *.**imr** –file from the LiDAR IMU (Inertial Measurement Unit)
 - *.**ubx** – raw measurement file from the PPK Upgrade kit or built-in LiDAR PPK (GNSS) receiver
 - log.txt** – LiDAR system log data, doesn't take part in processing stage, but necessary for diagnostics
 - *.**raw** – LiDAR system diagnostics data, not included in processing

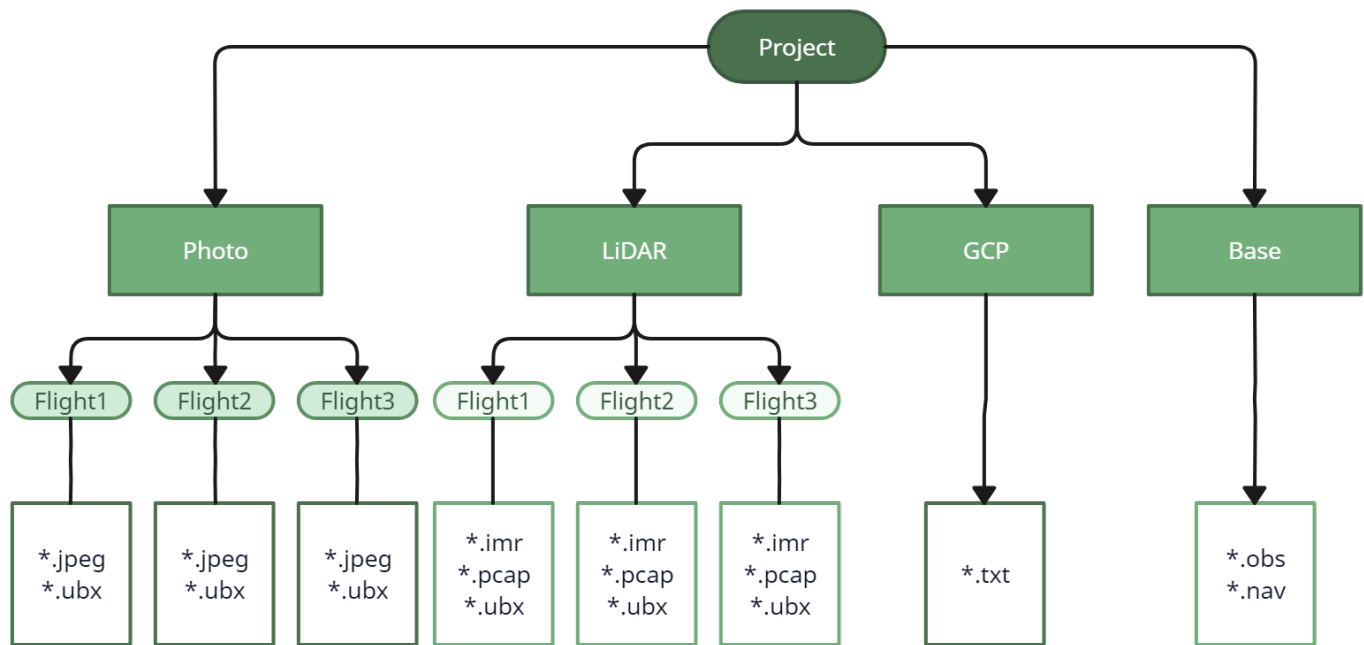
Имя	Дата изменения	Тип	Размер
 2022-03-17_14-42-55	17.03.2022 14:55	Waypoint Raw IMU D...	4 548 КБ
 2022-03-17_14-42-55.pcap	17.03.2022 14:55	"PCAP"	448 111 КБ
 2022-03-17_14-42-55	17.03.2022 14:55	"RAW"	7 488 КБ
 2022-03-17_14-42-55.ubx	17.03.2022 14:55	"UBX"	8 396 КБ
 log	17.03.2022 14:55		28 КБ

Sample of the TOPODRONE LiDAR single dataset.

- *.**ubx/.obs/.YYo/etc.** - Static observation files from the base station;
 - *.**txt/.csv/etc.** - Catalog of control point coordinates.
2. Distribute the data to a separate directories with an appropriate names. If you have had multiple flights and/or passes, each dataset shall be copied to a separate folder, accordingly.
 3. Images dataset shall be separated according to the flights, as well as the *.ubx files from these flights, which are on a microSD flash card installed in TOPODRONE PPK Upgrade Kit on the aircraft.

Please note that the photos should be separated exactly by flight. In DJI aircraft, photos are named with a numerical designation from 1 to 999 (For example, DJI_0001.jpg and DJI_0999.jpg), if you have more than 1000 files, the system will start writing the images to a new folder named DJI_0001.jpg

4. Be sure to convert the static observation file from the base station to RINEX format and move it to a separate folder, for example "Base".



Example of data storage organization.

Revision #7

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