

在线 RTK 差分结算模式

一 适用范围：

适合飞行时采用了 RTK 飞行作业模式，如连接千寻网络，省 CORS 等。

其适合于全程 RTK 固定连接，可适用差分结果。

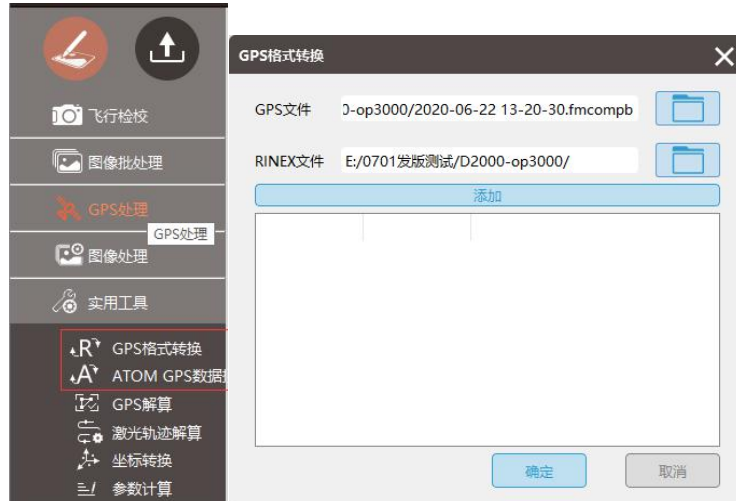
若存在 RTK 不固定，或中断，则不建议使用。

二 作业流程

1、Rinex 格式转换

无人机管家智理图模块，选择 GPS 格式转换工具。

选择机载 GPS 观测文件，设置转换目录，软件默认转换路径为原始 GPS 观测文件同级目录下，点击确定，完成 Rinex 格式转换。（支持批处理）



GPS 格式转换

2、在线 RTK 解算

无人机管家智理图模块，选择 GPS 差分解算工具。

导入流动站数据：即转换后的机载 GPS 文件“*.o”格式



点击“下一步”，进行 GPS 解算参数设置。



偏心改正类型：根据飞机及载荷信息选择。

解算方式：在线 RTK

RTK 轨迹：设置飞行时的 RTK 轨迹文件.fmnav 格式

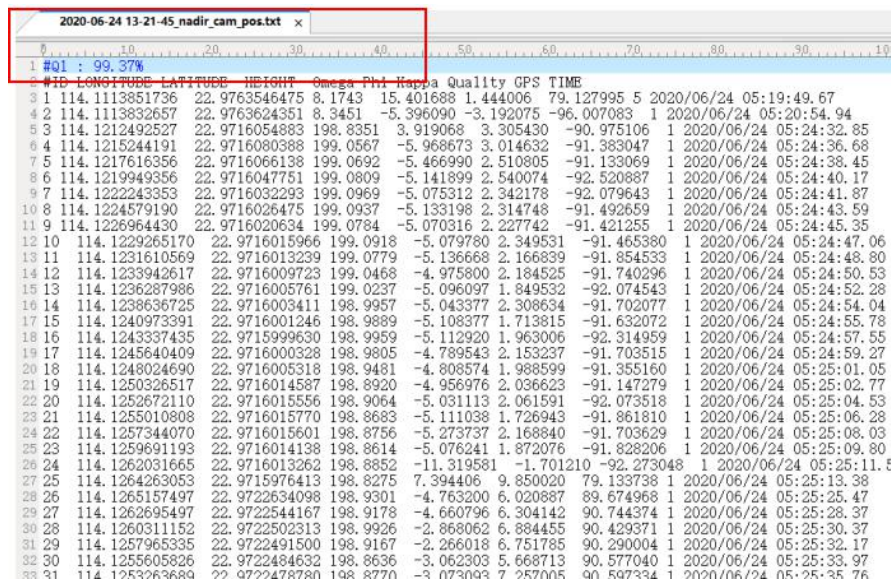
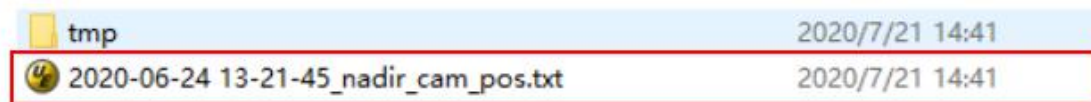
保存路径：设置 RTKPOS 的结果输出路径。

其他参数全按照默认进行。

点击“解算”，即可输出实时 RTK 的相机 POS 结果。

3、在线 RTK 结果查看

打开结果输入路径，_cam_pos.txt 即为在线 RTK 模式下的相机 POS 结果。检查固定率，一般建议固定率大于 98% 可以使用。



A screenshot of a text editor window displaying the content of the file '2020-06-24 13-21-45_nadir_cam_pos.txt'. The window title is '2020-06-24 13-21-45_nadir_cam_pos.txt x'. The text content is as follows:

```
1 #Q1 : 99.37%
2 #ID LONGITUDE LATITUDE HEIGHT Omega Phi Kappa Quality GPS TIME
3 1 114.1113851736 22.9763546475 8.1743 15.401688 1.444006 79.127995 5 2020/06/24 05:19:49.67
4 2 114.1113832657 22.9763624351 8.3451 -5.396090 -3.192075 -96.007083 1 2020/06/24 05:20:54.94
5 3 114.1212492527 22.9716054883 198.8351 3.919068 3.305430 -90.975106 1 2020/06/24 05:24:32.85
6 4 114.1215244191 22.9716080388 199.0567 -5.968673 3.014632 -91.383047 1 2020/06/24 05:24:36.68
7 5 114.1217616356 22.9716066138 199.0692 -5.466990 2.510805 -91.133069 1 2020/06/24 05:24:38.45
8 6 114.1219949356 22.9716047751 199.0809 -5.141899 2.540074 -92.520887 1 2020/06/24 05:24:40.17
9 7 114.1222243353 22.9716032293 199.0969 -5.075312 2.342178 -92.079643 1 2020/06/24 05:24:41.87
10 8 114.1224579190 22.9716026475 199.0937 -5.133198 2.314748 -91.492659 1 2020/06/24 05:24:43.59
11 9 114.1226964430 22.9716020634 199.0784 -5.070316 2.227742 -91.421255 1 2020/06/24 05:24:45.35
12 10 114.1229265170 22.9716015966 199.0918 -5.079780 2.349531 -91.465380 1 2020/06/24 05:24:47.06
13 11 114.1231610569 22.9716013239 199.0779 -5.136668 2.166839 -91.854533 1 2020/06/24 05:24:48.80
14 12 114.1233942617 22.9716009723 199.0468 -4.975800 2.184525 -91.740296 1 2020/06/24 05:24:50.53
15 13 114.1236287986 22.9716005761 199.0237 -5.096097 1.849532 -92.074543 1 2020/06/24 05:24:52.28
16 14 114.1238636725 22.9716003411 198.9957 -5.043377 2.308634 -91.702077 1 2020/06/24 05:24:54.04
17 15 114.1240973391 22.9716001246 198.9889 -5.108377 1.713815 -91.632072 1 2020/06/24 05:24:55.78
18 16 114.1243337435 22.9715999630 198.9959 -5.112920 1.963006 -92.314959 1 2020/06/24 05:24:57.55
19 17 114.1245640409 22.9716000328 198.9805 -4.789543 2.153237 -91.703515 1 2020/06/24 05:24:59.27
20 18 114.1248024690 22.9716005318 198.9481 -4.808574 1.988599 -91.355160 1 2020/06/24 05:25:01.05
21 19 114.1250326517 22.9716014587 198.8920 -4.956976 2.036623 -91.147279 1 2020/06/24 05:25:02.77
22 20 114.1252672110 22.9716015556 198.9064 -5.031113 2.061591 -92.073518 1 2020/06/24 05:25:04.53
23 21 114.1255010808 22.9716015770 198.8683 -5.111038 1.726943 -91.861810 1 2020/06/24 05:25:06.28
24 22 114.1257344070 22.9716015601 198.8756 -5.273737 2.168840 -91.703629 1 2020/06/24 05:25:08.03
25 23 114.1259691193 22.9716014138 198.8614 -5.076241 1.872076 -91.828206 1 2020/06/24 05:25:09.80
26 24 114.1262031665 22.9716013262 198.8852 -11.319581 -1.701210 -92.273048 1 2020/06/24 05:25:11.5
27 25 114.1264263053 22.9715976413 198.8275 7.394406 9.850020 79.133738 1 2020/06/24 05:25:13.38
28 26 114.1265157497 22.9722634098 198.9301 -4.763200 6.020887 89.674968 1 2020/06/24 05:25:15.17
29 27 114.1262695497 22.9722544167 198.9178 -4.660796 6.304142 90.744374 1 2020/06/24 05:25:16.96
30 28 114.1260311152 22.9722502313 198.9926 -2.868062 6.884455 90.429371 1 2020/06/24 05:25:18.75
31 29 114.1257965335 22.9722491500 198.9167 -2.266018 6.751785 90.290004 1 2020/06/24 05:25:20.54
32 30 114.1255605826 22.9722484632 198.8636 -3.062303 5.668713 90.577040 1 2020/06/24 05:25:22.33
33 31 114.1253263680 22.9722478780 198.8770 -3.073093 7.257005 90.507334 1 2020/06/24 05:25:24.12
```