

# Quick Start Guide for UAV PPK Solution

## 1. Procedure & Workflow

The general procedure of this solution is as follows:

First, mount AX3705 helix antenna or AX3703 GNSS aviation antenna and BX306 PPK board on the drone, connect camera hot shoe to Event Mark port of BX306 for camera shutter synchronization. Then set BX306 on the drone to record GNSS raw observation, ephemeris and event mark time. Next, fly the drone, make the base and the rover record data at the same time. After flight, download data from the base and the rover and conduct post processing using our Tersus GeoPix software.



The work flow is as below:



## 2. Hardware Connection

### 2.1 Set up a Base

Below shows a typical setup for a base using David GNSS Reciever.



Figure 1.1 Base Kit Network Mode

Table 1.1	Devices	to set	up a	Base
-----------	---------	--------	------	------

NO.	Device Name
1	AX3702 GNSS antenna
2	GNSS antenna connector
3	Android device TC20 (not included in the kit)
4	COMM1-Bluetooth module
5	DC-2pin to USB Power Cable
6	Bracket for base
7	Power Bank (not included in the kit)
8	David GNSS receiver
9	TNC-J to SMA cable 1.5m (GNSS antenna cable)



### 2.2 Set up a Rover

Follow below steps to set up a Rover.

 Connect the power cable to the DC port of the BX306 PPK Receiver which is powered by 5V~15V DC. (A power bank with 5V output or 12V power supply comes with UAV).



Figure 2.1 Connect power cable to the DC port of BX306

Connect hot shoe adapter to the camera using the hot shoe cable (Figure 2.2 and 2.3), then connect the hot shoe connector to the EVENT connector of the 20pin external cable (Figure 2.4 and 2.5).



Figure 2.2 Hot shoe adapter and hot shoe cable



Figure 2.3 Connect hot shoe adapter to the camera



Figure 2.4 Outline of the 20pin external cable



Figure 2.5 Connect hot shoe connector to the EVENT connector



## 2.3 Rover Connection Diagram

The connection diagram of Tersus UAV PPK Solution is as follows:



Figure 2.6 Connection diagram of Tersus UAV PPK Solution

In the above connection diagram, the AX3705 helix antenna is recommended to be installed as shown in below Figure 2.7. Ensure the AX3705 helix antenna is installed vertically and the bottom of the antenna is above the UAV. The installation requirement for AX3703 GNSS aviation antenna is the same.

Note: It is suggested to keep the antenna away from metal devices to avoid signal interference.



Figure 2.7 Recommended installation of AX3705 helix antenna on the UAV



## 3. Software Configuration

### 3.1 Base Station

The base station is installed in a high-lying, open environment and close to the area to be surveyed. Type below configuration command in Tersus GNSS Center:

LOG FILE RANGEB ONTIME 1	//output 1Hz observation data to the storage device
LOG FILE GPSEPHEMB ONTIME 30	//output 30s interval of GPS ephemeris to the storage device
LOG FILE GLOEPHEMERISB ONTIME 30	//output 30s interval of GLONASS ephemeris to the storage device
LOG FILE BDSEPHEMERISB ONTIME 30	//output 30s interval of BDS ephemeris to the storage device
LOG FILE BESTXYZB ONTIME 30	//output 30s interval of optimal position to the storage device
STORETYPE EMMC	//set the storage device as eMMC
LOGFILE AUTO	//storage mode is automatic storage
SAVECONFIG	//save the configuration

If the base station is set up at a known point, the configuration of the base station antenna coordinates can be added to fix the position of the base station. If the fix position is not configured yet, it can be input using GeoPix software which details in section 6.2.2. If there is no known point or no need of precise absolute coordinates, this step is ignored and the single point solution of base station will be used.

**FIX POSITION xx.xxxxxx xxx.xxxxx xx.xxxx** (latitude degree, longitude degree, MSL height meter)

**Note**: DO NOT directly copy the above FIX POSITION xx.xxxxx xxx.xxxxx xx.xxxxx commands, where latitude, longitude, and antenna height require entering by the customer based on the actual known point coordinates.



### 3.2 Rover on UAV

#### 3.2.1 EVENT Configuration

Open Tersus GNSS Center software, type below command in the Text Console to configure BX306 receiver.

## MARKCONTROL MARK1 ENABLE POSITIVE 0 800

#### SAVECONFIG

This command is used to control the mark inputs. Using this command, the event mark inputs can be enabled or disabled, polarity can be positive or negative, and a time offset and guard against extraneous pulses are optional.

Currently only MARK1 is supported in this PPK solution. The other commands refer to details in Log & Command document.

#### 3.2.2 Rover Configuration

When the receiver is configured as a rover on UAV, the command configuration in Tersus GNSS Center is as follows:

LOG FILE MARKTIMEB ONMARK	//output MARK time information
LOG FILE RANGEB ONTIME 0.2	//output 5Hz observation data to the storage
	device, 0.2 means 5Hz, 0.05 means 20Hz
LOG FILE BESTXYZB ONTIME 0.2 //ou	tput 5Hz optimal position to the storage device
LOG FILE GPSEPHEMB ONTIME 30	// output 30s interval of GPS ephemeris to
	the storage device
LOG FILE GLOEPHEMERISB ONTIME 30	) //output 30s interval of GLONASS
	ephemeris to the storage device
LOG FILE BDSEPHEMERISB ONTIME 30	//output 30s interval of BDS ephemeris to



STORETYPE EMMC LOGFILE AUTO SAVECONFIG the storage device //set the storage device as eMMC //storage mode is automatic storage //save the configuration

Note: The output frequency is setup according to the speed of the drone.

## 4. Data Download

Connect the BX306 receiver to the computer using the mini USB cable, and the corresponding serial port will appear in the device manager of the computer (if there is no serial port, please download the USB driver for Windows system from the official website https://www.tersus-gnss.com/software /david-receiver).

Open 'TersusDownload.exe' and select the corresponding serial port. Select 'use current baudrate (USB:80KB/Second, Serial:8~32KB/S)' for the 'Download Speed' and click [START] to start.

DownLoad Port:	COM20	~
DownLoad Speed:	use current baudrate(USB:80KB/Second, Seria	al:8~3% ~
Progress Info:		
	Start	

Figure 5.1 Select serial port and download speed



After waiting for the software recognize the USB transmission baud rate, the software automatically pops up the file name and other information stored in the eMMC. Select the storage directory for the downloaded data in 'DownloadPath'. Refer to the figure below.

Auto Create	RINEX File(\$Downloa	dPath/RINEX) after o	download			
Media	EMMC	FreeSpace	3756068	КВ	SelectAll	
FileName 00065_201 00065_201	80903062007.dat 80905015327.dat	UTC Time 20180903 6:20 20180905 1:53	Size 282587 66405	status		

Figure 5.2 Select download path

Select the data needs to be downloaded and click [Download] to start the download as follows:

edia	EMMC	FreeSpace	3756044	KB	SelectAll
FileName		UTC Time	Size	status	
00065_20	180903062007.dat	20180903 6:20	282587	Downlo	ading

Figure 5.3 Download data in progress

When the data download is completed, 'OK' is displayed in the 'status' of the file information window.

DownloadPath	Select	View				
Media		FreeSpace	3756044	КВ	SelectAll	
FileName		UTC Time	Size	status		
00065_2	0180903062007.dat	20180903 6:20	282587	OK		

Figure 5.4 Data download is completed

## 5. Process data using GeoPix

### 5.1 Download and install GeoPix

Tersus GeoPix is part of Tersus Tool Suite. The latest version of Tersus Tool Suite can be downloaded from Tersus official website (https://www.tersus-gnss.com/software). Install the Tersus Tool Suite software, and GeoPix can be found under the Tersus GNSS Center in the Start menu (in Windows 10 operating system for example).



Figure 6.1 TersusGeoPix in the Start menu



## 5.2 Process data precedure

Open Tersus GeoPix software and get below interface.

se Data				Rover Da	ata				
			Select					Sele	ct
Input Base Po no position in Lat	osition (check it when base data file) Lon	DEG ODMm(DDM     Heigh	M.mm) ODMS(D t(Ellipsoid)	D,MM,SS) Metres	Height Offset 0.0	00 Metres	s(Tagged Altitud Ice Capture Tim	je=Altitude+0 e of the pictu	Offse ires
FileName	CreateTime	ModifyTime	Capture Time		UTC TIME	Latitude	Longitude	Altitude	P
					<			_	
	<u>n</u>	Original La	atitude		Map Use Google.c	om OI	Map Use Google	.cn	
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		Original A							

Figure 6.2 Main interface of Tersus GeoPix

#### 5.2.1 Set Working Directory and Import Pictures

Click [Select] on the right of 'Working directory (Auto load pictures with geotag if there are pictures in this directory)', select the folder of the pictures taken by the camera at the time of triggering EVENT as the working directory, and the software automatically recognize the pictures and display the photo shooting time and other information in the software. (Temporarily supports pictures of .JPG and .CR2 format only)



\Users\93906	Desktop\UAV_DATA\P	ctures						Select
Data				Rover Da	ita			
neen.			Select					Select
nput Base Po to position in it	stion (check it when base data file)	⊛DEG ODHm(D	DMM.mm) ODMS ght(Elipsoid)	(DD, MM, SS) Metres	Height Offset 0.	000 Metres	(Tagged Altitue	de=Altitude+Offset
lettame	CreateTime	ModifyTime	CaptureTime	^	UTC TIME	Lattude	Longitude	Abbude
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	(Users)(83906)(Desktop)(	UAV_DATA\Pictures\ Origna Tagge Origna Tagge Drigna Tagge	MG_0132.jpg I Lattude 0.0000 d Lattude Not IP( I Longitude Not IP( d Lengitude Not IP( I Alttude 0.0000 d Alttude Not IP(	0000 i/No Tag 0000 i/No Tag 00	O Map Use Google.	com 🛞 I	Map Use Google	

Figure 6.3 Select a folder for working directory

#### 5.2.2 Import Base Data and Rover Data

For Base Data and Rover Data, select the downloaded base data and rover data respectively, in which base data supports three kinds of formats including Tersus Binary (\*.dat;\*.trs), RINEX file (\*.\*o), and RTCM (\*.dat); rover data supports Tersus Binary (\*.dat;\*.trs) only.

<u>!</u>	Note: Select Tersus Binary (*.dat;*.trs) when the observation data is obtained using
	Tersus GNSS receiver.

If the antenna coordinates of base station have been configured using the FIX POSITION command (details refer to section 3.1) in the base station configuration,



there is no need to check the 'Input Base Position (check it when no position in base data file)' which is shown in Figure 6.4.

If the FIX POSITION command is not configured, it is needed to check this option and input the antenna coordinates of the base station. The coordinates are input in the DEG format (shown in Figure 6.5), DMm (DDMM.mm) format, or DMS (DD, MM, SS) format.

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at		Lon		Height(Ellipsoi	d)	Metres	Use Event Ma	ark UTC Tir	ne to repla	ce Capture Tim	e of the pictures	È.
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	-			Orginal Latitude Tagged Latitude Orginal Longitude Tagged Longitud Orginal Atitude	0.00000 Not 3PG 0.00000 Not 3PG 0.00000	1000 /No Tag 1000 /No Tag 10						

Figure 6.4 Select base data and rover data without base position

In the 'Height Offset' option, configure the elevation deviation between the antenna phase center and the camera focus, which is the fixed elevation difference of the camera focus elevation minus the antenna phase center elevation.

Check the pictures according to the needs to determine whether to tag the picture. The quantity of the pictures needs to be the same as the quantity of the EVENTs, and the pictures are arranged in chronological order in the software to ensure alignment with the EVENTs.



\Users\93906\De	sktop\UAV_DATA	Pictures							Select
e Data :\Users\93906\D	esktopijUAV_DATA	Data\BASE.DAT		Select	Rover Da C:\Users	ta (93906\Desktop\UAV_	DATA\Data\ROVE	R.dat	Select
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Figure 6.5 Select base data and rover data with base position

Click [RTK Option] to configure the RTK option including satellite system, frequency used to process data and the strategy of integer ambiguity resolution for different systems. The default configuration is using all three systems.

System			
⊡ GPS	GLONASS	BDS	
Frequence			
1000	0		
OLI	●L1+L2		
○L1 Integer Ambigu GPS	UL1+L2  ity Res GLONASS	BDS	

Figure 6.6 Configure RTK option



#### 5.2.3 Data Processing

Click the 'RUN' at the bottom to start GNSS post-processing as shown in Figure 6.6

below.

:\Users	s\93906\Desktop\UAV	DATA	Pictures							Select
e Data				1.00		Rover Da	ta			1
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leNan	ne CreateTim	e	ModifyTime	Capture	Time	•	UTC TIME	Latitude	Longtude	Atitude
	_0135.jpg 2018/09/0 5_0136.jpg 2018/09/0 5_0137.jpg 2018/09/0 C:\Users\93906	05 1 05 1 05 1	Progress Info processing : 2	2018/07/31 06:24	:52 Q=1				p Use Google	.cn
	9	The state	0 Ti 0 Ti	nginal Latitude agged Latitude riginal Longitude agged Longitude riginal Altitude	0.00000000 Not 3PG/No 0.00000000 Not 3PG/No 0.000000	Tag Tag				

Figure 6.7 Click RUN to start data processing

If the captured pictures do not contain EXIF information, the software automatically tag the pictures according to the calculated antenna coordinates at the EVENT time (add the EXIF information to the pictures). Or manually tag the pictures by clicking the 'Geotag' at the bottom of Figure 6.6. The geotagged result list is shown as below.



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MG_0134.jpg	N31.19936298	E121.59954526	16.747	2018:07:31 1	FIX	
_MG_0135.jpg	N31.19957363	E121.59944721	17.151	2018:07:31 1	FIX	
_MG_0136.jpg	N31.19997257	E121.59928047	16.150	2018:07:31 1	FIX	
_MG_0137.jpg	N31.20020024	E121.59919950	16.117	2018:07:31 1	FIX	
_MG_0138.jpg	N31.20029101	E121.59961426	16.240	2018:07:31 1	FIX	
_MG_0139.jpg	N31.20031336	E121.60059020	17.413	2018:07:31 1	FIX	
_MG_0140.jpg	N31.20031583	E121.60222546	17.489	2018:07:31 1	FLOAT	
_MG_0141.jpg	N31.20031854	E121.60313209	16.420	2018:07:31 1	FIX	
_MG_0142.jpg	N31.20031796	E121.60396117	16.286	2018:07:31 1	FLOAT	
_MG_0143.jpg	N31.20032387	E121.60535620	16.447	2018:07:31 1	FIX	
_MG_0144.jpg	N31.20032359	E121.60654665	16.296	2018:07:31 1	FIX	
_MG_0145.jpg	N31.20032435	E121.60725310	16.174	2018:07:31 1	FLOAT	
_MG_0146.jpg	N31.20032428	E121.60737382	16.226	2018:07:31 1	FIX	
_MG_0147.jpg	N31.20035721	E121.60795778	16.412	2018:07:31 1	FLOAT	
_MG_0148.jpg	N31.20067544	E121.60825685	16.219	2018:07:31 1	FLOAT	
<					1	>

Figure 6.8 Geotagged Result List

#### 5.2.4 View processed results

After the geotag for the pictures is completed, the software automatically generates folders named 'geotag' and 'workingtemp' in the working directory, where the 'geotag' folder contains the pictures that have been tagged and ppk.txt file which indicates the information of the tagged pictures, and the 'workingtemp' folder contains the post-processing positioning results and the RINEX format file.

The coordinate information of the tagged pictures including latitude, longitude, altitude and position status can be seen by clicking the picture file name in Tersus GeoPix software. Whether the position status of the tagged picture is FIX or Float can also be seen in the ppk.txt file which locates in 'geotag' folder.



Criusers\/	(93906\Desktop	2018-7-31/JPC	e are pictures in 3	the crecto	97								Select	8
se Data							Rover Da	a						
C:\Users\	93906\Deskto	p\2018-7-31\BA	5E.180			Select	C:\Users	.93906\Desktop\20	18-7-31\RI	OVER.dat			Select	
Input Bano post	ase Position (cl tion in base dat	eck & when a file) Lon	⊛des Odi	4m(DDHH.n Height(El	nm) OD Iesoid) [	NS(DD,MM,SS)		Height Offset	-0.120 rk UTC Tr	Metres(	Tagged Altitud e Capture Time	e=Abtude	+Offset) tures	
Fieltame	e Crea 0132,050 201 0133,050 201 0134,050 201 0135,050 201 0136,050 201	ceTime 8/08/02 10:49: 8/08/02 10:49: 0/08/02 10:49: 8/08/02 10:49: 8/08/02 10:49:	ModifyTime 2018/07/31 2018/07/31 2018/07/31 2018/07/31 2018/07/31	14:06: 14:06: 14:07: 14:07: 14:07:	CaptureTim 2018:07:31 2018:07:31 2018:07:31 2018:07:31 2018:07:31	14:06:35 14:06:52 14:07:05 14:07:06 14:07:14	^ 	UTC TIME 2018:07:31 2018:07:31 2018:07:31 2018:07:31 2018:07:31 2018:07:31	06:2   06:2   06:2   06:2   06:2	Lattude N31 11 S N31 11 S N31 11 S N31 11 S N31 11 S	Longtude E121 36 0 E121 35 5 E121 35 5 E121 35 5 E121 35 5	Attude 16.0532 16.2058 16.7470 17.1511 16.1508	Pos Type FIX FIX FIX FIX FIX FIX	
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Figure 6.9 Check the coordinate information of the tagged pictures

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<u>File Edit Form</u>	nat <u>V</u> iew <u>H</u> elp				
MG 0132.jpg	31,19821689421	121.60010726119	16.0532	FIX	~
MG 0133.jpg	31,19869818445	121.59984354075	16.2058	FIX	
MG 0134.jpg	31.19936297992	121.59954526153	16.7470	FIX	
MG 0135.jpg	31.19957362808	121.59944721363	17.1511	FIX	
MG 0136.jpg	31.19997257214	121.59928046970	16.1508	FIX	
MG 0137.jpg	31.20020024198	121.59919950245	16.1178	FIX	
MG 0138.jpg	31.20029100948	121.59961425946	16.2408	FIX	
MG 0139.jpg	31.20031335827	121.60059020252	17.4133	FIX	
MG 0140.jpg	31.20031582509	121.60222545638	17.4892	FLOAT	
MG 0141.jpg	31.20031853957	121.60313208929	16.4204	FIX	
MG 0142.jpg	31.20031796453	121.60396116515	16.2867	FLOAT	
MG 0143.jpg	31.20032387112	121.60535619851	16.4479	FIX	
MG 0144.jpg	31.20032358755	121.60654665129	16.2964	FIX	
MG 0145.jpg	31,20032435118	121,60725310181	16.1746	FLOAT	
MG 0146.jpg	31,20032427759	121,60737382360	16.2269	FIX	
MG 0147.jpg	31,20035720801	121,60795777639	16.4127	FLOAT	
MG 0148.jpg	31,20067544105	121.60825685474	16.2197	FLOAT	
MG 0149.jpg	31.20094709229	121.60842096045	16,1861	FIX	
MG 0150.jpg	31.20148644347	121.60875465811	16.0410	FIX	
					~

Figure 6.10 Information in ppk.txt file

Click [ViewPlot] at the bottom to view the positioning results of the GNSS post-processing data and the location information of the EVENT moments. The example is shown in Figure 6.10 and Figure 6.11. In the screenshots below, the position status of green points are fixed, the position status of yellow points are float.





Figure 6.11 Positioning results of the GNSS post-processing



Figure 6.12 The location information of the EVENT moments



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