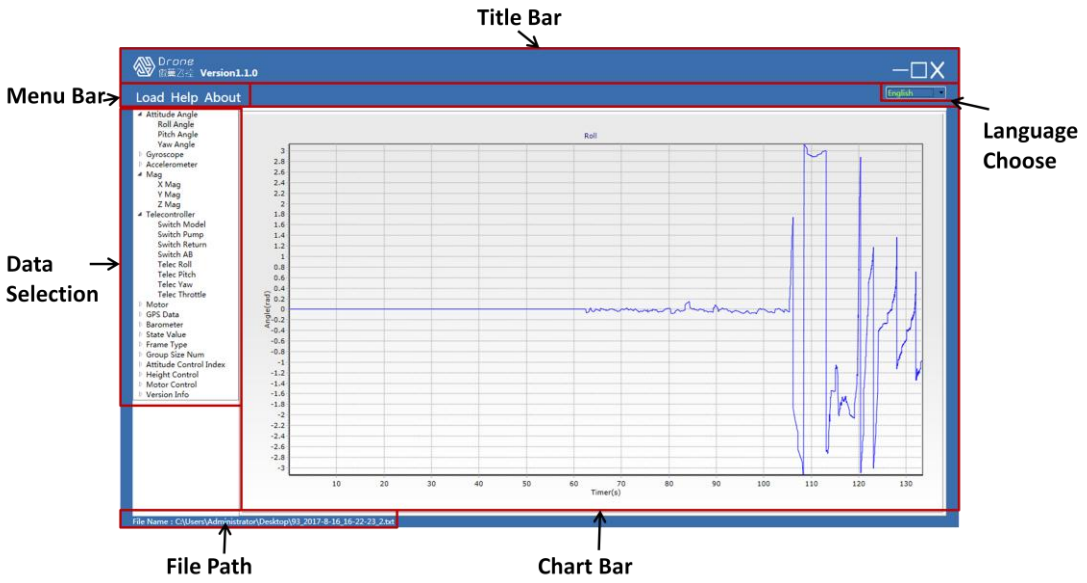
Auto-Wing Data Analysis Software



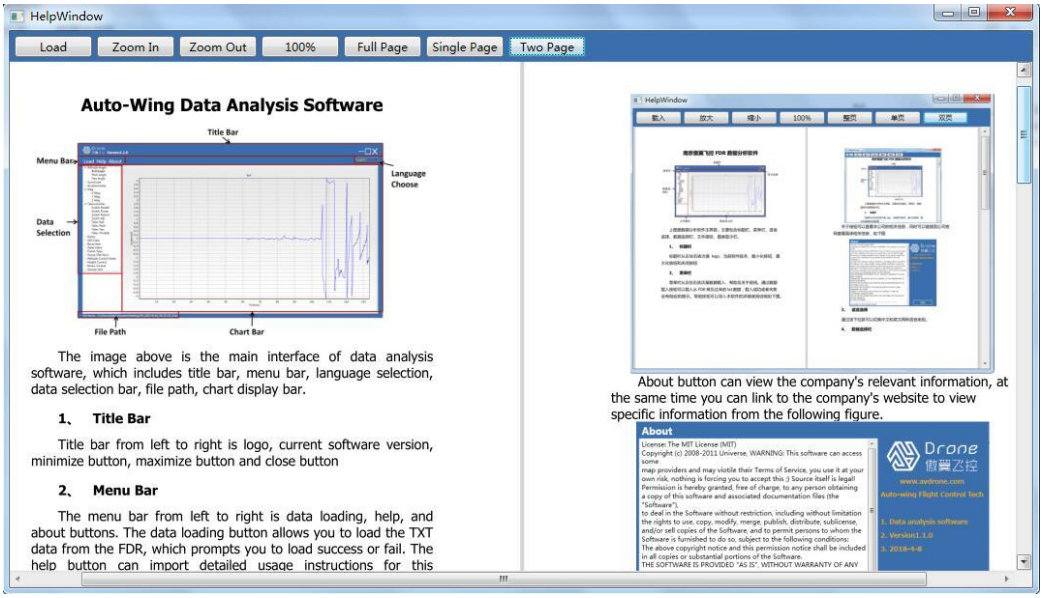
The image above is the main interface of data analysis software, which includes title bar, menu bar, language selection, data selection bar, file path, chart display bar.

1、 Title Bar

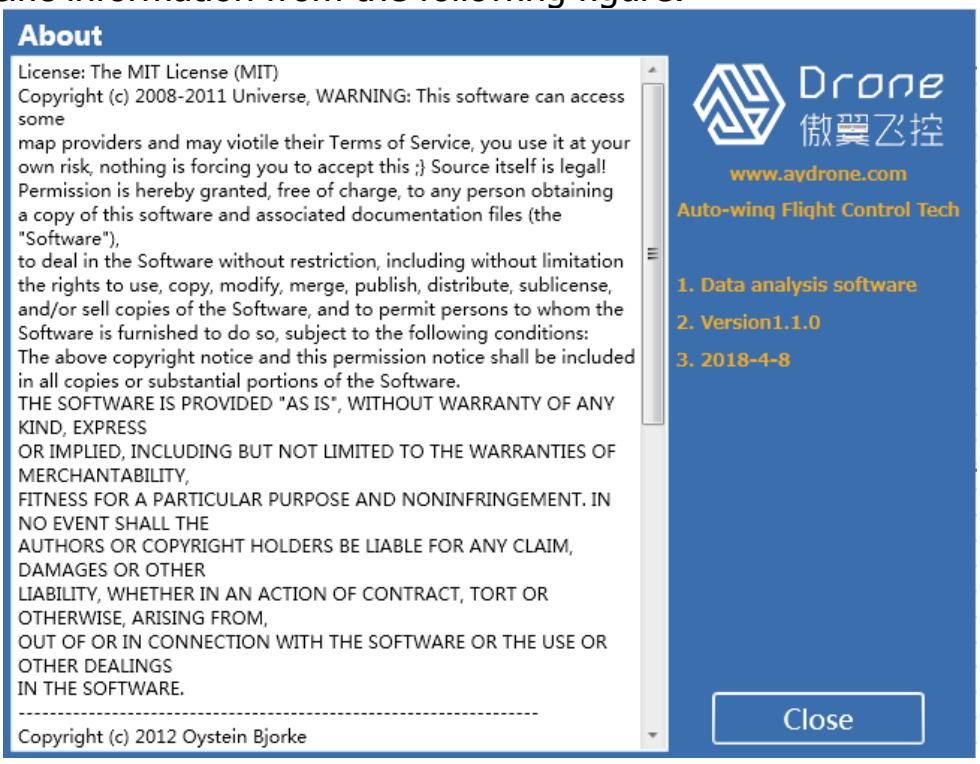
Title bar from left to right is logo, current software version, minimize button, maximize button and close button

2、 Menu Bar

The menu bar from left to right is data loading, help, and about buttons. The data loading button allows you to load the TXT data from the FDR, which prompts you to load success or fail. The help button can import detailed usage instructions for this software as shown below.



About button can view the company's relevant information, at the same time you can link to the company's website to view specific information from the following figure.



3、 Language Selection

The drop-down section allows you to switch between Chinese and English language categories.

4、 Data Selection Bar

The data selection bar allows you to view chart information for a specific value, and you need to load the data before viewing it. See appendix for specific data.

5、 File Path

This area mainly displays which group of TXT data is currently selected, and the detailed path information it is in.

6、 Chart Display Bar

The region mainly in the form of charts to display relevant data information, through the mouse to select a piece of area to the right to pull to enlarge the area, through the mouse point to select a region to the left to pull back to the default chart state.

Appendix

This part mainly introduces the data selection column, and some of the data in the UAV hover state of the effective range.

List Details

Attitude Angle :

1、 Roll----------→±0.0872rad

2、 Pitch----------→±0.0872rad

3、 Yaw ----------→±0.0872rad

Gyroscope :

1、 RollRate ----------→±0.0872rad

2、 PitchRate----------→±0.0872rad

3、 YawRate ----------→±0.0872rad

Acceleration Meter :

1、 Xacc----------→ -1 ~ 1 m/s2

2、 Yacc ----------→-1 ~ 1 m/s2

3、 Zacc----------→-8.0 ~ -11m/s2

Geomagnetic Meter :

1、 MagX----------→ No More Than 0.6 guss

2、 MagY----------→ No More Than 0.6 guss

3、 MagZ----------→ No More Than 0.6 guss

Remote Control :

1、 Mode Switch
2、 Pump Switch
3、 AB Point Switch
4、 Prop Roll
5、 Prop Pitch
6、 Prop Yaw
7、 Prop Throttle

Motor Value :

1、 M1(Motor One)----------→ Hover change range not more than 100
2、 M2(Motor Two)----------→ Hover change range not more than 100
3、 M3(Motor Three) ----------→ Hover change range not more than 100
4、 M4(Motor Four) ----------→ Hover change range not more than 100
5、 M5(Motor Five) ----------→ Hover change range not more than 100
6、 M6(Motor Six) ----------→ Hover change range not more than 100

GPS Data :

1、 GPS-Vn-------→±0.1m/s
2、 GPS-Ve-------→±0.1m/s
3、 GPS-Vd -------→±0.1m/s
4、 GPS-Lon(Longitude)
5、 GPS-Lat(Latitude)
6、 Track Playback
7、 GPS-Alt
8、 GPS-Heading
9、 GPS-StarNum-------→Need More Than Nine
9、 GPS-Dop----→ Better Below 1.5 ,Not Good More Than 2.5

Air Gauge :

1、 altitude-ori

Status Value :

1、 battery-volt
2、 FlightModelH
3、 FlightModelL
4、 IMU-State
5、 Posnumber
6、 RTK ----------→ Security Range: Parameter 50 is locked, less than 50 jumps out of fixed solution
7、 Zacc_Noise----------→Better Below 2.0

FrameType:

1、 Frametype(Corresponding setting parameters such as model, battery type, remote control type, etc.)

Group_Size_Num :

1、 Group
2、 Sizepo
3、 Num

Attitude Control Parameters :

A、Yaw_Control
- 1、 RelYaw
- 2、 StabYaw
- 3、 FBYaw

B、Roll_Pitch_Control
- 1、 RelRoll
- 2、 StabRoll
- 3、 RelPitch
- 4、 StabPitch

C、Pos
- 1、 RelDestLon
- 2、 RelDestLat
- 3、 RelPos
- 4、 RelVn
- 5、 RelVe

Height Control Parameters :

- 1、 RelAlt
- 2、 RelAltVel
- 3、 FBVd

4、 StabThro

Motor Controller：

1、 MotorRoll

2、 MotorPitch

3、 MotorYaw

Version Information：

The range mainly displays the AP version number, the IMU version number, the GPS version number, the hub version number, the geomagnetic version number, the LED version number, the FDR version number, the DTU version number, the RTK version number, and the AP number.