

## **2025-02-08 Firmware and Documentation Updates**

Gimbal\_Upgrade\_package\_V3.6

### **Updated Content**

#### **Gimbal\_Upgrade\_package\_V3.6**

1. GimbalConfig adds tilt protection and inverted mode setting options;
2. Optimized the adaptability of the tracking function to abnormal conditions;
3. Optimized the performance of pose solving.

## **2025-01-03 Firmware and Documentation Updates**

QGC\_Andriod\_XF\_V2.0.1230

Dragonfly\_XF\_V4.1.1227

GCU\_Upgrade\_Tool\_V6.5.02

### **Updated Content**

#### **QGC**

1. Added a temperature measurement function component, which can control the relevant functions of the temperature measurement pod;
  2. Added calibration function, which can calibrate the pod gyroscope;
  3. Added TCP connection option;
  4. Added camera center point function, after opening, the QGC video player will superimpose a crosshair in the center of the frame;
  5. Added the function of hiding pod control components in the video interface;
  6. Added video stream type selection function, which can support different types of video streams;
- \* For Z-1 and Z-2 series pods, please use V6.4.02 and above firmware.

#### **Dragonfly**

1. In order to adapt to the Z-1 and Z-2 series pods, relevant communication protocols have been added;
- \* For Z-1 and Z-2 series, please use V6.4.02 or later firmware.

## **GCU\_Upgrade\_Tool\_V6.5.02**

1. The default video stream address is updated to rtsp://192.168.144.108
2. Added the overheating protection function, when the CPU temperature of the camera is higher than 80° C, the video frame rate will be reduced to 5fps, and when the temperature drops below 75° C, the video frame rate will be restored.
3. Added the switch target recognition function, you can choose to turn on or off the target recognition in Dragonfly, and the target tracking function is not available after it is turned off;
4. Optimization of tracking effect;
5. Added the function of OSD switch with immediate effect
6. Fixed the problem that the gateway setting does not take effect;
7. Optimized the control feel of using the drag and drop function in Dragonfly;
- \* Please use QGC\_Andriod\_XF\_V2.0.1230 and above;
- \* Please use Dragonfly\_XF\_V4.1.1227 and above.

## **2024-10-24 Firmware and Documentation Updates**

GCU\_Firmware\_VB5.2(20241012).fgpf

Gimbal\_Firmware\_V3.3.cahf

Dragonfly\_V4.0.1024\_XF

## **Updated Content**

### **Dragonfly**

1. Support to modify camera IP and video stream configuration;
2. Support remote download of photos and videos in the pod memory card through the network;
3. Added OSD coordinate switching function, which can switch OSD coordinates to target point coordinates or carrier coordinates;
4. Added the time zone setting function, which can set the time zone of the OSD time on the screen;
5. Added an automatic inverted switch, which can set whether the screen will automatically flip with the upside-down installation of the pod;
6. Added the recognition and tracking function, the pod will automatically enter the tracking after identifying the target in the screen;
7. Added automatic identification function switch, which can turn on or off the target recognition function of the pod;
8. Added the function of specifying magnification, which can zoom to the specified magnification with one click;

9. Added network reset function, which can reset the network configuration of the pod through the serial port;
10. Added the function of specifying the picture-in-picture mode, which can switch to the designated picture-in-picture mode with one click;

## **2024-06-17**

CwGimbalZGV2Main\_V3.1.cahf

CwGimbalAutoPilot\_MainControl\_VA3.0(20240613).cgff

CwGbCamera\_MainControl\_VB5.0(20240617).fgpf

## **Updated Content**

1. Added firmware adapted to the new model pod;
2. Optimize pod control during tracking;
3. Added the pod tracking function, after the target is lost in the tracking state, the pod will automatically track a distance to the possible movement direction of the target;
4. Add pod working mode;
5. Expansion of private protocol functions.

## **2024-03-06**

CwGimbalAutoPilot\_MainControl\_V2 .9 ( 20240110) . cgff

Dragonfly\_V3.0.0306

## Updated Content

### Pod display and control software Dragonfly

1. Add the configuration interface for GCU;
2. Add part of the equipment information content to the information column;
3. Add OSD switching function, which can turn on or off the OSD information of the pod screen;
4. Add the function of selecting the video resolution of the main window;
5. Add TCP communication function;
6. The image display of the small window has been changed from the real-time picture to a frame of refresh every 5s.

## 2023-10-27

CwGimbalAutoPilot\_ MainControl\_V2 .7 ( 20231020) . cgff

D Series and GCU Related Documentation

## Updated Content

1. GCU private communication protocol modification, corresponding to the version of "GCU private communication protocol-XF(A5)V2.0.2. pdf", see "Version History" in the document for details of the modifications;
2. The default network segment of the GCU is defined by "192.168. 1.X was amended to read 192.168.144.X. The firmware upgrade operation does not modify the current network segment and configuration of the GCU.
3. You can use the pointing and panning function in lock mode only;
4. When the target is lost in tracking mode, it will automatically switch to staring mode after waiting for 5s, and switch to lock mode if there is no gaze target;
5. For document updates, please refer to "Version History" in the documentation.

**2023-08-10**

GCU Private Protocol-XF(A5)V2.0. pdf

## **Updated Content**

See "Version History" in the documentation.

**2023-08-01**

CwGimbalZGV2 Main\_V2 . 6 . cahf

CwGimbalAutoPilot\_ MainControl\_V2 .6 ( 20230627) . cgff

## **Updated Content**

1. Optimized the self-stability performance of the pod under different platform inclination angles;
2. Add roll control, angle soft limit, platform inclination protection function;
3. The control algorithm has been optimized to improve the control accuracy of the pod;
4. Optimize the tracking algorithm;
5. Optimized the pointing and panning function;
6. Improved the problem of poor lag experience of zoom to the specified multiple, and optimized the zoom instruction;
7. Added the function that the inverted mode can be set manually;
8. Enable pointing stick in follow mode;
9. Fixed the problem of pointing and panning command;
10. Optimize the judgment of the effectiveness of the target point location;
11. Added angle control mode when using protocol control.