

# Seagull #SYNC2

User Manual



Product: Seagull #SYNC2  
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## GENERAL INFORMATION

**\*\*\* Please read this manual thoroughly before connecting and configuring Seagull #SYNC2 \*\*\***

Seagull #SYNC2 is a universal hotshoe that interfaces with Pixhawk, APM and other flight controllers that utilize the use of feedback from a camera hotshoe.

Obtain high precision mapping with our custom designed hotshoe adapter that connects directly to Pixhawk or APM based supported systems.

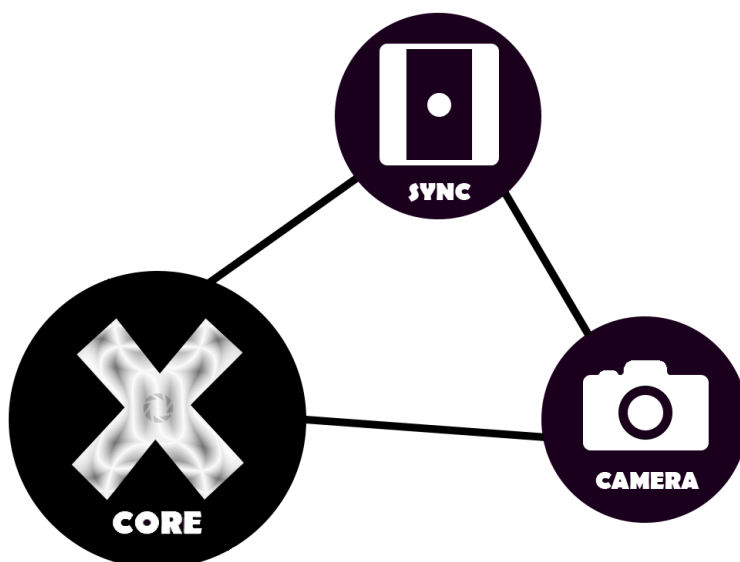
Use it in conjunction with Seagull #MAP-X2, #MAP2, Seagull #REC or a camera trigger of your choice.

When a photo is triggered with fx. Seagull #MAP2, the feedback from the hotshoe of the camera is sent to your Pixhawk/APM where your GPS position will be logged on the exact time when the camera triggered vs. normally – when Pixhawk/APM sends the signal to the camera trigger.

This way you will reduce drift of your photos to obtain | higher precision with your mapping.

### #SYNC2 features:

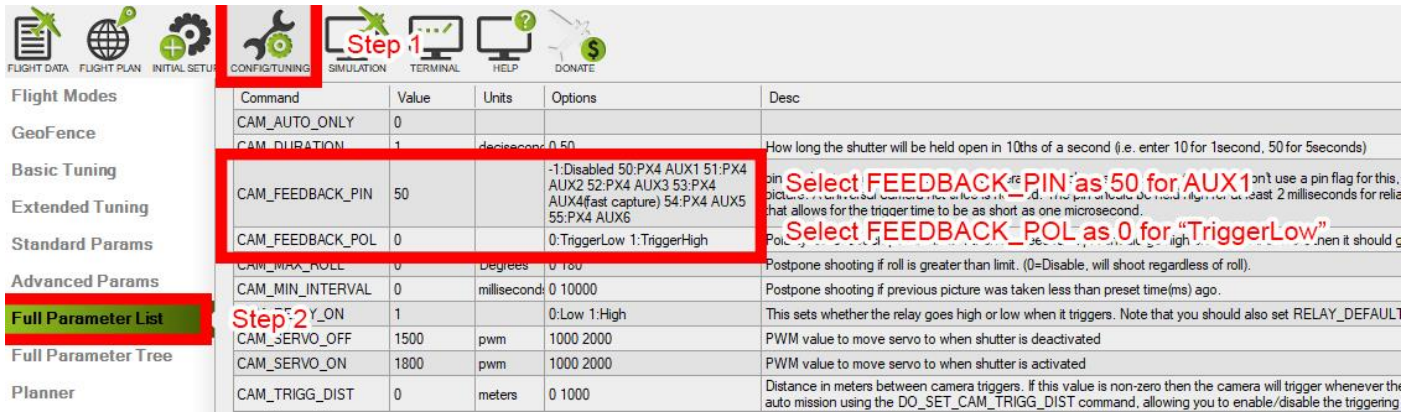
- **Instant feedback of cameras shutter to your logging system!**
- **Easy to interface with Pixhawk and other ArduPilot controllers!**
- **Able to integrate with high precision camera trigger #MAP-X2!**



# FLIGHT CONTROLLER INTEGRATION

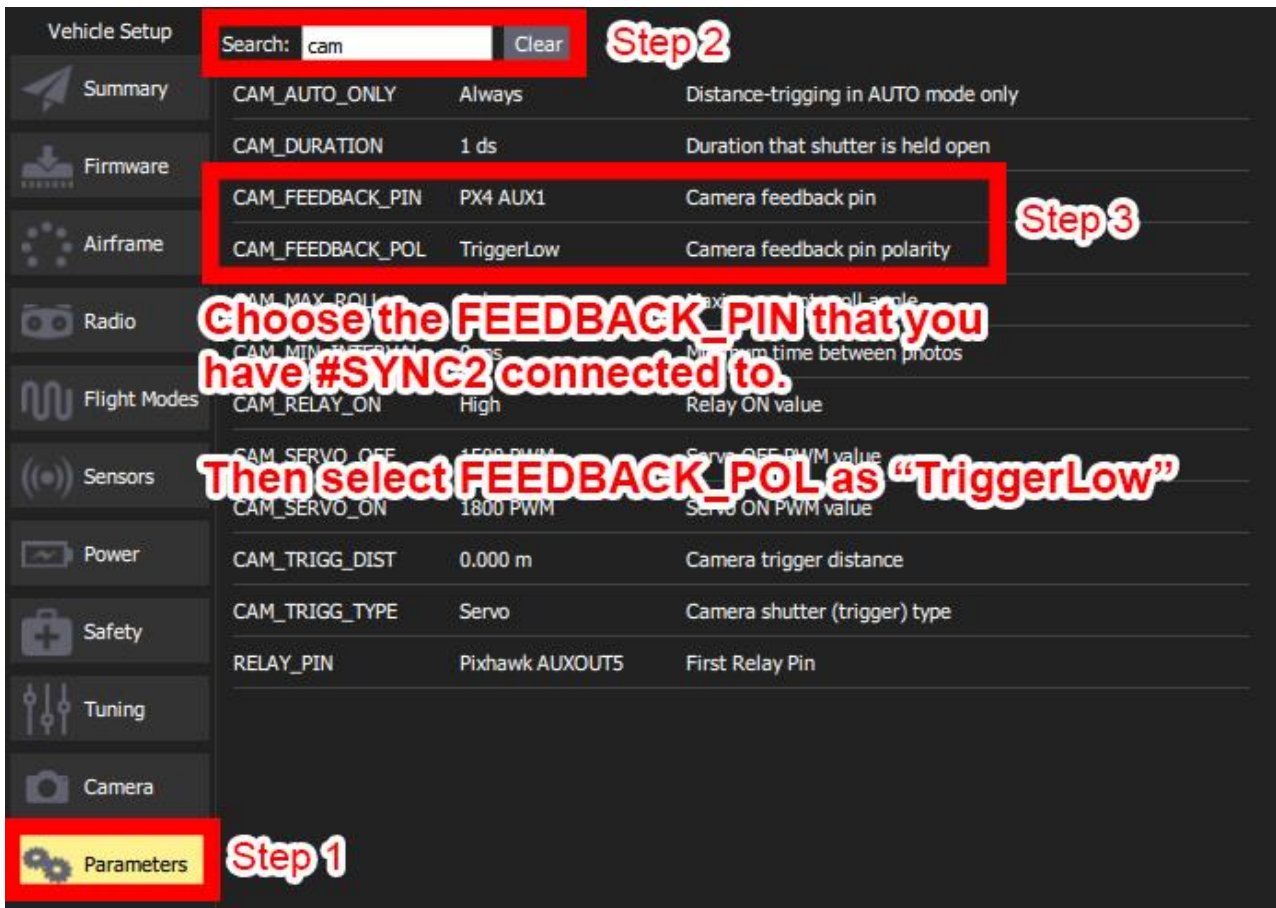
## MISSION PLANNER

Implementing #SYNC2 via on an ArduPilot based Flight Controller could not be easier, simply follow the below steps as shown in the image and you are ready to go!



## QGroundControl

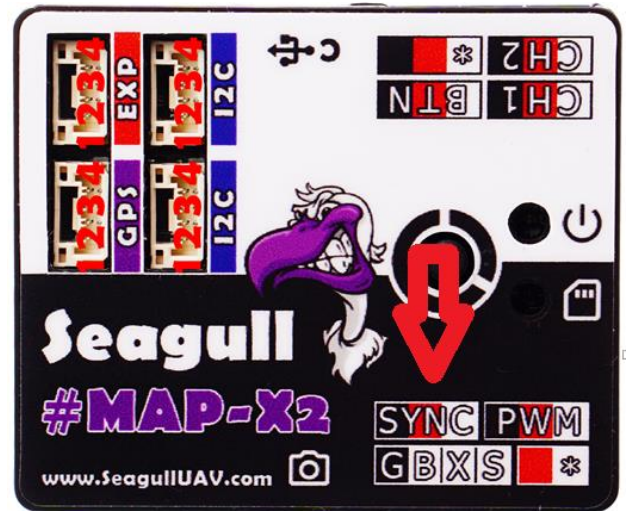
To integrate #SYNC2 with a platform that runs PX4 firmware on the Flight Controller simply follow the steps below as shown in the image!



## #MAP-X2 INTEGRATION

Connecting #SYNC2 to #MAP-X2 could not be easier, simply follow the color coding of the cable and plug it into the #MAP-X2 SYNC port, and you are ready for precision logging!

**NOTE:** Be sure to setup the #MAP-X2 CONFIG.txt file for utilizing hotshoe feedback in order to enable the #SYNC2 integration.



## TROUBLESHOOTING

In a case that there is no hotshoe logging, please make sure the settings were adjusted accordingly for your platforms and are enabled. If the logging is still not happening inspect the servo cable for the connectivity and the polarity that it is connected to either of the devices.

## TECHNICAL SPECIFICATIONS

- Supply voltage: Depending on your device's communication level and camera, usually 3.3V – 5V will do just fine!
- Dimensions: 18.5mm x 18.5mm x 8.5mm
- Weight: 4 gram (without cable)