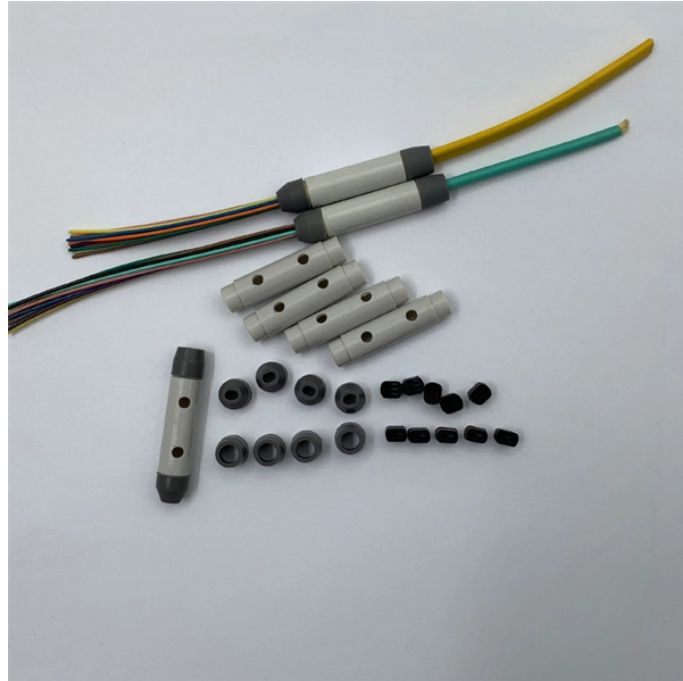


# AP Optical Flow Module

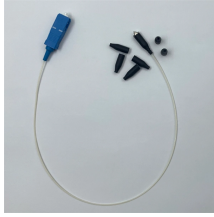


## Overview

Optical Flow uses a downward facing camera and a downward facing distance sensor for velocity estimation. It can be used to determine speed when navigating without GNSS — in buildings, underground, or in any other GNSS-denied environment. The video below shows PX4 holding position using the Ark. CAN (4P GH1. 25mm with DroneCAN protocol) DroneCAN Optical Flow | Vimdrones Can Flow | Ardupilot | PX4 | AP\_Periph 1. 6 | PMW3901 | VL53L1X | Open Source Dronecan Optical Flow and Distance Sensor Module Specification Type Value Power supply 5V Support Flight Controller Firmware Ardupilot | PX4. If the vehicle has a GPS, the inflight calibration procedures is the easiest way to get a good calibration: An alternative method which avoids the need to land and change EKF3 parameters between calibration and testing is to setup GPS/Non-GPS transitions so the pilot can manually change between GPS. ArduPlane, ArduCopter, ArduRover, ArduSub source. I want to say that the ArkFlow is working amazingly, way better than the PX4Flow we had previously. - Alin Grig Have used them and they're top notch! - Ryan Johnston Building a DIY indoor optical flow drone can be difficult if you don't know where to start, but there's good news! In this post, I will break down every

single step required to build your own optical flow drone.

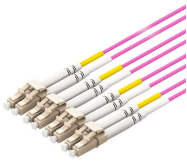
## AP Optical Flow Module



Learn how to make your own indoor optical flow drone, capable of indoor position locks without GPS. You won't believe how easy it is.



Optical Flow uses a downward facing camera and a downward facing distance sensor for velocity estimation. It can be used to determine speed when navigating without GNSS — in buildings, ...



In order to check that you have the lens properly focused you can capture an image directly from the sensor and display it using a simpler viewer written in Python. Install PySerial 2.5. The Windows ...



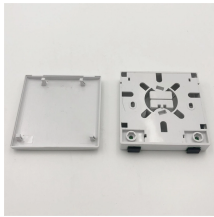
Open Source Dronecan Optical Flow and Distance Sensor Module Specification ... Download:



These are camera modules that use ground texture and visible features to determine aircraft ground velocity. Select the links below for information on the available sensors.



It can be used to correct for variations in effective focal length. Each positive increment of 1 increases the scale factor applied to the X axis optical flow reading by 0.1%. Negative values reduce the scale ...



ArduPlane, ArduCopter, ArduRover, ArduSub source. Contribute to ArduPilot/ardupilot development by creating an account on GitHub.



I want to say that the ArkFlow is working amazingly, way better than the PX4Flow we had previously. More accurate and without the focusing limitation of the PX4Flow, it's really nice. - Alin Grig. Have ...



The full parameter list is below assuming the pilot will engage the calibration using RC input 8 (a 2-position switch) and switch between GPS and Optical flow using RC input 9 (a 3-position switch)



Open Source Dronecan Optical Flow and Distance Sensor Module Specification ...



- Rotate sensor will make sensor in disorder. 1x Optical Flow Sensor V1.0. - Sensor can only work under good lighting condition.

## Contact Us

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