

How to use the optical flow ranging module

This Xpart guide will explain everything you need to know about integrating the MTF-01 Optical Flow and LIDAR Sensor with PX4 and INAV. With ...

Be sure to follow the setup and calibration instructions and parameters for Optical Flow setup and how to switch between outdoor (GPS) and indoor (Optical Flow) ...

Be aware that any comments that are rude, disrespectful or use bullying or threatening language will be deleted. Pedantry isn't encouraged either.

Learn how to set up a rangefinder optical flow sensor in iNav for enhanced FPV drone stability in Position and Altitude Hold modes.

Be sure to follow the setup and calibration instructions and parameters for Optical Flow setup and how to switch between outdoor (GPS) and indoor (Optical Flow) positioning.

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Here Flow is a finger size optical flow sensor. Compared with other optical flow sensors, it is even smaller. It can be installed easily at any position without taking much space. A LiDAR ...

An Optical Flow setup requires a downward facing camera and a distance sensor (preferably a LiDAR). These can be connected via MAVLink, I2C or any other bus that supports the peripheral.

If you just need to use optical flow to fly indoors and don't consider using GPS outdoors, then you only need to configure EK3_SRC1. But if you need to take into account both indoor and outdoor ...

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 ensure good optical flow quality, it is important to focus the camera on the PX4Flow to the desired height of flight. To focus the camera, put an object with text on (e. g. a book) and plug in the ...

It can be used directly after simple configuration without complicated development process. MTF-01 features an integrated PMW3901 optical flow sensor and a high-performance TOF sensor, which can ...



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