

APM Optical Flow Module Debugging



Overview

Cut and resolder the MISOLVL jumper on the back of the board to switch the MISO pin to work on 3. If the sensor is mounted to a stabilized gimbal or mount, set FLOW_OPTIONS bit 1 to "1". To know more about our new products, please visit www.com, we will serve you wh eed for GPS. This is critical to ensure the optical flow sensor does not interfere with APM is a open source flight control system, it is a multifunction system that can support quadrocopter, as well as aircrafts of fixed-wing, three-axis, 6-axis,8 -axis etc. APM flight control is a rather mature technique with formidable capabilities: it supports GPS designated cruise and automatic. Instead please use the PX4Flow sensor. The PX4FLOW is not yet supported in Plane or Rover. These are camera modules that use ground texture and visible features to determine aircraft ground velocity.

Article Content

Jul 02, 2025

Optical Flow Sensor Testing and Setup

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 ...

Aug 11, 2025

Users Manual Optical flow s

After you connect all the board and accessories, please take the first flight at places with wide-open space, please refer to the instructions of APM2.52 or APM 2.6 to operate.

Dec 12, 2025

Arduino Optical Flow Sensor Board ANDS3080 to APM 2.6

Then you look at the pins beside A11, there are 6 pins which are not analog pins, and you will be able to connect the MISO, MOSI and CLK pins to the optical flow.

Mar 13, 2026

Asociación Puertorriqueños en Marcha (APM) - Philadelphia, PA

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Sep 04, 2025

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Jan 14, 2026

Optical Flow Sensor Testing and Setup

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)

Mar 27, 2026

PX4FLOW Optical Flow Camera Board — Copter documentation

The PX4FLOW (Optical Flow) Sensor is a specialized high resolution downward pointing camera module and a 3-axis gyro that uses the ground texture and visible features to determine aircraft ...

Oct 28, 2025

APM 2.52 Flight Controller Board

When APM board receives the unlock signal, it will inspect itself and the red light will begin blinking. If the self-inspection passes, the unlock process succeeds, and the red light will be normally on.

Nov 15, 2025

Lua Scripts — Copter documentation

Upload scripts (files with extension .lua) to the autopilot's SD card's APM/scripts folder. If this folder does not exist, you can create it by setting SCR_ENABLE to 1 and rebooting. This folder can also be ...

Dec 15, 2025

Optical Flow Sensors (landingpage) — Copter documentation

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.

Jul 19, 2025

North America | APM

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Jun 23, 2026

Elizabeth

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May 11, 2026

Los Angeles

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May 21, 2026

ARCHIVED:Mouse-based Optical Flow Sensor (ADNS3080)

Copter-3.2.1 on APM2.x boards included limited support for the mouse sensor based Optical Flow sensor using the OF_Loiter flight mode. This sensor is not supported in recent versions of the ...

Aug 07, 2025

PX4FLOW Optical Flow Camera Board — Copter ...

The PX4FLOW (Optical Flow) Sensor is a specialized high resolution downward pointing camera module and a 3-axis gyro that uses the ground texture and ...

Nov 04, 2025

Optical Flow Sensor test program in not working

Hi, I am using apm2.5 with ntn motors n turnigy plush 30A esc, recently I bought Optical Flow Sensor and i gave the connections as per given in forum and i did the changes on apm2.5 also, ...

Dec 16, 2025

Track and Trace

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For more information, pricing, or custom solutions, please contact us:

Website: <https://professionistidelverde.it>

Email: info@professionistidelverde.it

Phone: +49 176 4829 3715

Address: Friedrichstraße 123, 10117 Berlin, Germany

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