The ADNS 3080 Optical Flow Sensor and using an optical mouse for a sensor.

Link to ADNS3080 sensor from eBay

<http://www.ebay.com/itm/142221549096?_trksid=p2060353.m2749.l2649&ssPageName=STRK%3AMEBIDX%3AIT>

| >Description |
| --- |
| * Connect VCC, GND, MISO, MOSI, SCLK and NCS pins as shown in the diagram below (it's a standard [http://www.instructables.com/id/Adding-ICSP-header-to-your-ArduinoAVR-board/step3/ICSP-header-pinout/] ICSP header). * Default mounting is lens pointing down, pins forward. * Size: 3.3cm x 2.5cm x 2.7cm. * Note: Open the lens before use, remove the protective film. * **Package includes:** * 1PCS Optical Flow Sensor APM2.5 improve position hold accuracy Multicopter ADNS 3080 L |

Possible Arduino Code:

<https://github.com/Selmaan/SPI_Mouse_Control>

<https://github.com/Lauszus/ADNS3080>

<https://github.com/shimniok/ADNS3080>

Possible Library:

<https://github.com/queezythegreat/arduino-cmake-tests/tree/master/libraries/AP_OpticalFlow>

Motion Detection with computer mouse

<https://www.youtube.com/watch?v=SXQfT7c-9rU>

<http://www.homofaciens.de/technics-base-circuits-computer-mouse_en.htm>