

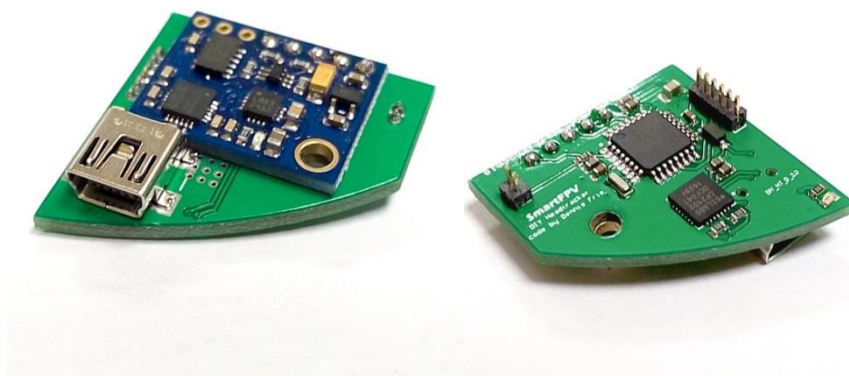
Open Source HeadTracker by **SmartFPV** for Dennis Frie open source project

RCG thread: <http://www.rcgroups.com/forums/showthread.php?t=1677559>

FPVLAB thread: <http://fpvlab.com/forums/showthread.php?7706-DIY-headtracker>

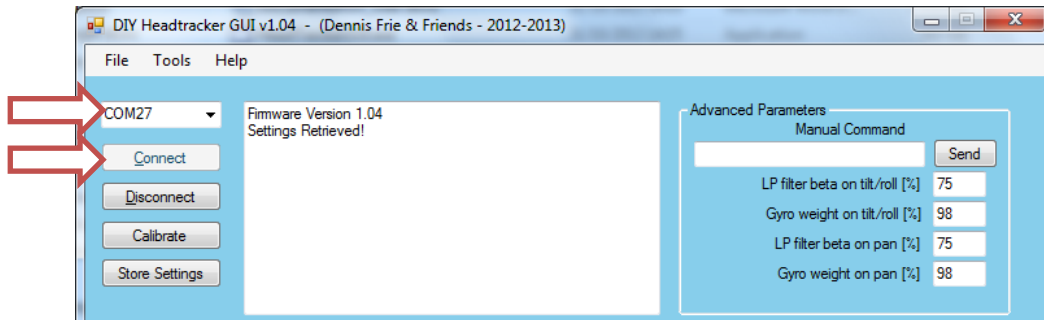
This is Headtracker hardware for Dennis Frie open source DIY headtracker project that fits FatShark Dominator and other goggles having same module port.

It uses Fatshark Headtracker button for centering/pause and also has ability to use integrated buzzer in goggles.

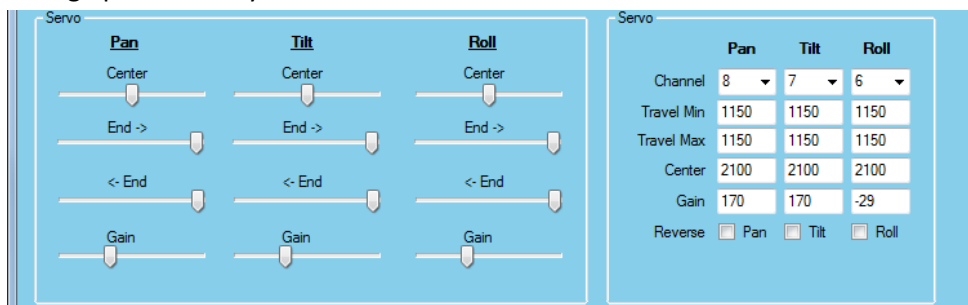


Configuration

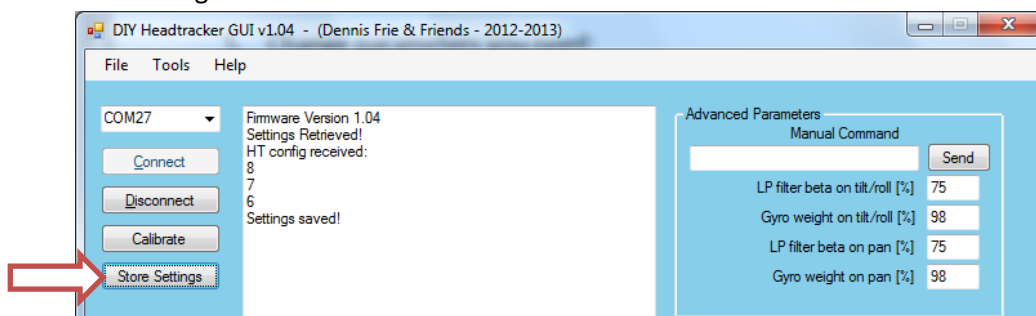
1. Install USB drivers if not done already:
<http://www.silabs.com/products/mcu/pages/usbtouartbridgevcpdrivers.aspx>
2. Download DIY Headtracker Source and GUI software:
<https://code.google.com/p/open-headtracker/downloads/list>
3. Install headtracker module in goggles.
4. Connect Headtracker to PC using mini USB cable. And wait while drivers are installed.
5. Start Headtracker GUI software on PC and connect to Headtracker using correct COM port:



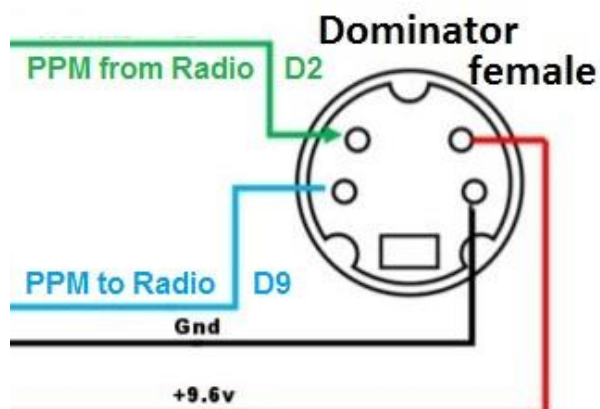
6. Change parameters you need:



7. Save changes:

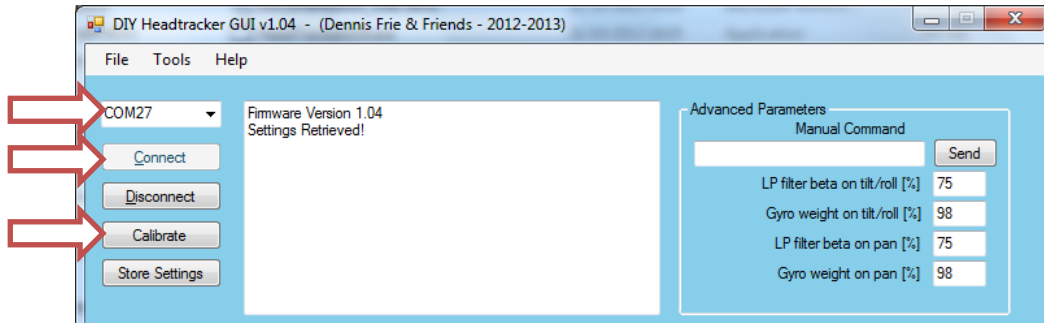


8. Connect goggles to RC Transmitter using original cable or make your own:

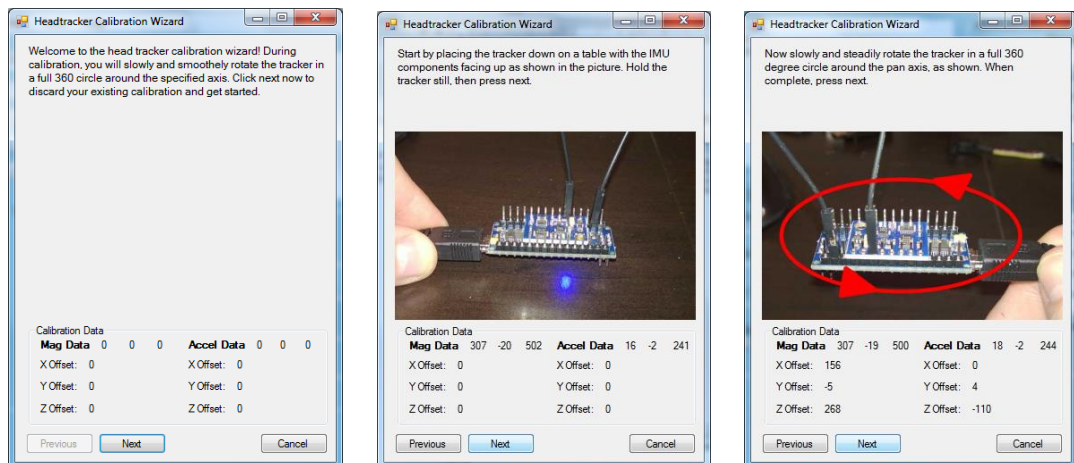


Calibration

1. Start Headtracker GUI software on PC and connect to Headtracker using correct COM port. Then press Calibrate:

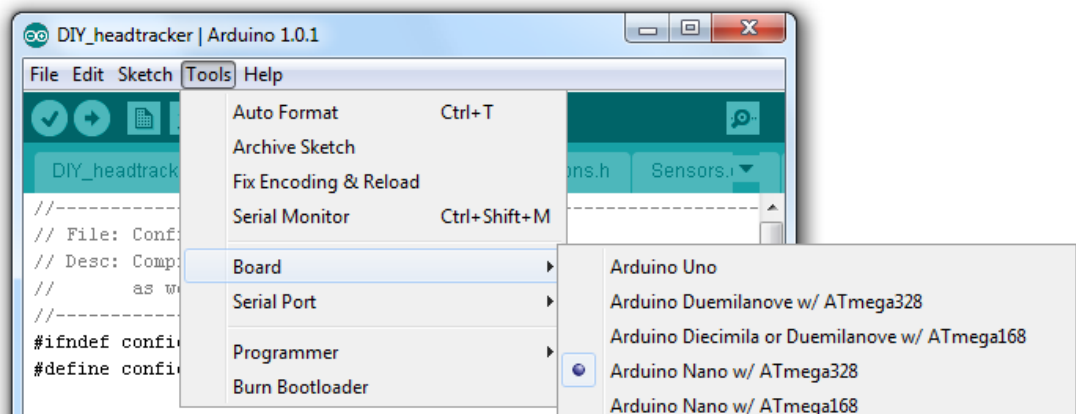


2. Follow instructions in GUI:



Load firmware

1. Download DIY Headtracker Source and GUI software: <https://code.google.com/p/open-headtracker/downloads/list>
2. Connect Headtracker to PC with mini USB cable.
3. Open Headtracker Arduino sketch, select board "Arduino Nano w/ATmega328" and correct COM port:



4. Remove two slashes before " #define FATSHARK_HT_MODULE 1" line in Config.h file.
5. Change additional settings in Config.h file if needed and upload to Headtracker board.