



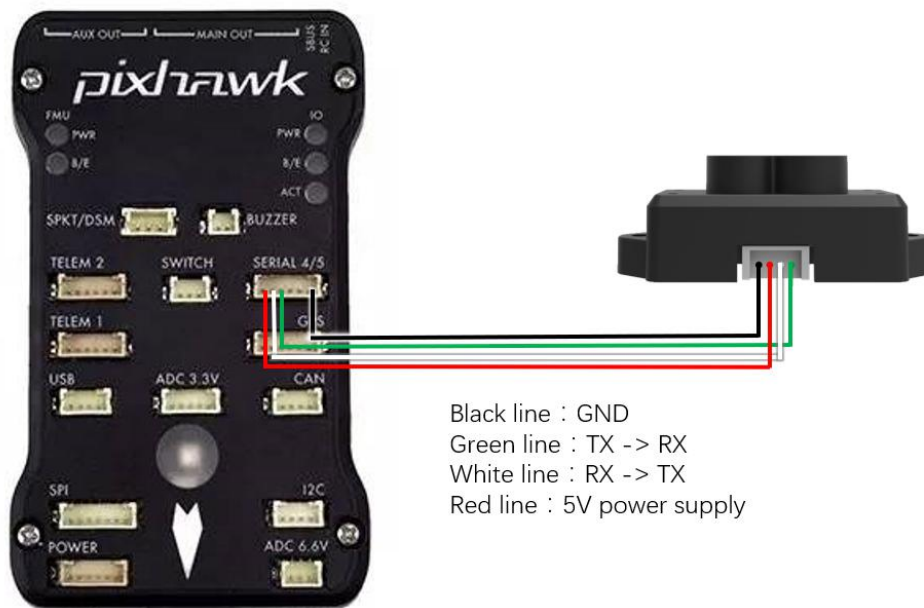
Application of TFmini in PX4

www.benewake.com
Benewake (Beijing) Co., Ltd.

PX4 is popular and used by a lot of customers. TFmini is popular in the LiDAR market. This article introduces the detail application of TFmini in PX4. This article is based on QGroundControl v3.4.4 and PX4 v1.8.2, any incomplete function at customer side should be upgraded in Ground Control Station and firmware.

I Hardware connection

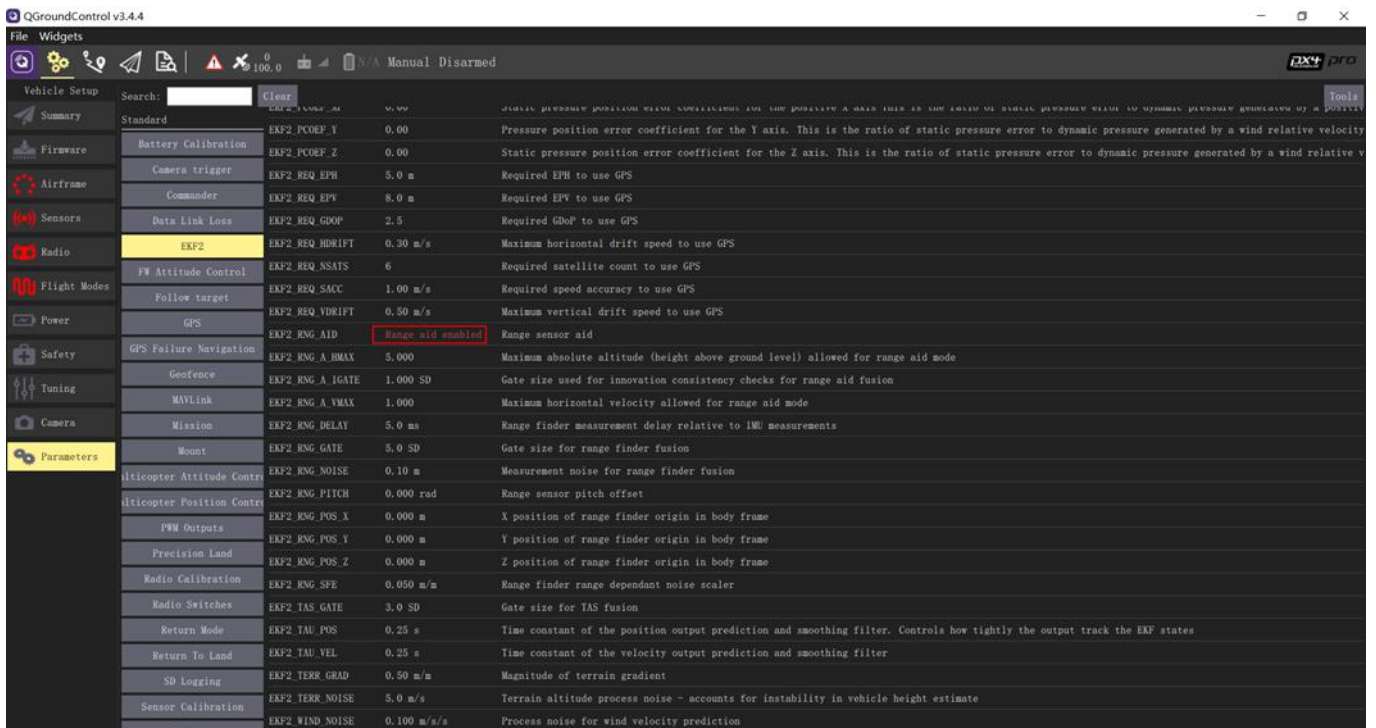
We take Pixhawk as an example for connection, see following picture:



Please install TFmini on the aircraft and make sure it's firm, lens should face downward and there is no obstacle before that, it should be at least 30cm between TFmini lens and ground!

II Software setting

1. Choose *Setting--Parameters--EKF2--EKF2_RNG_AID*, select *Range aid enabled*, see the following picture:



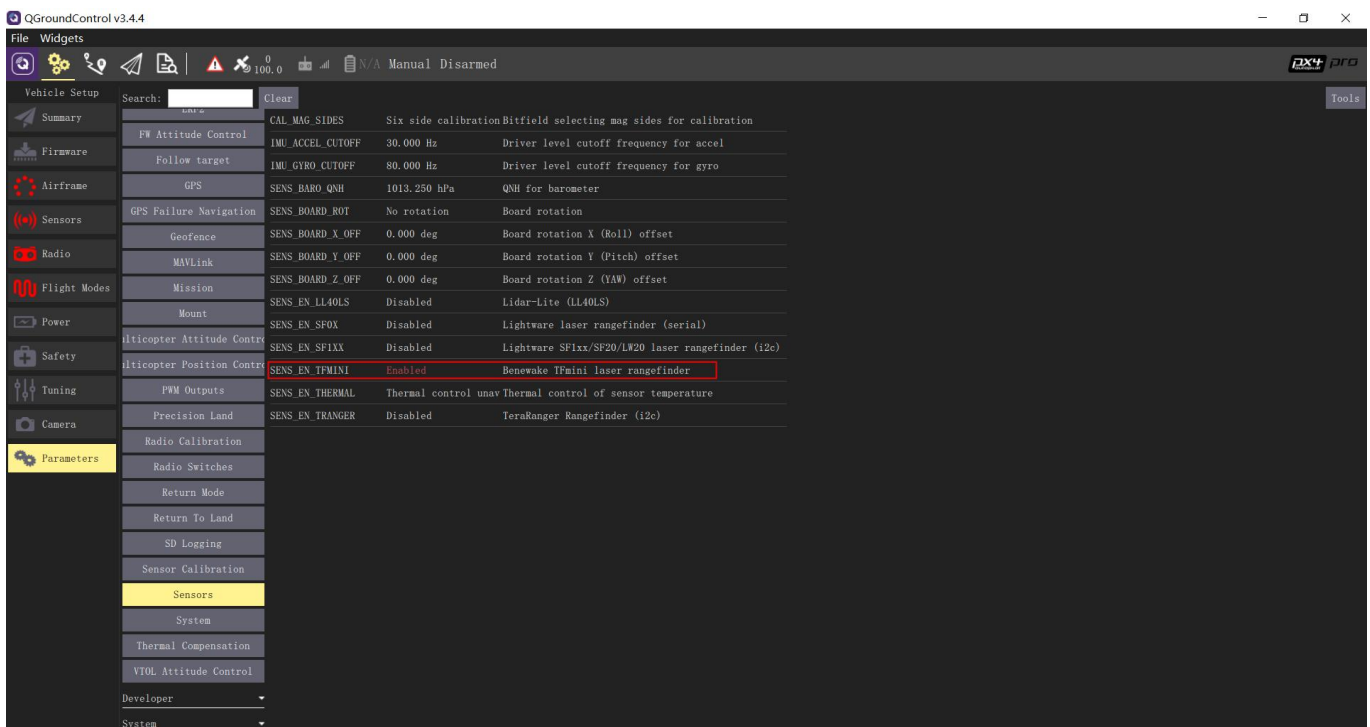
Customer setting:

(1)EKF2_RNG_A_VMAX

(2)EKF2_RNG_A_HMAX

Detail description could be found at the parameters place.

2.Select Setting--Sensors--SENS_EN_TFMINI, select Enabled,see the following picture:



2. TFmini measurement result will be displayed on the panel, see the following picture:

