

Application of TF02 in PX4

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PX4 is popular and used by a lot of customers. TF02 is popular in the LiDAR market. This article introduces the detail application of TF02 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

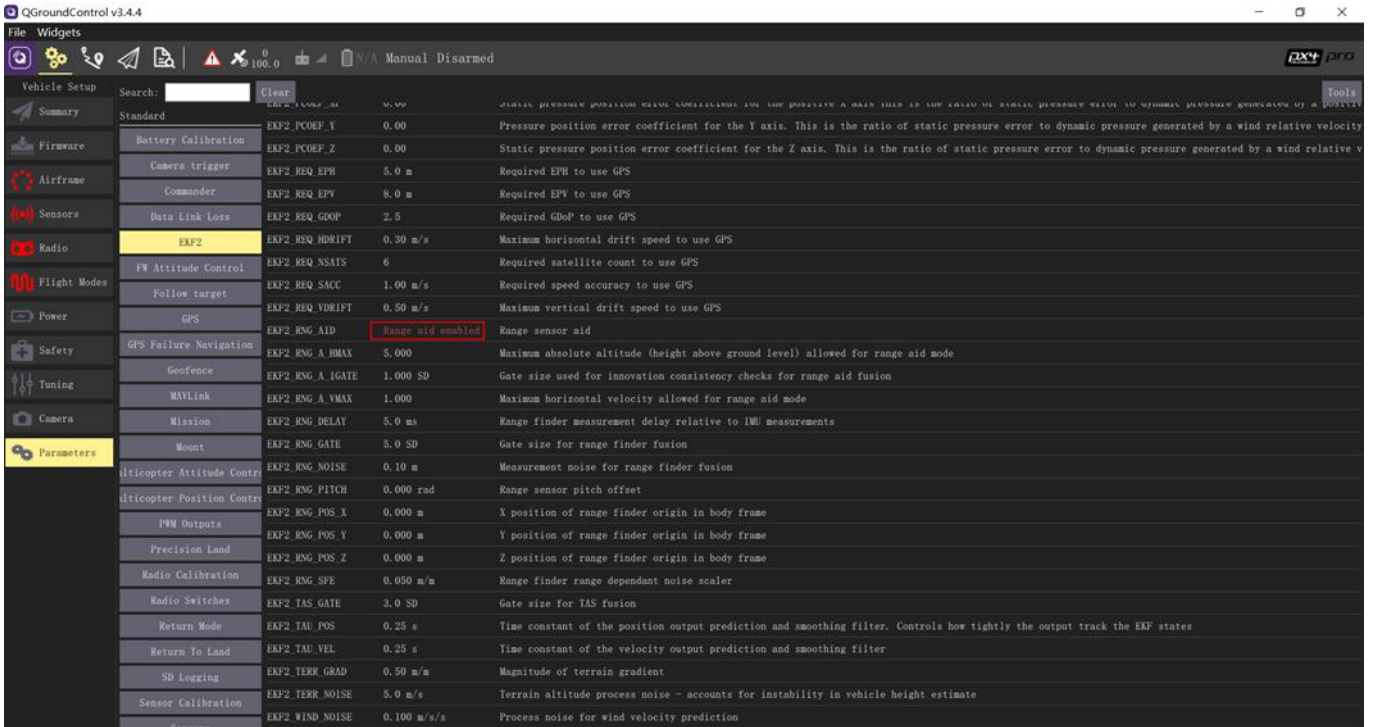
We take Pixhawk as an example for connection, see following picture:



Please install TF02 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 40cm between TF02 lens and ground!

II Software setting

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



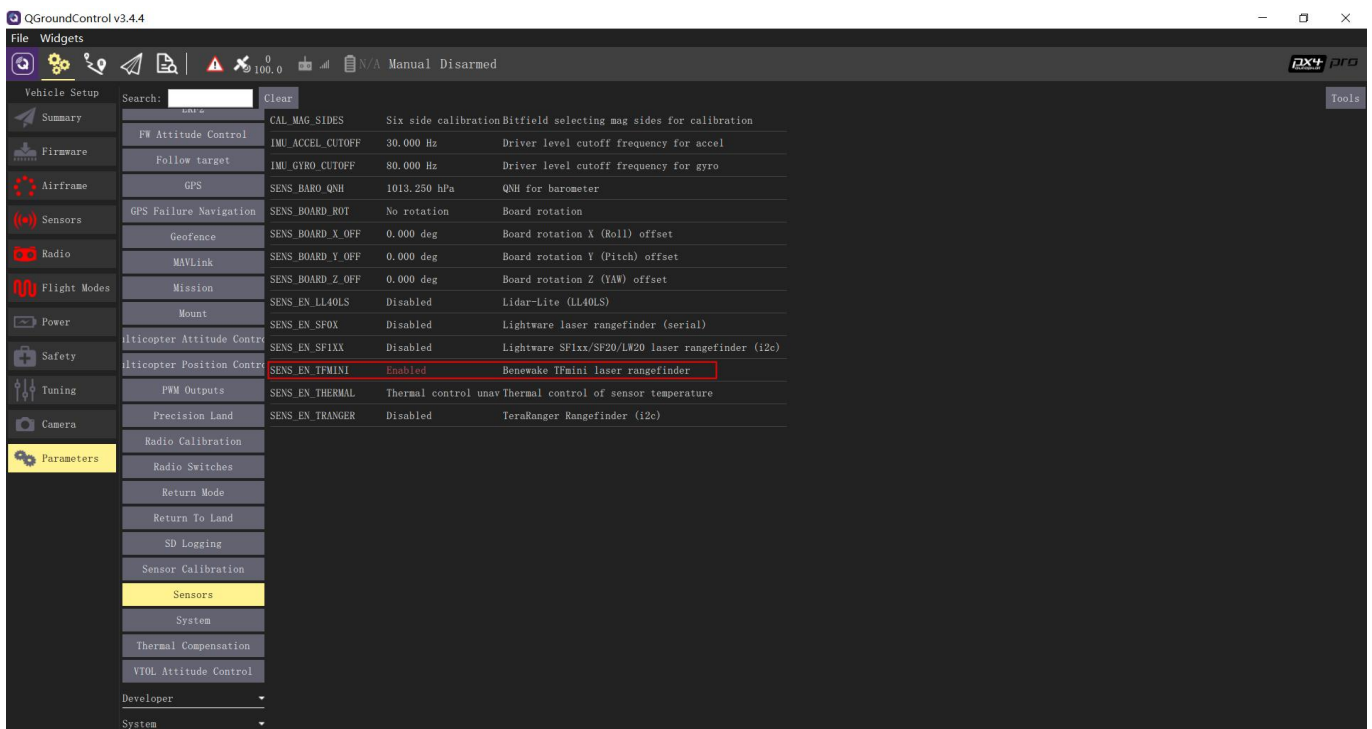
Customer setting:

(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. TF02 measurement result will be displayed on the panel, see the following picture:

