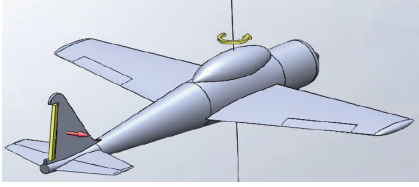
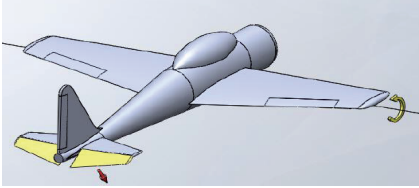


Action rudder reference

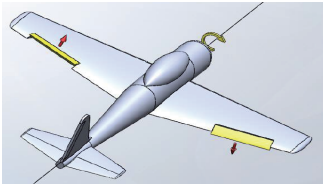
RUD : Aircraft rotates CCW, heading rudder right side, trying to get the aircraft back to the original course



ELE : Aircraft rise elevator down side, trying to get the aircraft back to the horizontal state



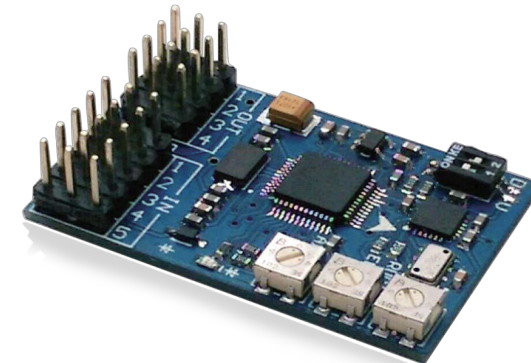
AIL : Right aircraft, lower right aileron left, trying to get the aircraft back to the horizontal state



NB ONE

Product Instruction V3.1

2016.01



You can check the latest version on the Aeritech official website
www.aeritech-uav.com

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Dimensions: 40mm*25mm*5mm

Weight: 4g

Operating voltage: DC 5V-16V

Operating current: 20mA

Operating temperature: -15 C-65 C

Max angular rate : 2000 degree / sec

Servo compatibility: 1.52ms analog servo、1.52ms digital servo

Radio compatibility: PPM, PCM, 2.4G

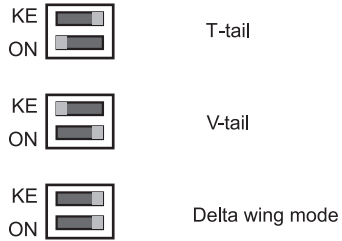
AERITECH

Product Feature

- Can be used for V-tail and T-tail and Delta wing model
- Three kinds of flight mode: Attitude mode, Manual mode and Altitude hold mode
- Built-in 6 axis gyro and barometer, can exactly control flying status and height

Assembly guide

1. Switch the plane model:



*If shield be removed, please set according to KE and ON.

2. Connect the servo and flight control:

- connect the signal wire to THR-OUT for all kinds model

Aileron servo 1 — AIL_OUT_1
 Aileron servo 2 — AIL_OUT_1
 Elevator servo — ELE_OUT_2
 Rudder servo — RUD_OUT_4

T-tail and V-tail

Aileron servo 1 — AIL_OUT_1
 Aileron servo 2 — ELE_OUT_2
 Rudder servo — RUD_OUT_4
 (don't connect this channel if not rudder servo)

Delta wing mode

3. Connect the receiver and flight control:

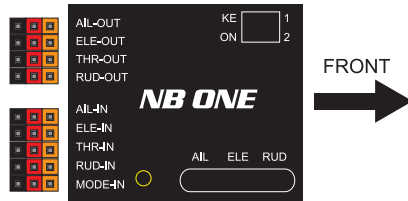
- Ready one set of radio with the fifth channel, set the Fixed wing mode.

Connect the wire as below:

AIL_IN_1 <--> AIL
 ELE_IN_2 <--> ELE
 THR_IN_3 <--> THR
 RUD_IN_4 <--> RUD
 MODE_IN_5 <--> FlightMode

- Must connect all 5 cables between receiver and NB ONE no matter you use rudder or not, or you cannot control the plane.

4. If shield be removed, please set according to KE and ON.



- *The arrow shows the front direction of NB ONE. Please stick NB ONE at level position of your plane and keep away from turbulence.

Neutral check:

- power on
 Before power on you don't need assembly the propeller.
 After connect the battery, please don't touch the plane and wait 8 seconds, until the Initialization is ok and hear the sound of the motor start. If not follow this instruction the auto balances function will not work well.

LED Status	Flight Mode
OFF	Manual Mode
ON	Attitude Mode
Flash quickly	Altitude Hold Mode

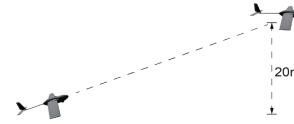
- Check the radio

As below picture push the THR at the bottom and other at the middle position, then quickly switch the Flight Mode more than six times, The Neutral check OK.



Attention

- *After Neutral check the aileron will up and down twice, that show the neutral check is ok.
- *Don't need to adjust the fine tune to keep the servo arm at right position.
- *Must do the neutral check again after change the radio and move the rocker.



Function introduce

Altitude hold mode:

At this mode, the plane can keep the height of 20 meters, when lower than this height, it will climb this height again. Switch this mode and push the throttle about 10%, then it can direct take off, the plane will auto climb, reduce the accident rate when taking off.
 At this mode, the throttle will keep at 45%, and when the height lower than 20 meters, the throttle will auto rise to 70%.

Attention:

*At this mode you also can adjust the height and increase throttle, when you release the rocker it will set auto height again.

Attitude mode:

At this mode the plane will level flight after you release all the rocker

Manual mode:

At this mode you can control the plane directly by yourself.

Gain adjust:

NB one offers three Trimming Potentiometers to control the gyro gain of pitch, roll and yaw, clockwise for increase, anticlockwise for decrease. Also the Trimming Potentiometers can adjust the servo reverse. As below picture:

Attention

Pitch up the airplane, the elevator should go down. Roll the airplane to one side, the aileron should go to the opposite direction. Otherwise, revolve the Trimming Potentiometers.
 General we will set the knob at two o'clock or ten o'clock position.

