SHURIKEN 250

Quick Start Guide

Features

IMU inner dampin built-in

Integrated Flight Controller
pre-loaded with Cleanflight

Integrated 40 channel 5.8GHz Video Tx

Intergrated MWOSD

Ultra-thin & integral profile with lower air resistance
and more solid structure

VTx power switch 25mw/600mw
easy switch when racing

7-segment display for VTx band switching
more intuitive and convenient for adjusting

Flight Controller

IMU
MPU6050, 3 axis Gyro, 3 axis Accelerometer

Firmware
Cleanflight

CPU
STM32F303 32-bit-cortex M4 core processor

Video TX Features

Transmitter Module
Integrated,5.8GHz module

Channels
40 Initially

Bands
5, including RaceBand

Power Output
25mw or 600mw

Weight and Size

Weight, as shipped, ARF
~465g

Weight, Typical RTF
*~617 g with 1300mAh 4s pack
and SPK.Sat.receiver*

Size
250mm between diagonal motors

Power

Standard prop
5045

Race Motors
2205-2550kv

Recommended Battery
1300mAh 4S

ESC

Type
Blheli

Rating
30A continuous, 40A peak 2~4s

Feature
Oneshot 125, and Motor Braking

Camera

Video Standard
*PAL or NTSC, switchable using
a camera-mounted jumper*

CMOS
700 TVL

R/C Receiver

Channel Required
*Absolute minimum four
Five recommended to support mode switch*

Interface
5v S.Bus, 3.3v SPK.Sat, or 5V PPM sum

Step One:

Bind or install compatible R/C receiver

DSMX binding Procedures
   Power on the Shuriken250
   then press the bind button,
   the DSMX.sat receiver will enter the binding mode

FASST binding Procedures
1   Turn on the transmitte
    press the bind button and power on the Shuriken250
    the LED will blink red when the aircraft is ready to bind
2   Release the Bind button, the LED will blink
    red and green alternately for a while
    and then stay green
    which indicates the binding is successful
3   Please try again if it doesn't work.
   A still red LED means the binding is not done properly

Frsky RX bind Proceures
1   Turn on the TARANIS
     and enter the bind mode (MENU>PAGE>⊕...find 'Bind'>ENT)
2   Connect battery to the Shuriken holding bind button on the Shuriken
     The LED on the reciever will flash
     indicating the binding process is completed
3   Turn off both the transmitter and the receiver
4   Turn on the transmitter and connect the battery
     the green LED on the receiver indicates the binding is successful.

Cautions:

When the binding is done,
Please check the directions of each channel on the transmitter
Before you unlock and fly it,
Make sure the directions are all correct
Dangerous situations will arise if the direction is reversed

Shuriken250Pro is also compatible with CPPM receivers
you can setup on Cleanflight configurator
It is not compatible with standard R/C receivers
with multiple channels of PWM out
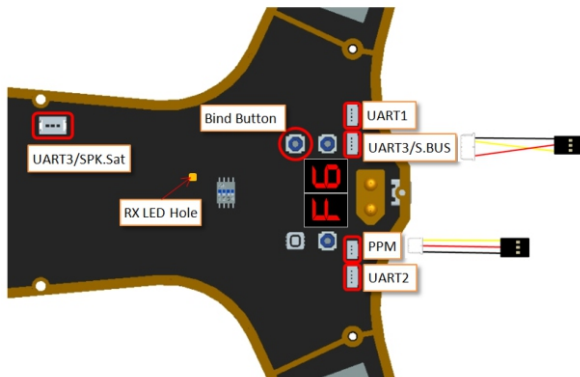
Step Two:
Setup the Video Link

1 The Shuriken 250 uses a button
   to define video TX channels

2 The Shuriken 250 ships
   with a default TX frequency of 5740 MHz
   which corresponds to FatShark frequencies
   Channel 1

3 To switch bands
   press the button, hold 2 seconds and release

4 To switch channels
   short press the button

5 The left 7-segment display is band number
   the right 7-segment display is channel number

BAND   CHANNEL

		1	2	3	4	5	6	7	8
F	IRC/FS	5740	5760	5780	5800	5820	5840	5860	5880
C	RaceBand	5658	5695	5732	5769	5806	5843	5880	5917
E	Band E	5705	5685	5665	5645	5885	5905	5925	5945
B	Band B	5733	5752	5771	5790	5809	5828	5847	5866
A	Band A	5865	5845	5825	5805	5785	5765	5745	5725

Step Three:

Setup the flight controller
via Cleanflight configurator

▰ Install latest Silicon Labs CP2102 USB
   to UART Bridge VCP Drivers
   http://www.silabs.com/products/mcu/pages
   /usbtouartbridgevcpdrivers.aspx

▰ Install and launch the Cleanflight Configurator tool
   https://chrome.google.com/webstore/detail
   /cleanflight-configurator/enacoimjcgeinfnnnpajinjgmkahmfgb

▰ Connect Shuriken 250 to computer via USB cable

▰ Select the correct COM port
   if it is not automatically detected

▰ Click connect, verify that communication is established.

   How to play:
   http://cleanflight.com/
   http://www.rcgroups.com
   /forums/showthread.php?t=2249574

USB Function Switch

USB
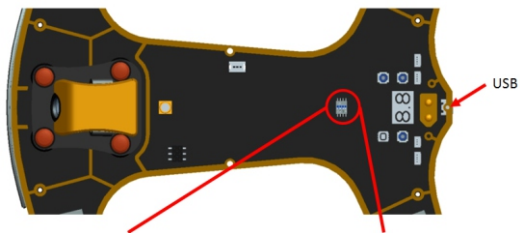
USB for Flight Controller

ON			WP
1	2	3	4

USB for OSD configuration

ON			WP
1	2	3	4

OSD ON/OFF Switch

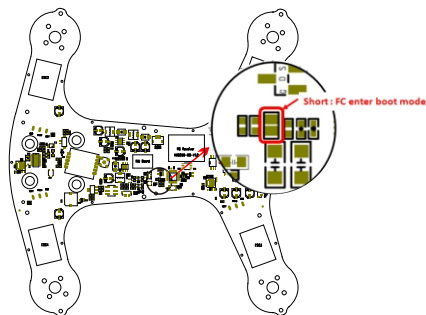Press button to switch OSD on/off

Vtx power switch 25mw/600mw

600mw Mode

25mw Mode
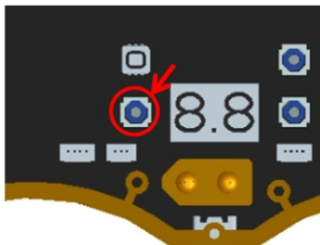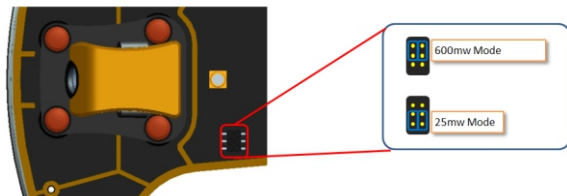
The out put of VTx is available
for 25mw and 600mw
you can choose the output value
for VTx using the jumper

How to enter boot mode

Short : FC enter boot mode

Firmware Upgrade

Click the Firmware Flasher tab
▼
Select the latest SPRacingF3 stable release
▼
Set the flashing baud rate to 256000
▼
Click 'Load firmware [Online]'
and wait for firmware to download
and read release notes
▼
Click 'Flash Firmware'
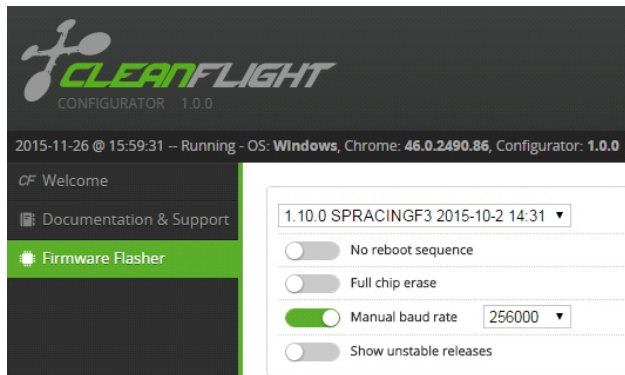
https://www.facebook.com/holybrohobby/

Made in China