SHURIKEN 180

Quick Start Guide

Features

IMU inner dampin built-in

Integrated Flight Controller
pre-loaded with Cleanflight

Integrated 40 channel 5.8GHz Video Tx

2 versions available:
either DSMX or Fasst
compatible receiver included, bind and fly!

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

1806 motor with 3mm shaft for longer working life
and more crash resistance

Technical Specification

Flight Controller

IMU
MPU6050, 3 axis Gyro, 3 axis Accelerometer

Firmware
Cleanflight

CPU
STM32F303 32-bit-cortex M4 core processor

* Altimeter
Ms5611

* Compass
HMC5883

If there is no special note
the shipment will not have this IMU Included

Video TX Features

Transmitter Module
Integrated,5.8GHz module

Channels
40 Initally

Bands
5, including RaceBand

Power Output
600mw

Recommended Antenna
4 leaf

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

Technical Specification

Power

Standard prop
4040/4045

Race Motors
1806-2300kv

Recommended Battery
850mAh 3S, 1000mAh 4S

ESC

Type
Blheli

Rating
20A continuous, 30A peak

Feature
Oneshot125, and Motor Braking

Camera

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

CMOS
800 TVL

Weight and Size

Weight, as shipped, ARF
~240g

Weight, Typical RTF
~330g with 1000mAh 3s pack and SPK. Sat reciever

Size
180mm between diagonal motors

Step One

Bind or install compatible R/C receiver

We have had a DSMX.SAT
(or FASST compatible receiver as alternative)
on the Shuriken180 when it is delivered
you may bind it with your transmitter

DSMX binding Procedures

Power on the Shuriken180
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 Shuriken180
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

Shuriken180 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 Shuriken180 uses a button
to define video TX channels

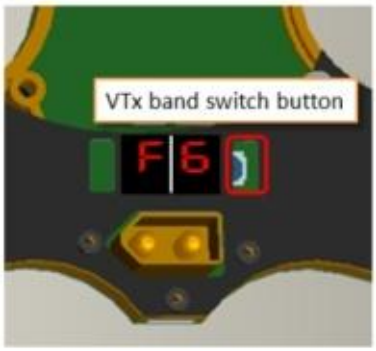
2 The Shuriken180 ships
with a default TX frequency of 5740MHz
which corresponds to FatShark frequencies
Channel 1

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

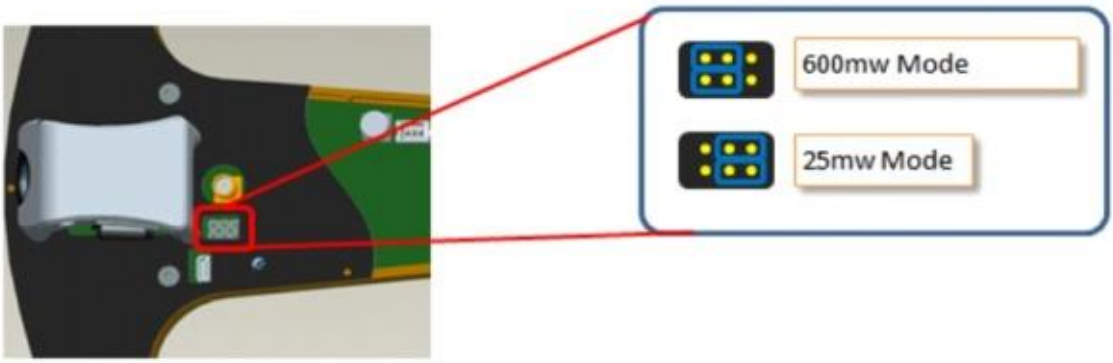
Step Three

Setup 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 180 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

Vtx power switch 25mw/600mw



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

Firmware Upgrade

Click the Firmware Flasher tab

▼

Select the latest SPRacingF3 stable release

▼

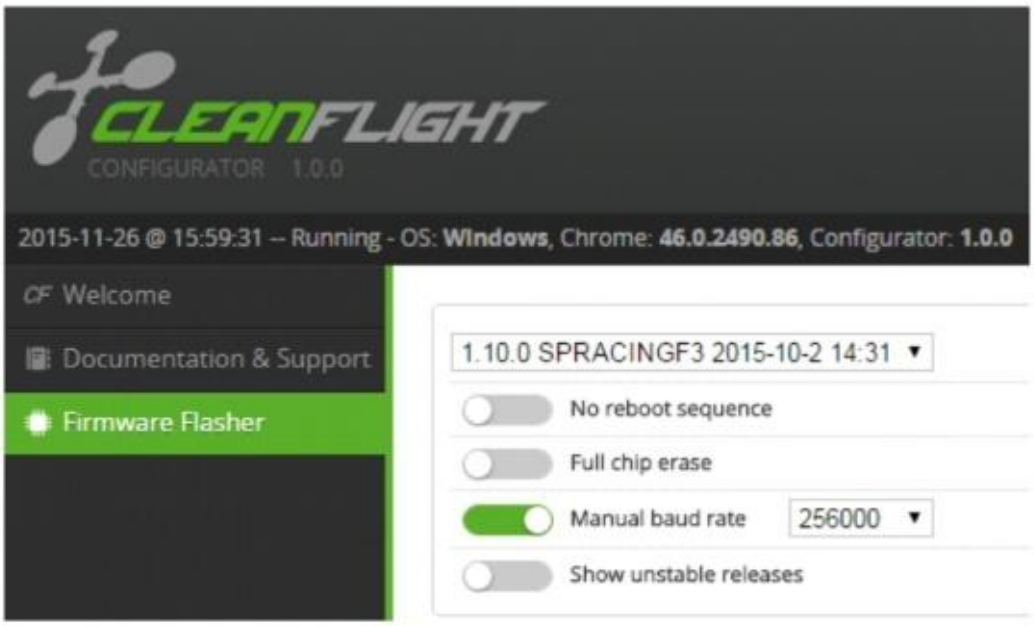
Set the flashing baud rate to 256000

▼

Click 'Load firmware [Online]'
and wait for firmware to download
and read release notes

▼

Click 'Flash Firmware'



Warning:
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which thereceiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

"This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body."

https://www.facebook.com/holybrohobby/

Made in China