

SHURIKEN 180

Quick Start Guide

Flight Controller

IMU

MPU6050, 3axis Gyro, 3axis 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 Initially

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

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 3spack 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 transmitters
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	5685	5905	5925	5945
B	Band B	5733	5752	5771	5790	5809	5828	5847	5866
R	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.

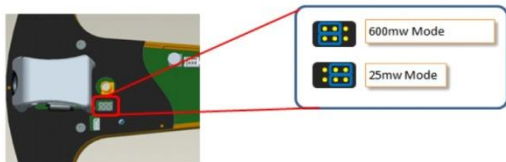
How to play:

<http://cleanflight.com/>

<http://www.rcgroups.com>

[/forums/showthread.php?t=2249574](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



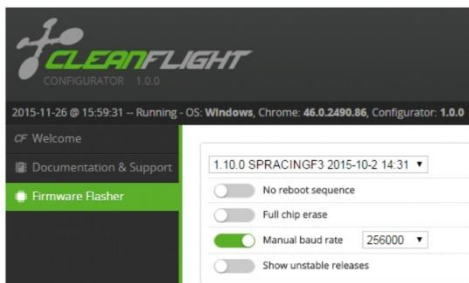
Set the flashing baudrate to 256000



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



Click 'Flash Firmware'





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