

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, 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

Technical Specification

Power

- Standard prop
4040/4045
- Race Motors
1806-2300kv
- Recommended Battery
850mAh, 3S, 1000mAh, 4S

ESC

- Type
Biheli
- 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

Unboxing to Racing

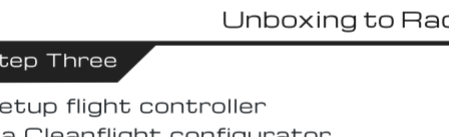
Step One

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 transmitter
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 CPM receivers
you can setup on Cleanflight configurator
it is not compatible with standard R/C receivers
with multiple channels of PWM out



Unboxing to Racing

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



		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	BandE	5705	5685	5665	5645	5885	5905	5925	5945
B	BandB	5733	5752	5771	5790	5809	5828	5847	5866
R	BandA	5865	5845	5825	5805	5785	5765	5745	5725

Unboxing to Racing

Step Three

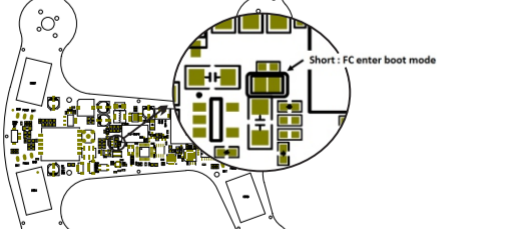
Setup flight controller via Cleanflight configurator

- 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/enacoimjcgieinfnnpajinjgmkahmfgb>
- Connect Shuriken180 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>

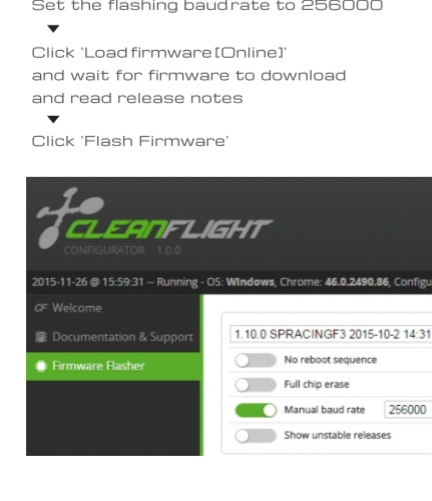
Appendix

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

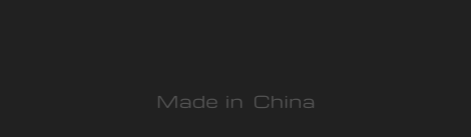
How to enter boot mode



Appendix

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'



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

Made in China