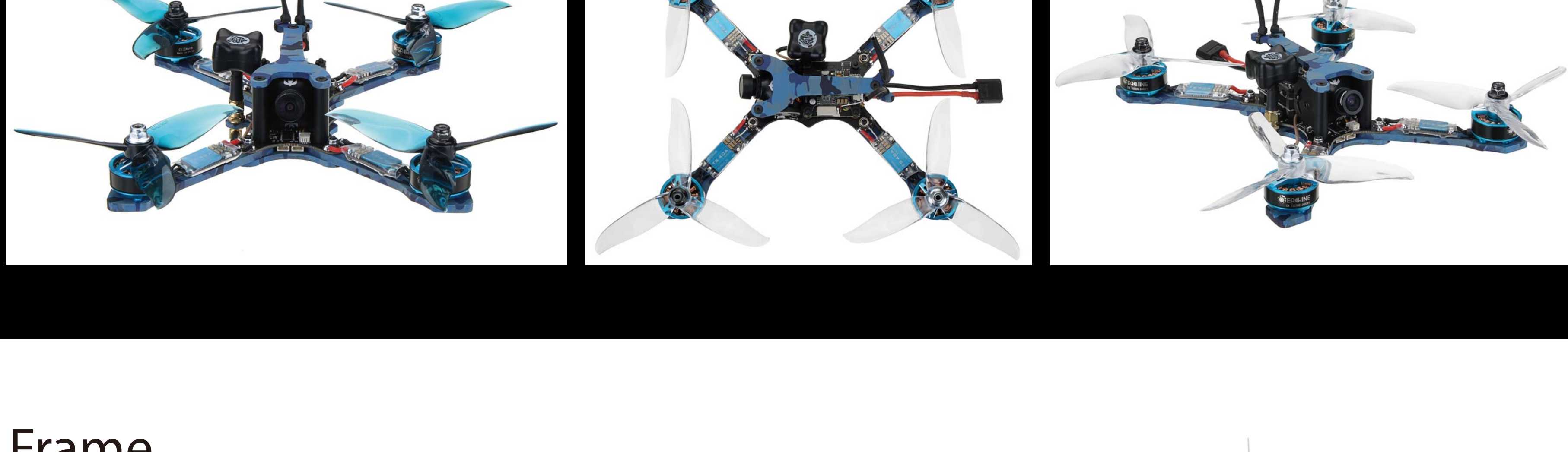


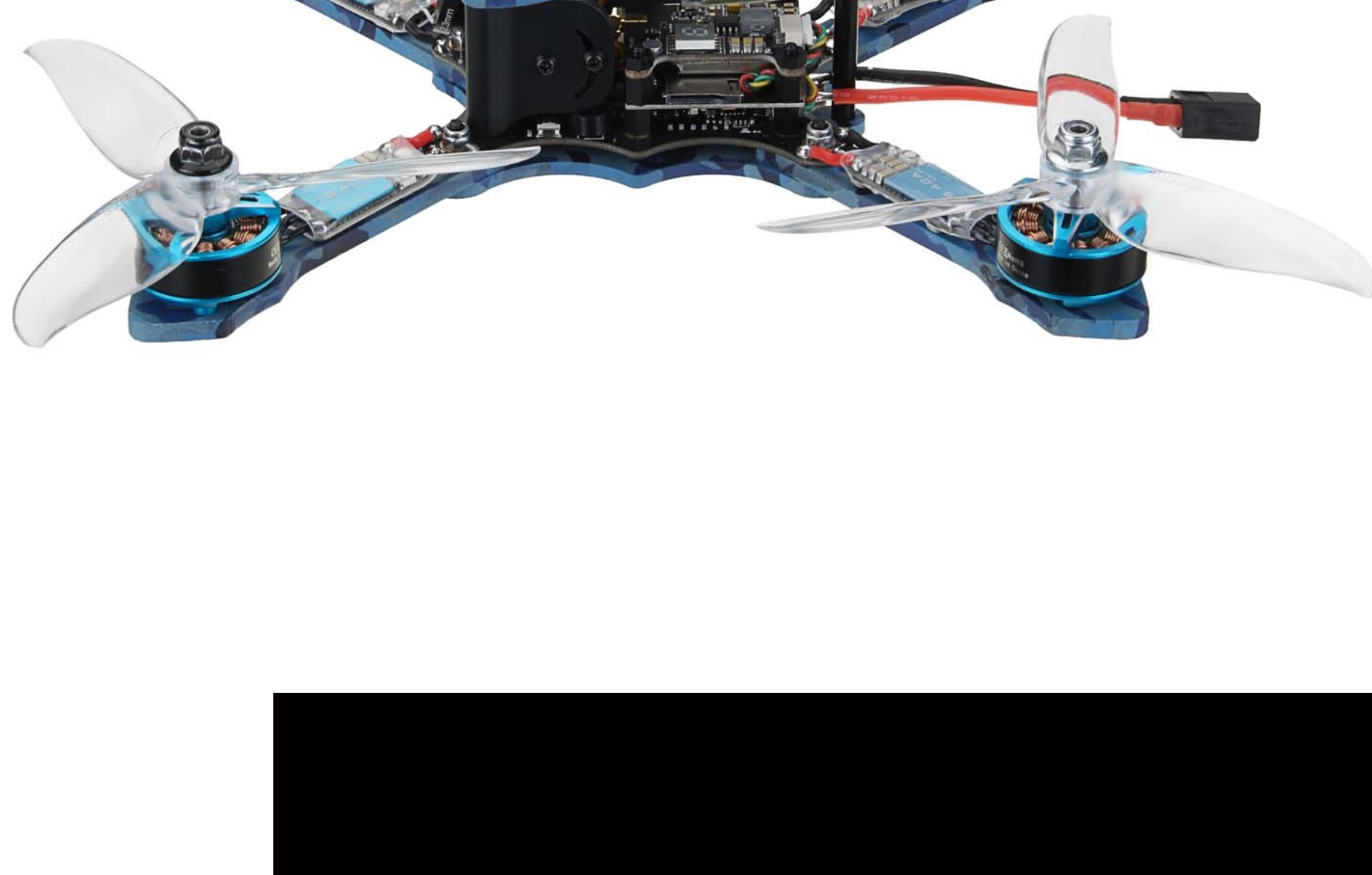
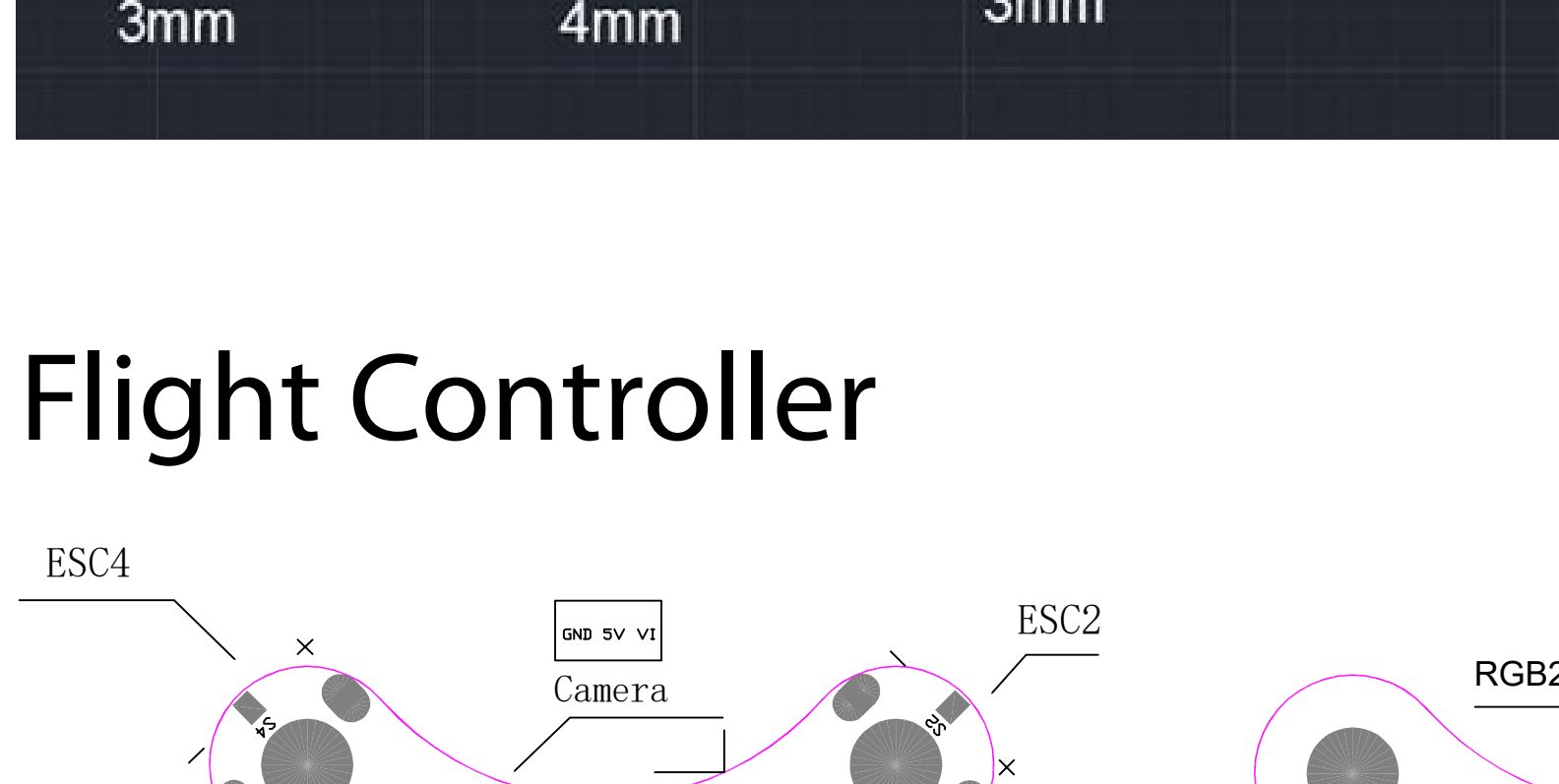
TS215



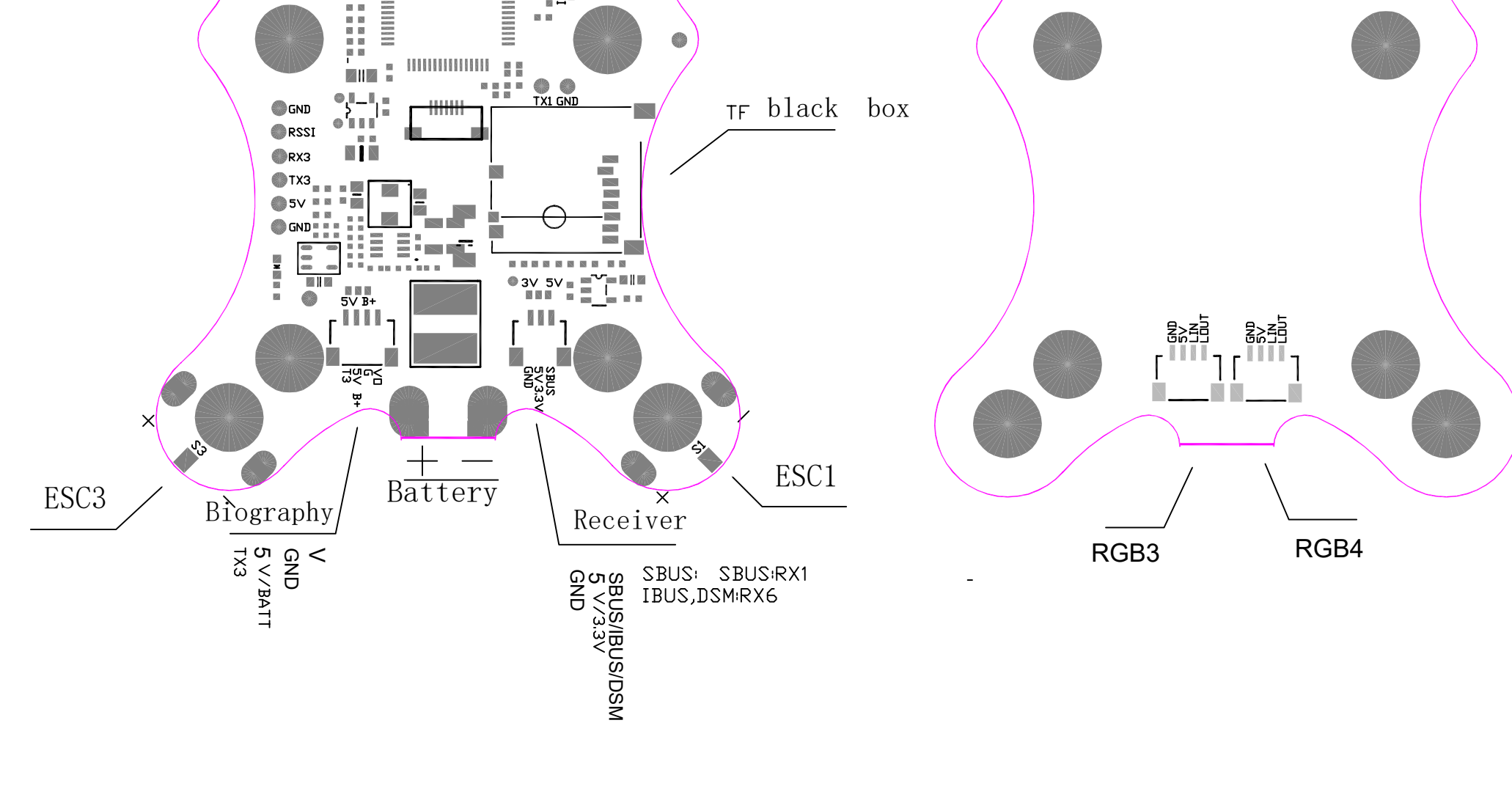
Frame

Material: 3K pure carbon water transfer
Wheelbase: 215mm

Detailed plate thickness reference below:



Flight Controller



ESC

Product features:

- The 32 bit STM32F051 high speed control chip is used.
- 60A import MOS tube.
- Three in one drive to ensure stability.

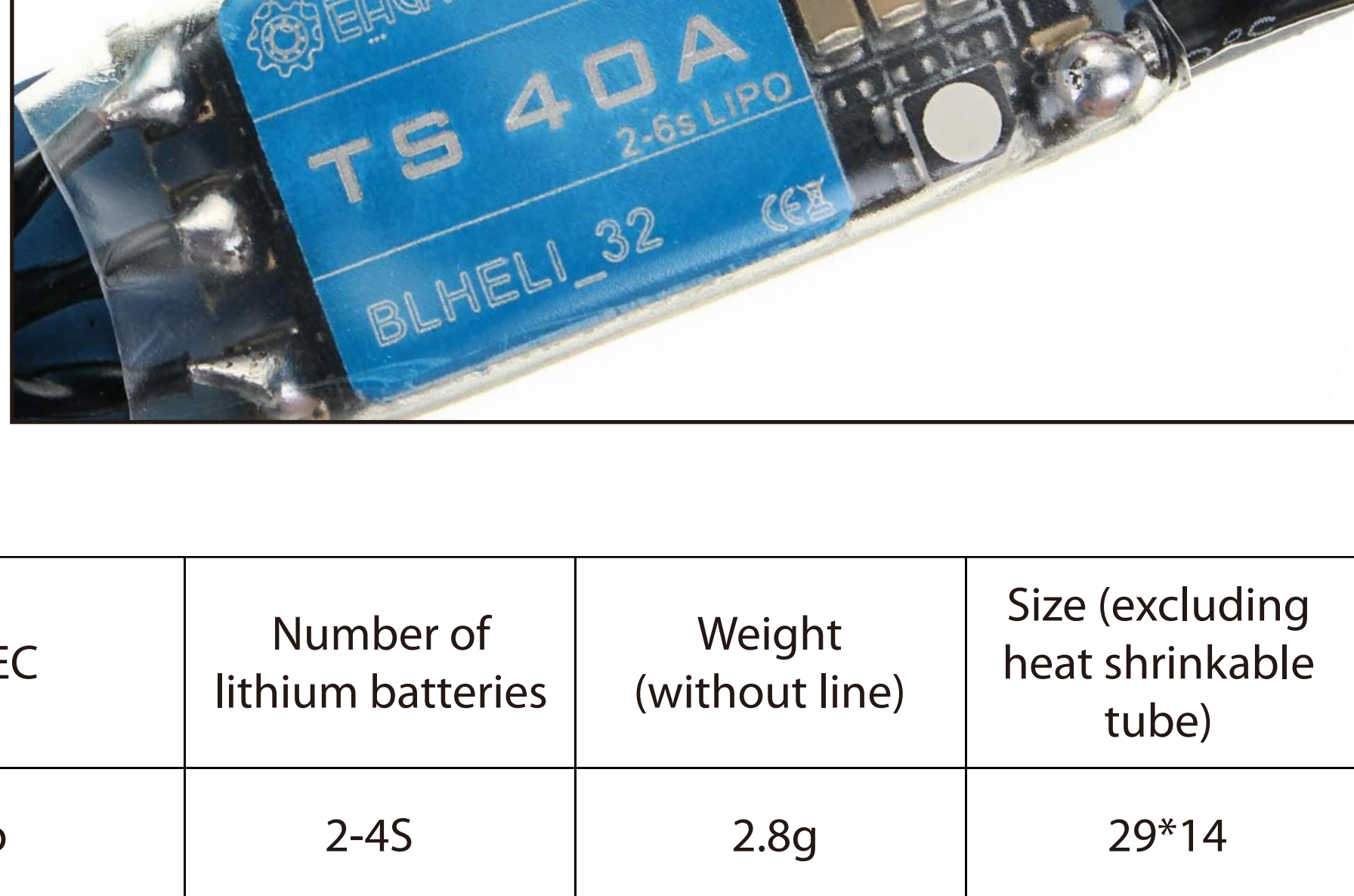
- Adopt 6 layers, 3 ounces copper thick high quality PCB, large current and small control signal layering layout, enhance anti-interference ability. More PCB surface gold-plated process, effectively improve the electric current, heat dissipation capacity.

- Integrated RGB multicolored bright LED night lights, night flight is more cool.

- The original third generation BLHeli_32 firmware supports new DShot150/300/600/1200 digital throttle, strong anti-interference capability and quick response.

- By default, the hardware PWM, Damped Light hardware and PWM drive motor will be opened, with less noise and smoother throttle response.

- Damped Light mode, regenerative braking function, so that the motor decelerate more sensitive and effective, control more accurate; active continuous flow technology, let the battery recycle electricity, prolong the endurance time.

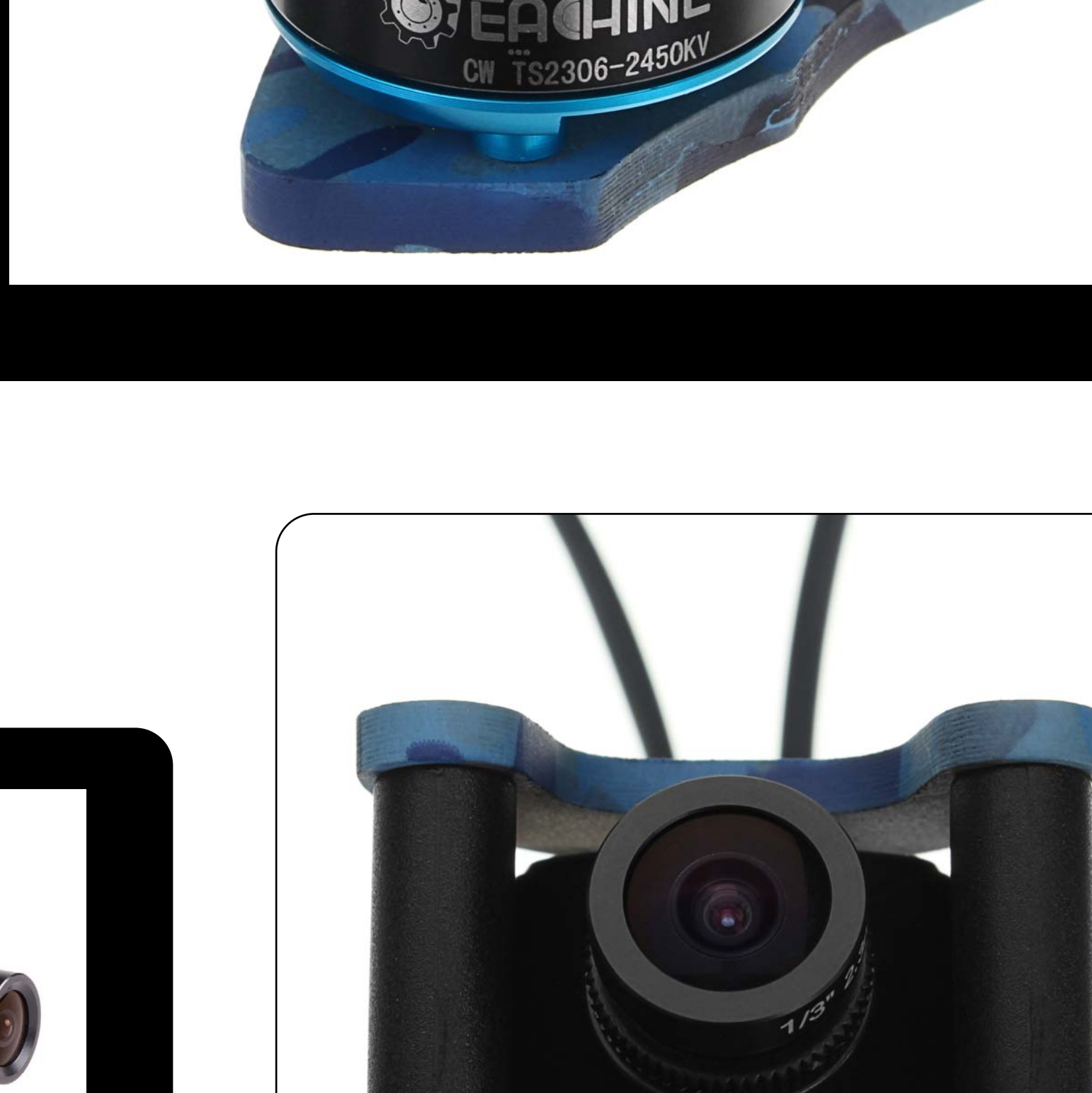


recycle electricity, prolong the endurance time.

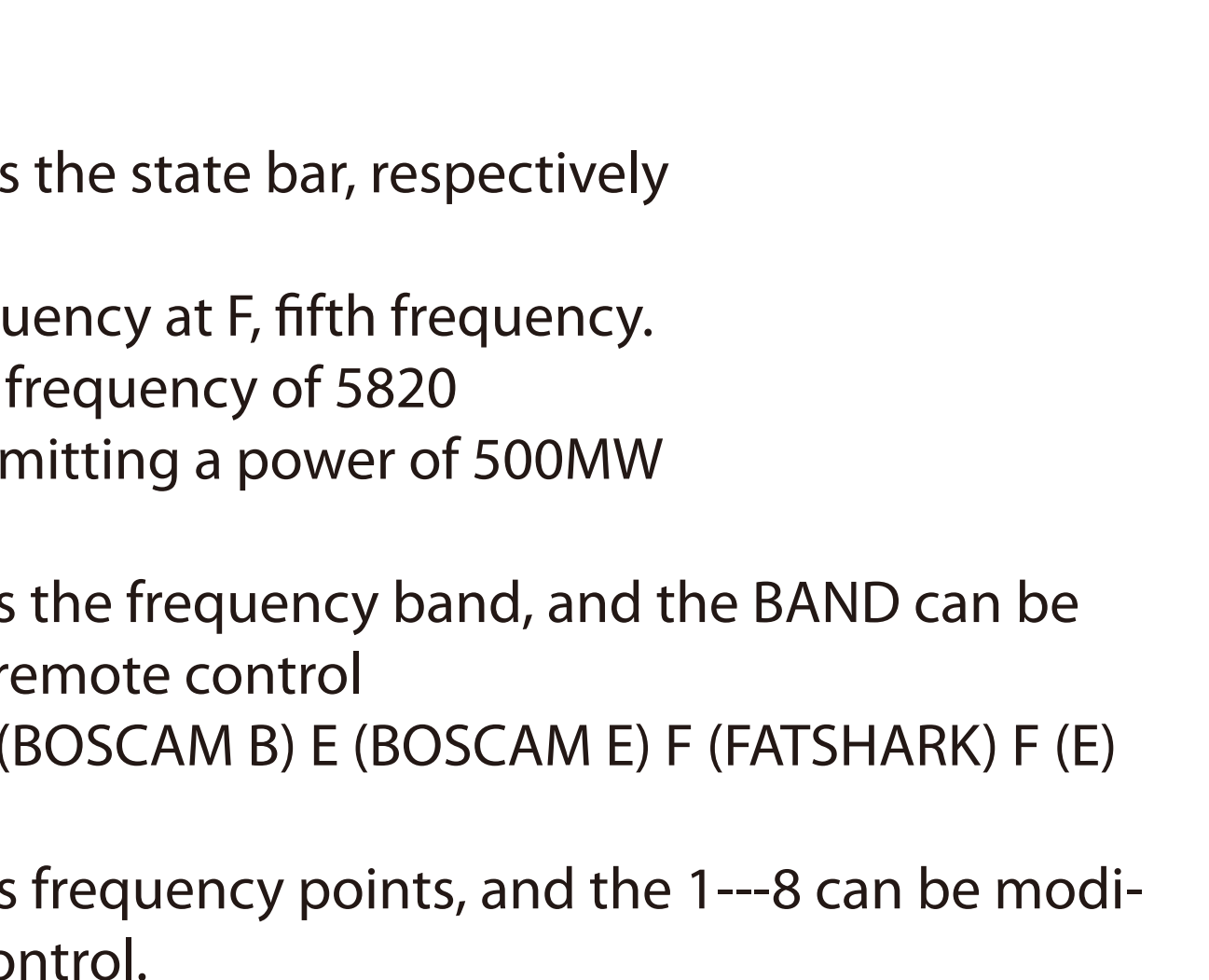
Model	Continuous current	Instantaneous current	BEC	Number of lithium batteries	Weight (without line)	Size (excluding heat shrinkable tube)
	40A	50A	No	2-4S	2.8g	29*14

Motor

Model	2306
Kv value	2450
Axis diameter	4mm
Line number	18#
Support lithium electric	3-5s
Slot level	12n14p
Weight	32.9g



FPV Camera



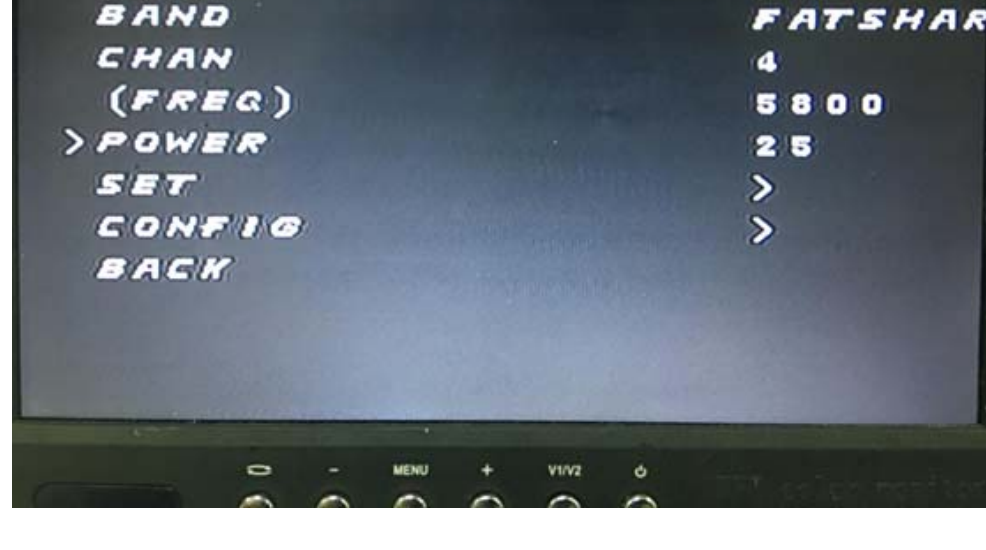
FPV Transmitter

- the whole part is divided into flight control board and launching board.
- there are two ways to control the frequency and power of the launches.

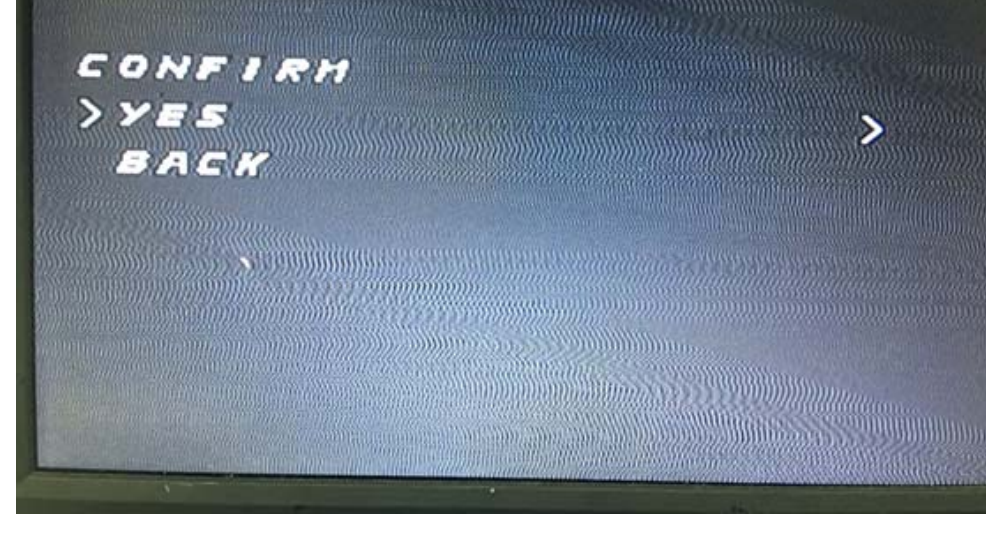
Enter the release: FEATURES->VTX SA can enter the following interface.

<1> uses remote control to visualize control, as shown in Figure 1.1

The second line is the state bar, respectively
F:freestyle mode
F5: is now in frequency at F, fifth frequency.
5820: is now at a frequency of 5820
500: is now transmitting a power of 500mW
Third lines
BAND: represents the frequency band, and the BAND can be modified by the remote control
A (BOSCAM A) B (BOSCAM B) E (BOSCAM E) F (FATSHARK) F (E)
Fourth lines
CHAN: represents frequency points, and the 1---8 can be modified by remote control.
Fifth lines
(FREQ): indicate the corresponding frequency now, changing with the band and Chan above.
Sixth lines
POWER: represents the transmission power, adjustable
Seventh lines
SET: enters the YES to confirm the BADN, CHAN, POWER you set, and takes effect immediately. As shown in Figure 1.2 below.



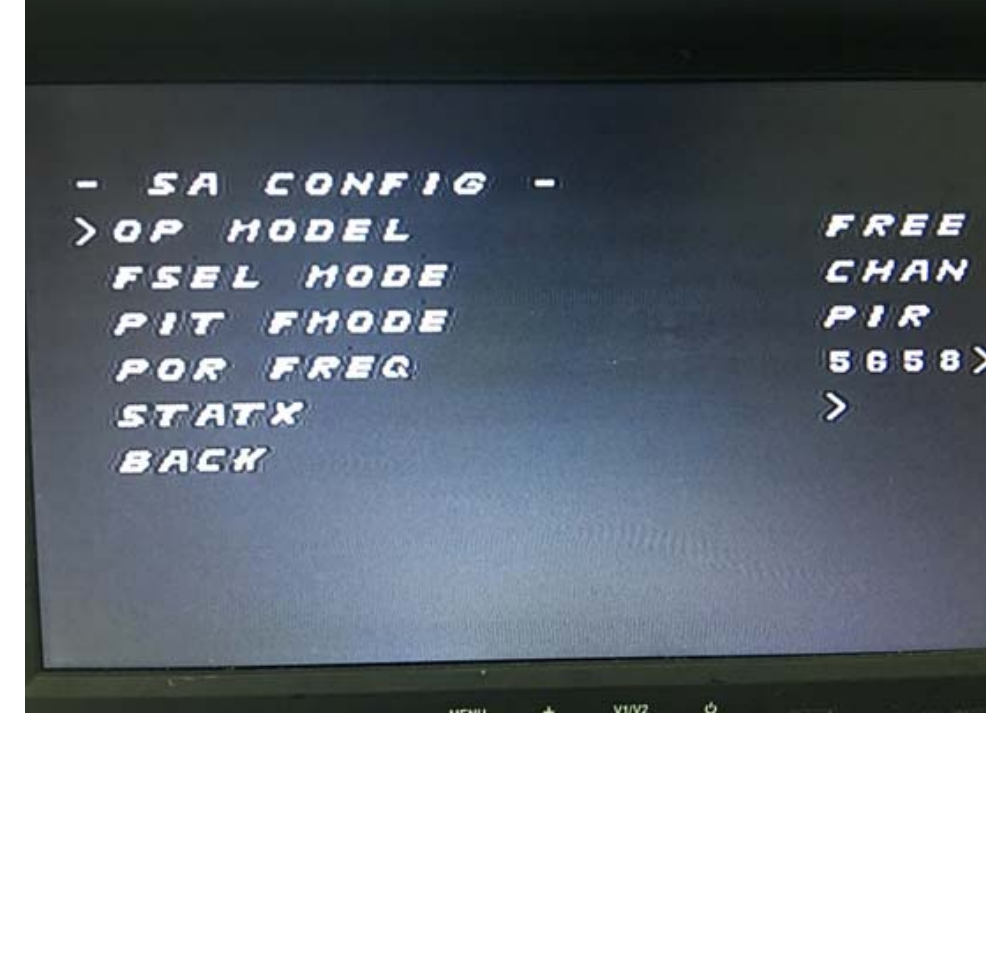
<< Figure 1.1



<< Figure 1.2

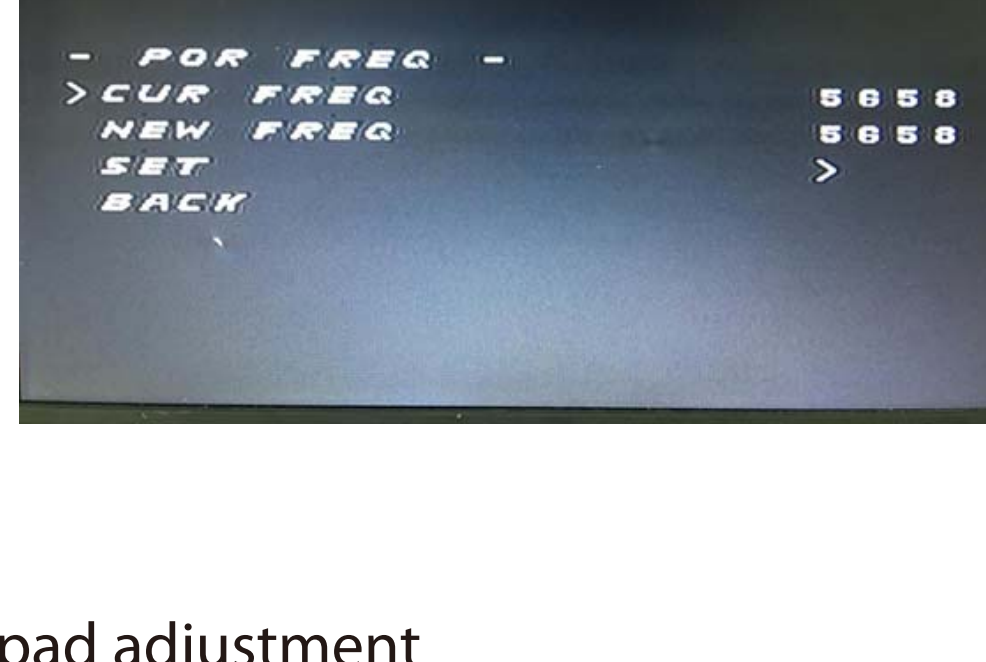
Eighth lines:

The CONFIG: function is set into the inside as shown in Figure 1.3



<< Figure 1.3

OP MODEL: mode adjustment, with free mode and race mode, needs reboot to take effect.
FSEL MODE: regulates frequency setting mode, CHAN and user, user mode is temporarily invalid.
PIT FMODE:PITMODE mode, PIR and POR mode.
In the POR mode, POR FREQ: can enter into any frequency between 5300-5900, as shown in Figure 1.4.



<< Figure 1.4

STATX: state information

Introduction to 3.Race and Freestyle

Race:

This mode can minimize the launching power of the launch board, avoiding the impact of the excessive power on other flying vehicles. The power break restart will go into the PITMODE, when in this PITMODE mode, the display F in Figure 1.1 will display R, showing that the 500 power will display PIR or POR, which is restarted according to your shutdown. The PIT FMODE in Figure 1.3 of the previous figure is determined.

In the PIR mode, the frequency of the transmission corresponds to the BAND CHAN of Fig. 1.1, and the frequency at POR corresponds to the frequency set in Fig. 1.4.

Note: in the POR mode, if the frequency set can not be received by the display device, you can exit the POR mode by pressing the button 8s in the launch pad. Return to FREE mode.

To quit the PITMODE mode, you can change the Race to Free. and restart.

When in pitmode, when the power is adjusted, Band and CHAN will not take effect immediately, it is necessary to enter the SET confirmation in Figure 1.1.

When adjusting power in Free, it can take effect immediately. However, BAND CHAN still needs SET confirmation.

If you do not quit pitmode, you will still enter PITMODE at the next boot time, regardless of the power adjusted before restart.

Freestyle

You can exit the Race mode. You can modify the power at any time.

keypad adjustment

1. launches board has a button to adjust, a digital tube display. Short press can adjust Channel; long press 2S, then short press can adjust band; long press 4S again short button can adjust power. Each short button, the corresponding information increases, after reaching the maximum value, return to the minimum value.

2. the digital tube displays band, channel, power in turn in the normal state, and the number displayed in power will flash two rapidly.

The corresponding frequency table is shown in Figure 2.1 below, and the power is as POWER.

3. when the launch board enters the PITMode mode, the power display P;

4. each time a long key 2S or 4S will enter a new mode of adjustment. If you enter the regulation band mode, the phenomenon is that the alphabet of the band corresponding to the display will quickly flicker for two seconds, and then wait for the 5S time.

In this period, if the short button is short, it will adjust the band, and refresh the time to wait for the time 5S, and the other patterns are similar.

5. digital display information is consistent with the status bar display in the above display.

Channel	1	2	3	4	5	6	7	8	
A	5865	5845	5825	5805	5785	5765	5745	5725	MHz
b	5735	5752	5771	5790	5809	5828	5847	5866	MHz
E	5705	5685	5665	5645	5885	5905	5925	5945	MHz
F	5740	5760	5780	5800	5820	5840	5860	5880	MHz
r	5658	5695	5732	5769	5806	5843	5880	5917	MHz

Figure 2.1

POWER: 25(1) 200(2) 500(3) 800(4)

DVR

DVR usage tutorial

1, as shown above, connect the camera and flight control by wire definition. Input power 5V.

2, insert SD card (maximum support 32 GU.

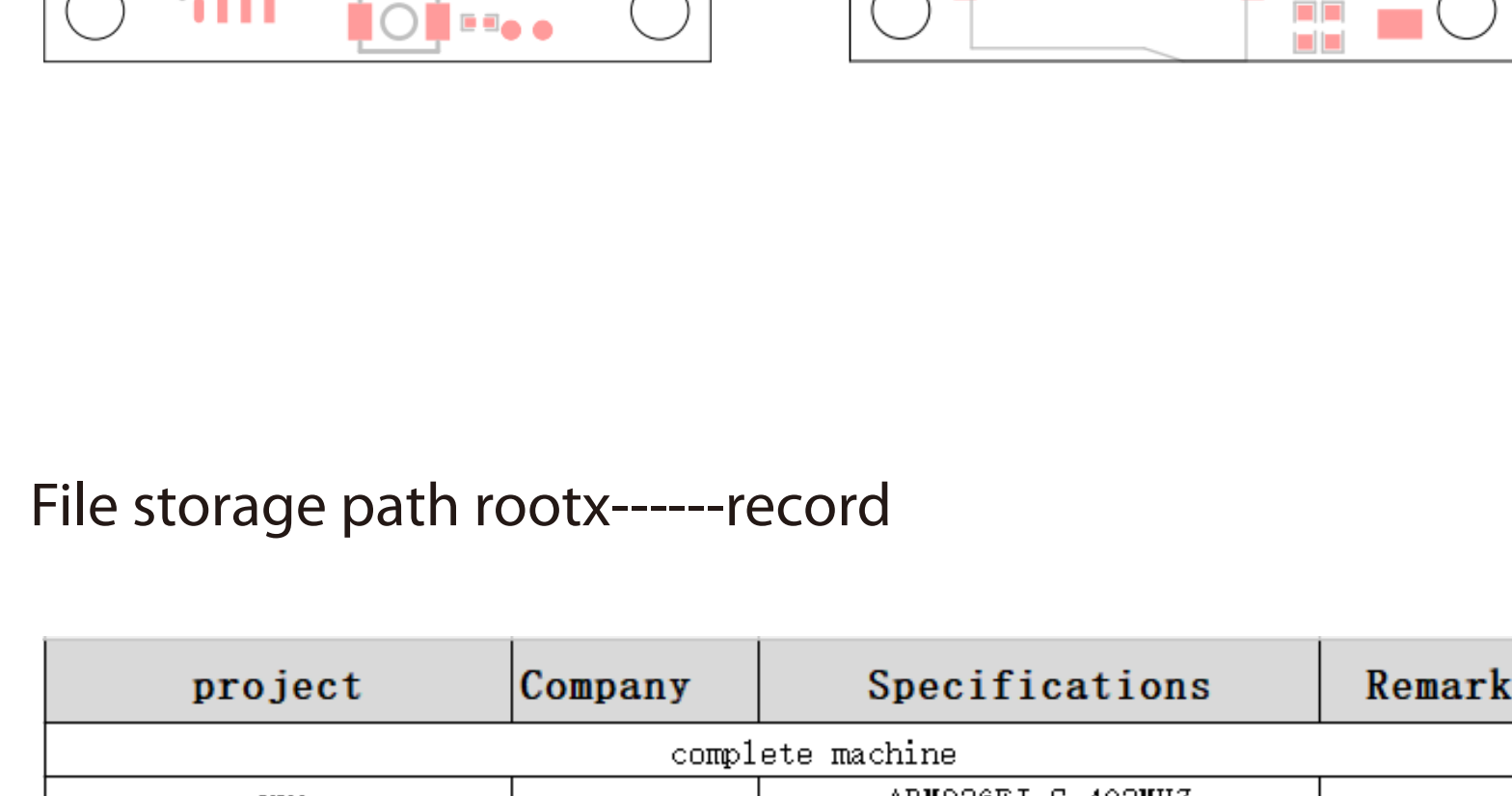
3. Turn on the power and put the switch on.

4, the red indicator lights on, indicating that the power has been turned on.

5. When the red light is on, wait about 10 seconds or so, and the blue light starts flashing, indicating that the video has been stored.

6, after flight, turn off the power switch (or power off) system will automatically save the video, the blue light does not flicker to indicate that the storage has been completed.

File storage path rootx-----record



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File storage path rootx-----record

project	Company	Specifications	Remarks
cpu		complete machine	
flash		AT912001-8-40MBZ	
Video resolution		1080	
Coding format		NTSC:1200480 FLA:720*576	
file format		.AVI	
Video frame per segment	MINUTES	15	
Memory capacity	mb	MAX:320 class10	
Storage size	mb	38436	
weight	GB		
Power adaptation range	V	4.5-5.5v	
Maximum working current	ma	max:300	

Package



Antenna

Features:

High standards for manufacturing and testing
Good class range and signal quality

Ultra compact, light weight

Ultrasonic welding and foam injection cover for collision protection
Double sheath semi rigid cable with heavy impact resistance

Technical specifications:

Frequency range: dextral 5500-6000mhz

Gain: 1.26dbic

Axial ratio: 0.74

Weight: 11.3g

Height: 50mm, 3.3

Connector: SMA inner hole

