

Makerfire Armor 65 Lite

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Specification

Wheelbase: 65mm

Flight controller: Tiny Lite Silverware FC

Remote: Tiny lite RC

Motor : 7×16mm 17600KV (65000rpm@3.7V)

Propeller: 4-Blade 31mm

VTX : 5.8G/40CH/25mW

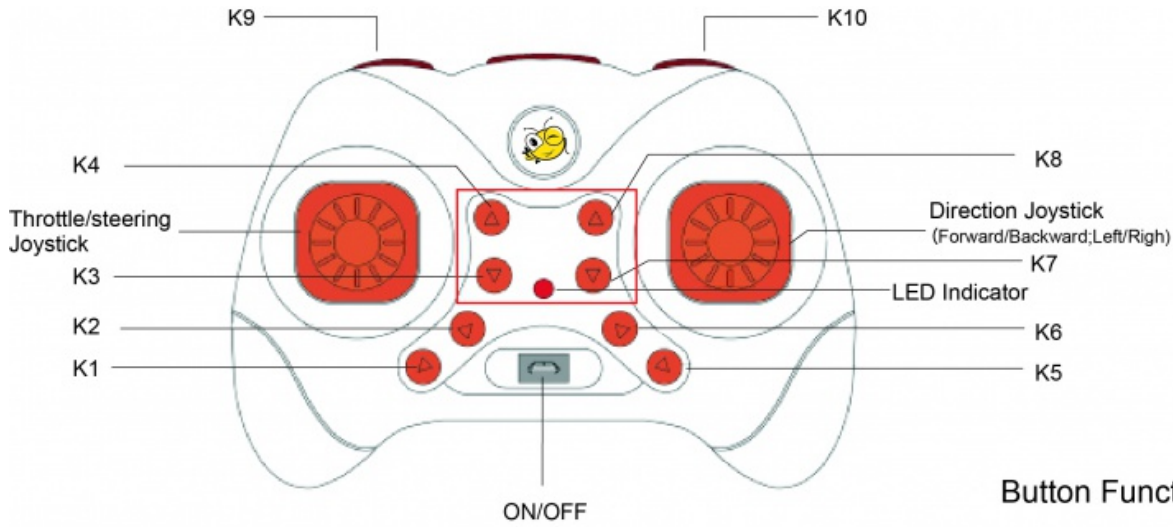
Camera : 800TVL/120°

Battery: 300mAh /3.8V/1S/30C/Li-HV

Flight time: 4min20second

Remote Distance: 100 meters

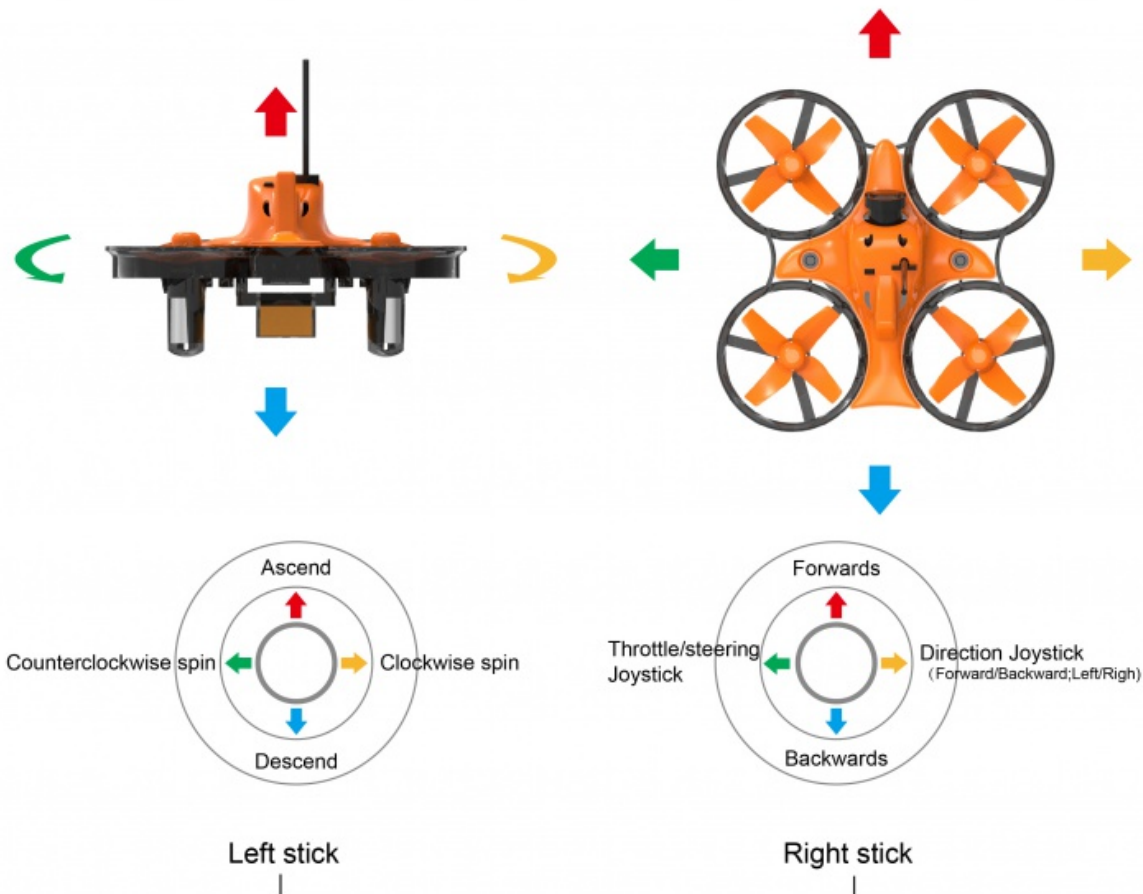
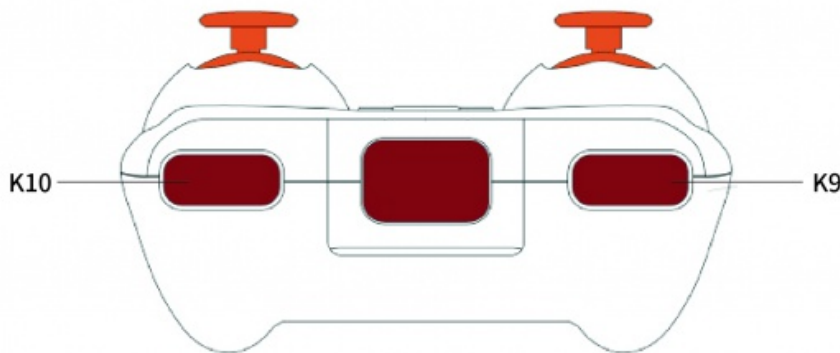
Control Instructions(Mode2)



Button Function :

- K1: YAW fine-tuning -
- K2: YAW fine-tuning +
- K5: Roll fine-tuning -
- K6: Roll fine-tuning +
- K7: Pitch fine-tuning +
- K8: Pitch fine-tuning -
- K9: Ch5
- K10: Ch6

Note: Under Silverware, the Ch5 is unlock channel, Ch6 is switch for Angle/Acro

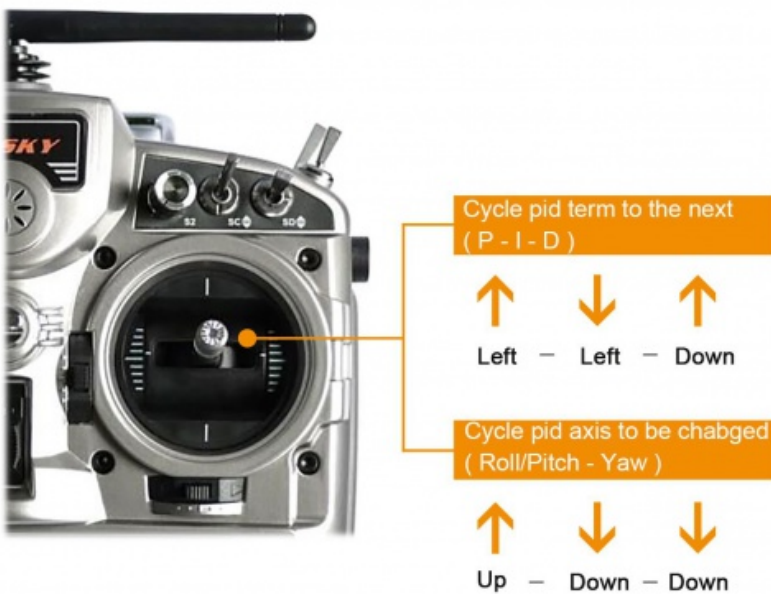


RC Gestures Setting (Mode2)

- Left - Left - Down: acro mode
- Right - Right - Down : level mode



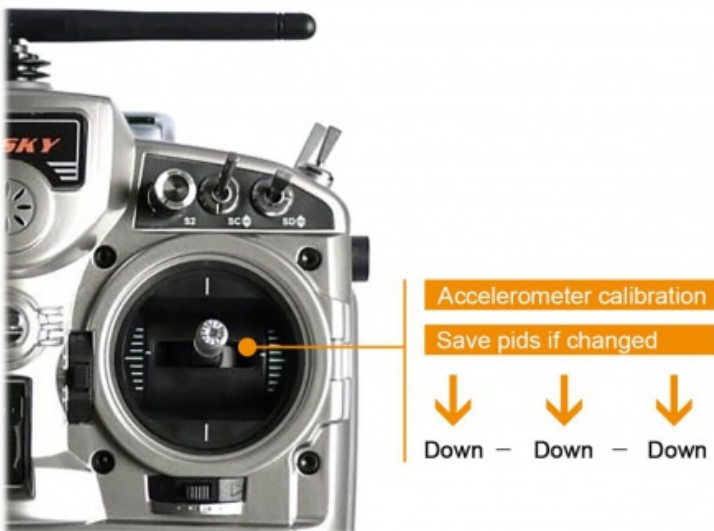
- Up - Down - Up: Cycle pid term to the next (P - I - D)
- Up - Down - Down: Cycle pid axis to be changed (Roll/Pitch - Yaw)



- Up - Down - Left: Decrease the selected value
- Up - Down - Right: Increase the selected value



- Down - Down - Down: Accelerometer calibration / Save pids if changed



VTX Introduction:

The 25mW/40CH AIO camera in Armor65 lite is characterized by wide dynamic, high-definition, wide angle and no delay. The light and mini AIO camera supports button and frequency choice as well as NTSC/PAL TV system. The LED will show video transmitter frequency, 8 LEDs indicates the signal channel, 6 LEDs indicates the frequency, the specific frequency will base on the video transmitter frequency chart.

Long Press can switch over the NTSC/PAL TV system.
 Short Press can switch over the vertical inverted image.
 Long Press can switch the frequency of the Video transmitter.
 Short Press can switch over the specific signal channel of current frequency.

Finish frequency operation to configure automatically frequency point and groups. It also is equipped with non-volatile memory function.

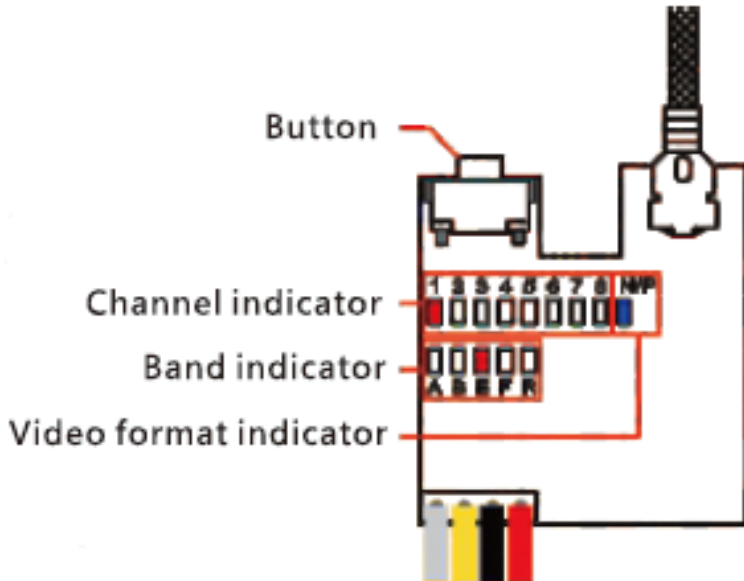


Image transmission frequency Table

	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865MHz	5845MHz	5825MHz	5805MHz	5785MHz	5765MHz	5745MHz	5725MHz
B	5733MHz	5752MHz	5771MHz	5790MHz	5809MHz	5828MHz	5847MHz	5866MHz
E	5705MHz	5685MHz	5665MHz	5645MHz	5885MHz	5905MHz	5925MHz	5945MHz
F	5740MHz	5760MHz	5780MHz	5800MHz	5820MHz	5840MHz	5860MHz	5880MHz
R	5658MHz	5695MHz	5732MHz	5769MHz	5806MHz	5843MHz	5880MHz	5917MHz

Armor65 Lite radio transmitter

The toys like JJRC H67, Eachine E011 etc use the Bayang protocol radio transmitters.

Jumper T8SG radio transmitter

MTX-9D multiprotocol module (Suitable for Frsky Tanaris QX7 X9D X9D Plus X12S, Flysky TH9X, Turnigy 9XR/9XR PRO)

Other 4in1 multiprotocol module that support the Bayang protocol.

If not sure whether your radio transmitter could support this FC board, please email us (Support@makerfire.com) for help.

For example, if you have a Frsky Tanaris QX7 / X9D radio transmitter and want to try this FC board, just plug in a MTX90 multiprotocol module.

Remote control configuration

1) Bayang protocol remote control configuration

Step1

Power up the Armor65 Lite, the FC indicator LED flashes slowly for 6 times and then turns into fast flash mode. The fast flash mode shows the beginning of the binding mode.

Step2

There is the "di" sound in the buzzer when turn on the radio transmitter and then turn into the binding mode automatically. After finishing the binding, the FC indicator LED fashes solid, and the radio transmitter has the "di" sound.

After finishing the binding, turn off the radio transmitter, the FC indicator LED turns into slowly flash mode.

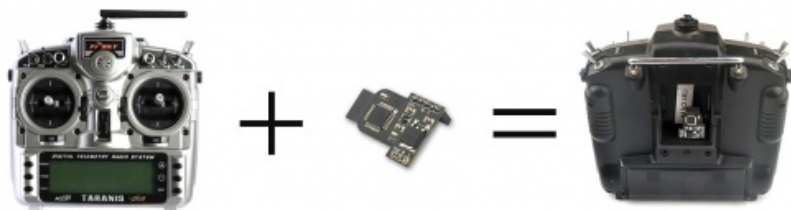
Notes:

Turn on the radio transmitter before power up the Armor65 Lite, then the binding fails.
When Changing the new battery needs binding again.

2) Take Frsky X9D as an example

Step1

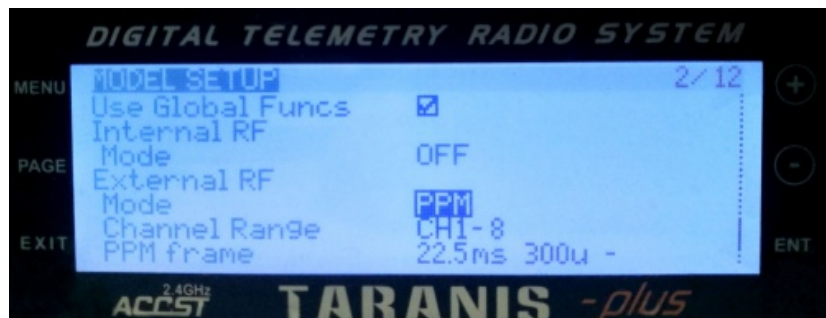
Install the MTX9D module in Frsky X9D radio transmitter in the correct place.



Step2

Turn on the radio transmitter, and create a radio transmitter mode.

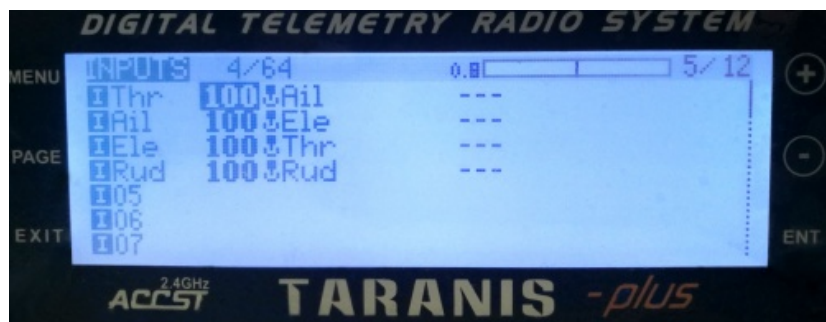
In MODEL SETUP setting page, Set "Internal RF" to "OFF" and "External RF" to "PPM".



Step3

INPUTS Setting

Thr--->Ail
Ail---->Ele
Ele--->Thr
Rud--->Rud



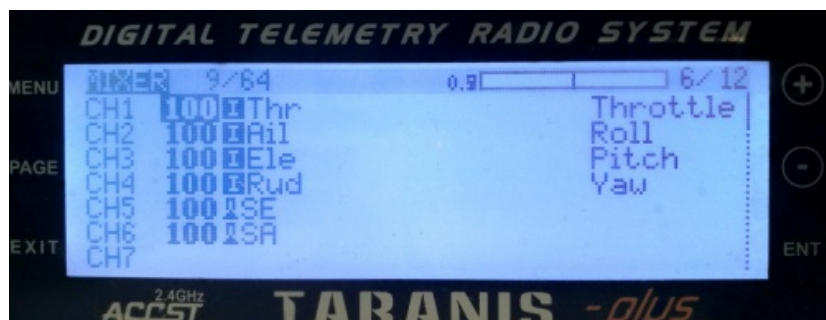
MAXER Setting

CH1-->Thr

CH2-->Ail

CH3-->Ele

CH4-->Rud



Step4

Turn off the radio transmitter.

Power up the Armor65 lite RTF and wait for the binding mode.

When the The indicator LED flashes fast,turn on the radio transmitter and push the right-Throttle to top-right direction.

The indicator LED turning the fast flash into solid shows binding is successfully.

3) T8SG remote control

Power up the Armor65 Lite, the FC indicator LED flashes slowly for 6 times and then turn into fast flash mode. The fast flash mode shows the beginning of the binding mode.

Turn on the radio transmitter, short press "ENT" and go into "Main menu", press " ENT", go into "Model menu",choose "Model Setup"page.

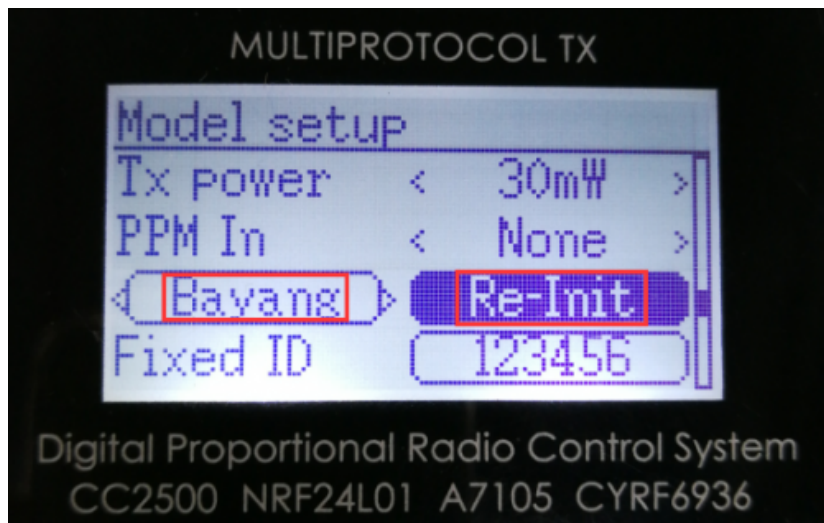
By default,the photo show below for your reference.

Adjust the cursor into "PPM In",set the receiver to "Bayang" and choose " Re-Init".

Press "ENT" and enter the binding mode.The indicator LED turning the fast flash into solid shows binding is successfully.

The T8SG enters the binding mode automatically if setting has been finished in advance.

There is the "did" sound at the starting and finishing binding mode.



4)Other radio transmitter

CH1: AIL (ROLL)
 CH2: ELE (PITCH)
 CH3: THR (THROTTLE)
 CH4: RUD (YAW)
 CH5: ARM/DISARM (1000:DISARM,2000:ARM)
 CH6: ANGLE/ACRO (1000:ANGLE,2000:ACRO)

Charging instructions

Notes:

- 1 . Charge the battery in time when low voltage.
- 2 . Turn the USB charger into 4.35v before charging.
- 3 . The solid red light shows the battery is in charging,light off shows in full charge.

PACKAGE

Armor65 Lite RTF (Silverware Firmware)

Package included:

- 1× Armor65 Lite RTF
- 1× Radio Transmitter
- 1× 300mAh 1S 3.8V Battery
- 1× One-way 4.35V Charger
- 1× Propeller Tool
- 4× Propellers
- 2× Screws
- 1× Service Card

How to Flash Firmware for Lite FC

The only method to restore the factory PID is reflashing the firmware for the moment.

About how to flash the firmware, please check on Silverware official website or RCG.

<https://www.rcgroups.com/forums/showthread.php?2876797-Boldclash-bwhoop-B-03-opensource-firmware>

The firmware for Makerfire TinyLite FC board is available in the attached file.

If You want to compile the files by yourself, please download the files here:

https://github.com/NotFastEnuf/NFE_Silverware

<https://github.com/silver13/BoldClash-BWHOOP-B-03>

NotFastEnuf/NFE_Silverware

Silverware is an open-source flight controller firmware developed by GitHub user silver13 for the H8 mini, BWhoop B03, and Eachine E011/E011C FCs. It was forked and further refined by GitHub user NotFastEnuf

Silverware is a firmware for some micro quadcopters, especially the whoop FPV racing.

Silverware supports level mode and acro mode. Also it can change the the settings for custom builds, or to adapt to personal preferences. By default, Silverware changes modes, tune PIDs, calibrate accelerometer or save settings by stick sequences(also called gestures).

For example, the Frsky QX7 radio transmitter switches the FC's mode between level and acro by moving the right stick as show below.

Any questions,please contact us.

Email: support@makerfire.com

Find us on social media: facebook (<https://www.facebook.com/pages/Makerfire/897527320310788>)

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