Wizard Ts130
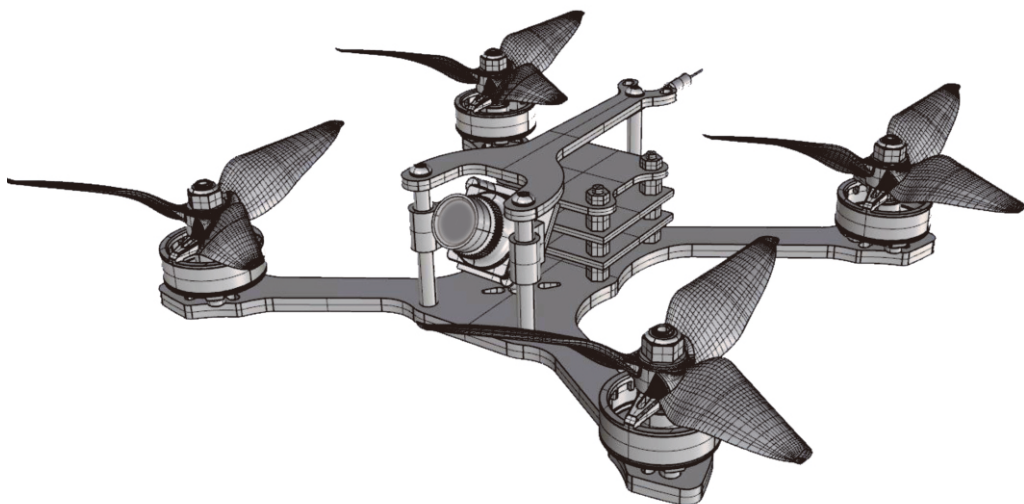
QUICK START GUIDE

Package included:

1 x Eachine Wizard TS130 frame kit
1 x TS 20A 4in1 Brushless ESC
4 x TS1507 4100KV brushless motor
1 x F4 flight controller
1 x FOXEER Arrow MICRO PRO camera
1 x 5.8G 40CH 25mw 100mw 200mw switchable VTX
2 x T3056C 3-blade propeller transparent white CW
2 x T3056C 3-blade propeller transparent white CCW
2 x T3056C 3-blade propeller blue CW
2 x T3056C 3-blade propeller blue CCW
1 x Antenna
1 x Battery strap
2 x Carbon fiber wrench
10 x Nylon cable tie
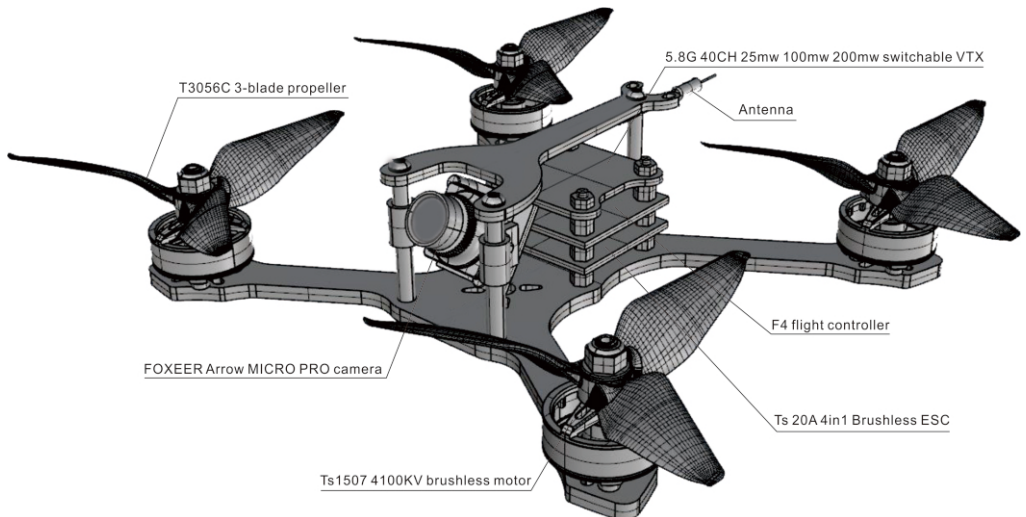
Contents
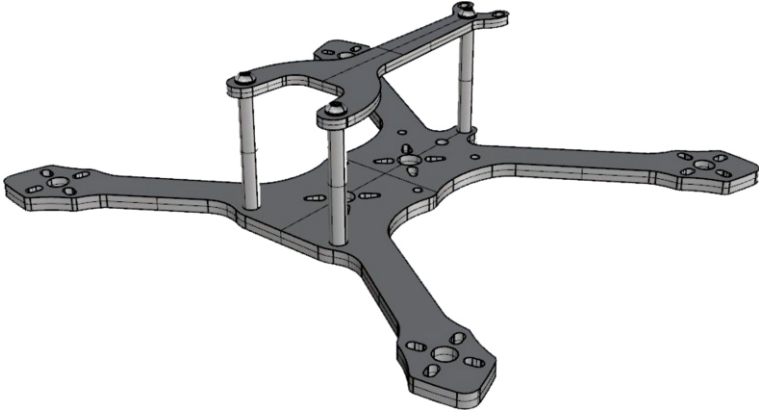
EACHINE

1.0 Frame kit

Wheelbase: 130mm
Material: 3K carbon fiber
Top plate thickness: 2mm
Bottom plate thickness: 3mm
Artist: hydrographics transfer printing

2.0 Motor

Idle Current (Io/10V): 1.68A
Lipo Cell: 3-4S
Weight: 17.6g
Max Continuous Current: 26A
Max Continuous Power: 416W
Max thrust: 626g(4S/3")
Configu-ration: 9N/12P
Motor Resistance (RM): 0.0495 Ω
Stator Diameter: 15mm

Stator Thickness: 7mm
Motor Diameter: 21.6mm
Motor Body Length: 15.5mm
Overall Shaft Length: 29mm
Prop adapter shaft: M5
Bolt holes spacing: 12mm
Bolt thread: M2
Propeller: 3"
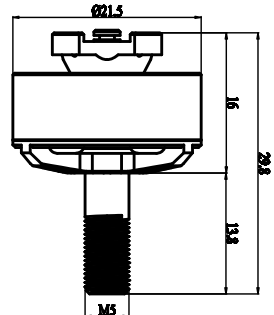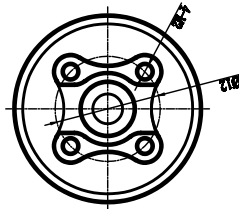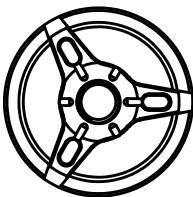
3.0 ESC

Continuous current: 20A
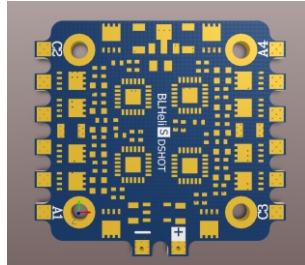Peak current (5S): 25A
Input voltage: 2-4S
Supports Dshot600, Dshot300, Dshot150
Size: 27x27mm
Weigjt: 3.3g
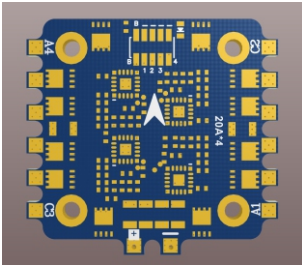
4.0 Flight controller

CPU: f4STM32 F405 SCM
Input voltage: 3-4S
Sensor: MPU6000 SPI
Built in OSD
Built in 5V 2A BEC
Size: 25x25mm
Weight: 2.3g

5.0 Switchable VTX

Input voltage: 7-24V
Dimensions: 20x20mm
Size: 27mm×27mm×4.5mm
Adjustable 25mw / 100mw / 200mw
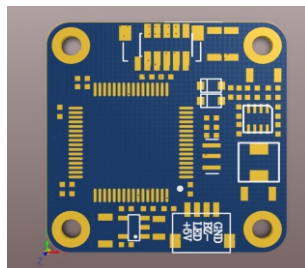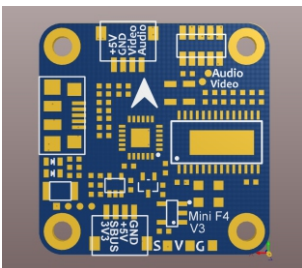Supports smart audio (remote OSD parameter adjustment)
There are two ways to control the frequency and power of the launches:
Enter the release: FEATURES->VTX SA can enter the following interface.
<1> uses remote control to visualize control, as shown in Figure 1.1
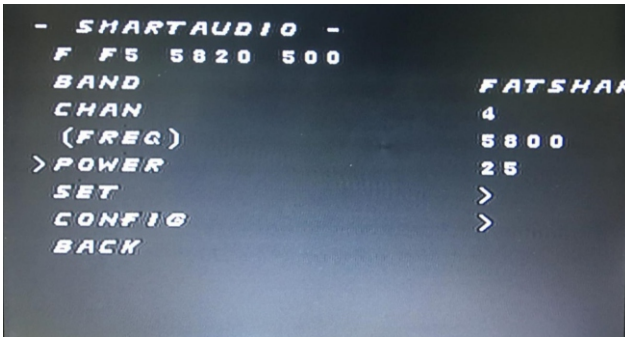
Figure 1.1

The second row is the status bar, respectively.
F:freestyle modeF5: is now in frequency band F, fifth frequency point.
5820: now has a frequency of 5820.
500: now has a transmit power of 500MW
Third lines
BAND: indicates frequency band, and BAND can be modified by 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: indicates the transmission power and can be adjusted.

5.0 Switchable VTX

Seventh lines
SET: Enter and select YES to confirm your BADN, CHAN, POWER settings and take effect immediately., as shown in Figure 1.2 below

Figure 1.2

Eighth lines
The CONFIG: function is set in, as shown in Figure 1.3 below.
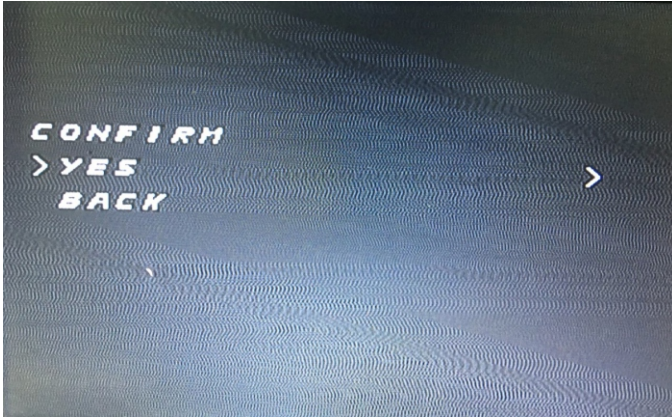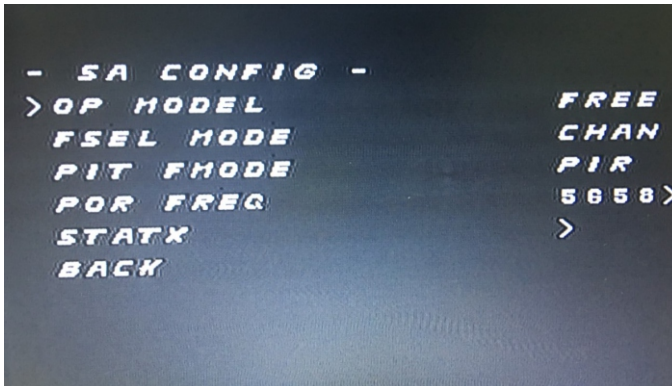

Figure 1.3

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, with PIR and POR mode.

5.0 Switchable VTX

In the POR mode, POR FREQ: can enter into any frequency between 5300-5900, as shown in Figure 1.4.
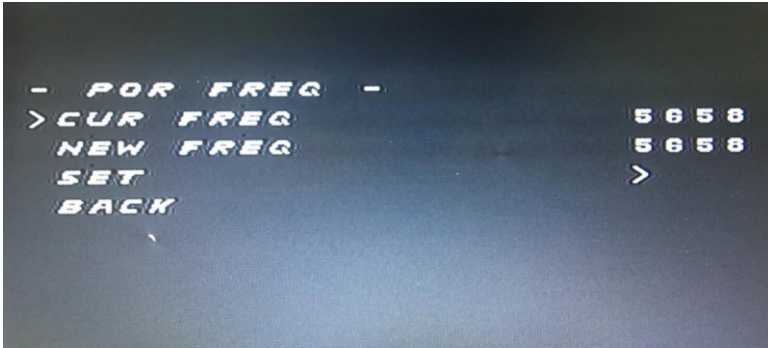

Figure 1.4

STATX: status information

<2>XMM-VTX is operated by a button with three LED lights (red light CH1-8; blue light BAND1-5; green light power 1-3 <25-100-200 mW>)and TBS Smart Audio remote control operation. Keyboard operation: Long press 3S (three LED indicators are all on) to open and enter CH switching operation, and the red light will flash, flashing once represents the currentCH1 (2-8 times for CH2-CH8 respectively). At this time, a short press of the key CH plus 1 will flash the corresponding number of times. CH1-8 cycle. Press the button 3S (three LED lights are all on) to open and enter the BANDswitching operation, and the blue light will flash. The flash once represents the current BAND1 (2-5 times for BAND2-BAND5 respectively). At this time, press the button BAND plus 1, and the blue light will flash correspondingly. BAND1-5 cycle. Press the button 3S (three LED lights are all on) again to open the power switching operation, and the green light will flash, one time represents the current power of the first grade (2-3 times for the green light flashing respectively), at this time, press the button power to add one gear, and the green light will flash the corresponding number of times. Power stall 1-3 cycle. Press the button 3S again (3 LED lights are all bright) to release the above settings again. Note that the previous settings will not be saved if the power is off before saving. For example, if CH is only set, it is also necessary to press 3S three times longer to save the settings.Long press button 8S (green light) quit PIT mode.

5.0 Switchable VTX

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

Note: In the remote control, the power of 25 corresponds to the actual 25 mW, 200 corresponds to the actual 100 mW, and 500/800 corresponds to the actual 200 mW.

6.0 Camera

Solution: 1/3" Sony SUPER HAD II CCD+Nextchip 2040 DSP
Pixel:PAL: 976(H) x 494(V);NTSC: 768(H)×494(V)
TV System: PAL/NTSC (based on country)
Resolution: 600TVL(color) 650TVL(B&W)
Synchronization: internal
Min. Illumination: 0.01Lux
WDR: support
OSD programming board: support
White Dot Repair: support
DNR: 2D DNR
Camera Title: support
Image Adjustment: support
OSD: Edit Name, Power, Flying time
Input Power: 5-40V
Storage Temperature: -40 C ~ 60 C
Working Temperature: -10 C ~ 50 C
Power Consumption: 70mA
Low voltage alarm: Support
Preset mode: DEF, VIVID, SUNNY, CLOUDY,LED TR,USR1
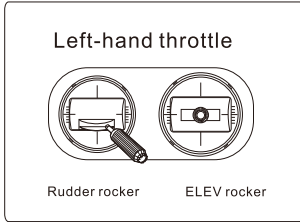Size: 18.5*19mm (bracket excluded)
Weight: 5.3g (bracket excluded)

7.0 Motor Unlock/lock

Motor Unlock

Put the throttle rocker at the lowest point, move the rudder rocker to the right and keep it for more than 2 seconds. The blue state indicator is always on, that is unlock the motor.

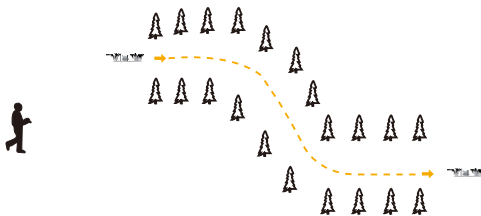Left-hand throttle

Rudder rocker   ELEV rocker

Motor lock

Put the throttle rocker at the lowest point, move the rudder rocker to the leftmost side, and the red state indicator is always turned on to lock the motor. At this time, pushing the throttle rocker motor upward will not rotate.

Left-hand throttle

Rudder rocker   ELEV rocker
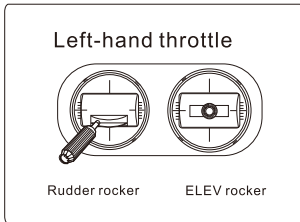
8.0 Traversing flight

1).Flying is more suitable for experienced pilots.
2).During the flight, please keep the flight within the video receiving range (the actual range depends on the flight environment and weather conditions).
3).During flight, please avoid crowd, animals and High voltage wires and other obstacles