X140HV

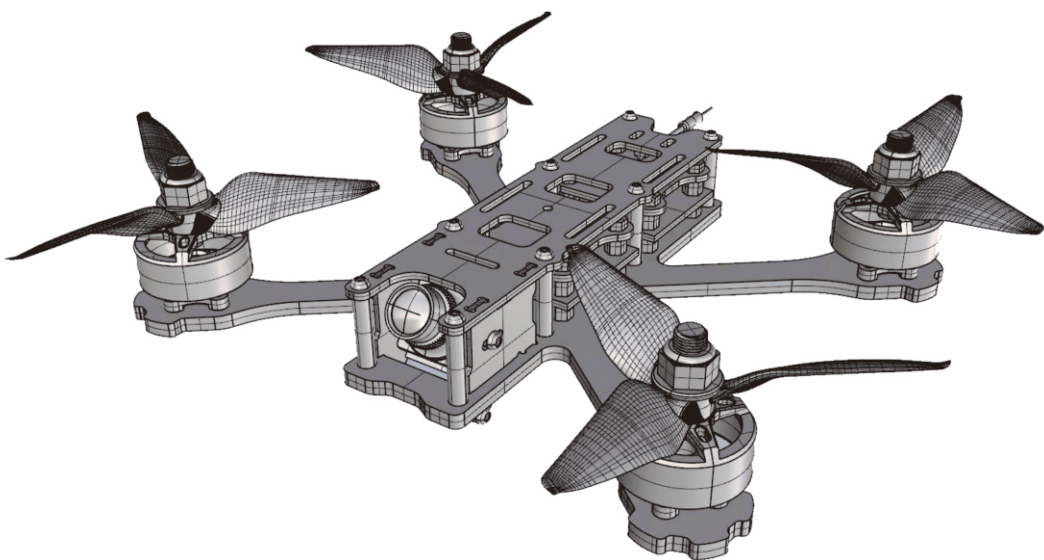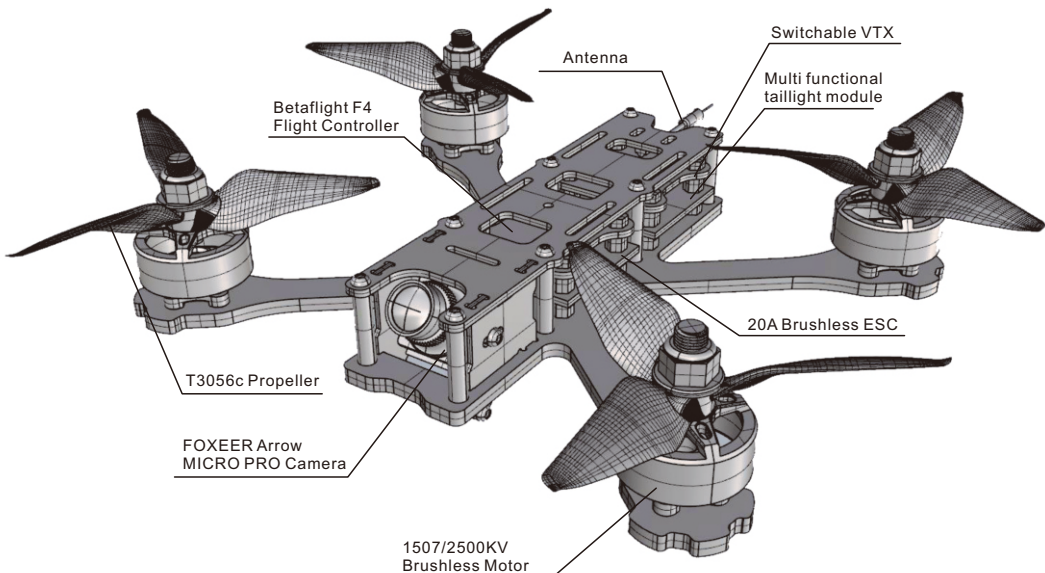## QUICK START GUIDE

EACHINE

Package included:

1 x X140HV Frame Kit
1 x Atmosphere light strip
4 x 1507/2500KV Brushless Motor
1 x 4 In 1 20A Brushless ESC
1 x Betaflight F4 Flight Controller
1 x FOXEER Arrow MICRO PRO Camera
1 x XF5805 /5.8G 40CH 25/100/200/300mw
Switchable VTX
1 x Multi functional taillight module
8 x T3056c Propeller (transparent purple * 2 Pairs /
 transparent * 2 Pairs)
2 x 150*15mm battery strap
1 x Battery board set (2mm battery protection plate*1 ,
EVA plate*2 , Anti-slip plate*1)
4 x M5 screws nut (black color*2 , sliver color*2)
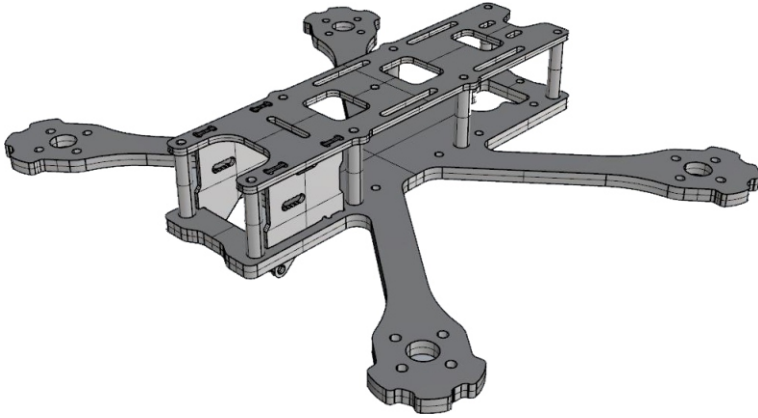1 x Screw set
10 x 2.5x100mm Nylon cable tie
2 x Wrench

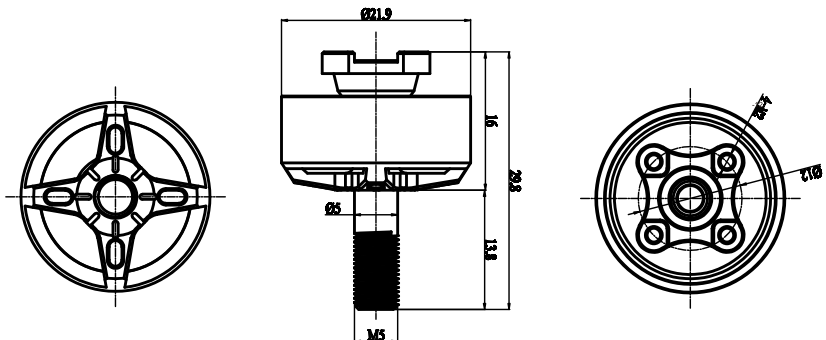# Contents

1.0 Frame kit

Wheelbase: 140mm
Floor thickness: 3mm
Upper plate thickness: 1.5mm
Side panel thickness: 1.0mm
CNC 6065 Custom Aluminum Column

2.0 Motor

KV: 2500kv
Voltage: 2-6s
Weight: 17.7g (including line)
Output shaft length: 14mm
Maximum pulling force: single 740g
(6S/3056 three-leaf paddle)
Maximum power: 480w

Number of slots: 9n12p
Mounting hole spacing: 12*12mm
Mounting hole specification: m2
Bearing: nsk
N52 NdFeB magnet
Recommended paddle: 3 inches

3.0 ESC

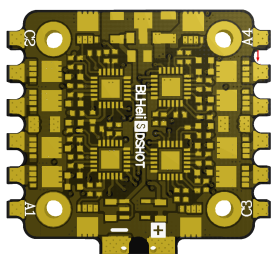Continuous current: 20A
Peak current: 25A (10s)
Bec output: NO
Input voltage: 2 ~ 6 s
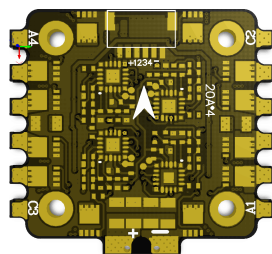Main control chip: 48mhz efm8bb2
Firmware upgrade: support dshot600 /blheli _ S/Oneshot125
MOS: 3*3
MOS model: pe632ba 30v53a

4.0 Flight controller

Main control chip: stm32f411
IMU: mpu6000 6-axis sensor
BEC: 5v/1a
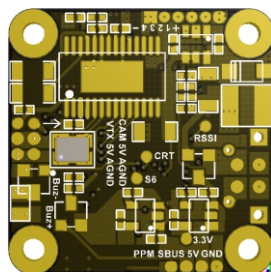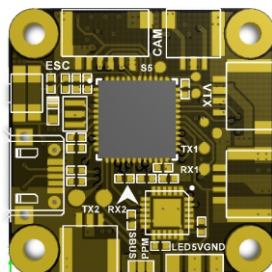Integrated OSD
PPM/DSM/IBUS/UAR sharing: UART1-RX
Installation size: 20*20
Weight: 3.0g
Support firmware: betaflight/cleanflight/inav
Support for programmable LED Sprit
Reserve buzzer interface

5.0 Switchable VTX

Support TBS SmartAudio
Transmitting power: 25/100/200/300mw adjustable in three steps
Frequency points: 40ch
Video format: full NTSC / PAL format
Input voltage: 7V ~ 26V
Power consumption: +12V/600MW, 260ma
Size: 25 × 20 × 4mm
Weight: ≤ 3.2g (except antenna)
With copper tube mini antenna (ipex interface)
Tips: Before powering up, you must first install the antenna to avoid the possibility of burning the tuner.

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

6.0 Camera

Image sensor: 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
Resolution: 600TVL (color) 650TVL (black and white)
Synchronization: internal
Minimum illumination: 0.01lux
WDR: Support
OSD programming board: support
White point repair: support
DNR: 2D DNR
Camera title: support
Image adjustment: support
OSD: Edit Name, Power, Flight Time
Input power: 5-40V
Storage temperature: -40 C~60 C
Working temperature: -10C~50C
Power consumption: 70ma
Low pressure alarm: support
Default mode: def, vivative, sunny, cloudy, led tr, usr1
Size: 18.5*19mm (without bracket)
Weight: 5.3g (without bracket)

7.0 Atmosphere light strip

Feature： Low power consumption, no heat, no impact on flight time.Only 10% of the power consumption of traditional LEDs. Beautiful, soft, not dazzling.Lines can be bended, folded and sheared at will. The installation is flexible and convenient for you to play freely,Long life.

8.0 Multi functional taillight module

Working voltage: 5v
Integrated programmable taillight / bb ring / light strip drive
RGB full color highlight WS2812b lamp beads *2
Integrated 80dBi buzzer
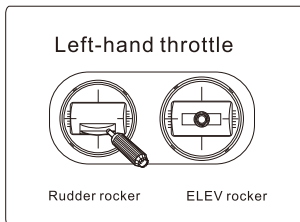Integrated photon emission line driver
Size: 20*20
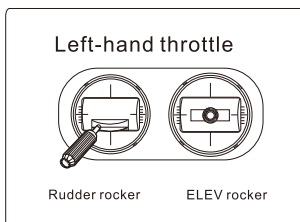Weight: 3.5g

9.0 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.

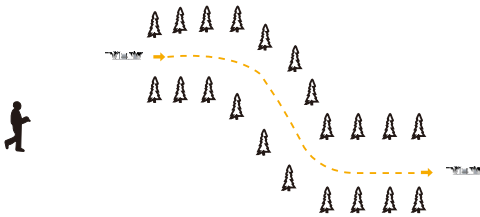Left-hand throttle

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

10. 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