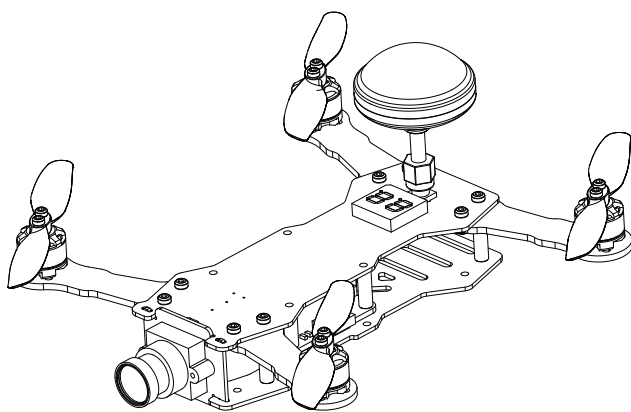


X160

User Manual

V1.0



Disclaimers and warnings

Thank you for purchasing X160.

Please read this instruction manual carefully before using this product. By using this product, you hereby agree to this disclaimer and signify that you have read it in full.

Please mount and use this product as per this manual strictly. As manufacturer has no control over use, setup, final assembly, modification (including use other parts such as motor, ESC, propeller etc), no ability shall be assumed nor accepted for any resulting damage or injury.

As it may cause wireless interference in the living environment, please take effective measures to avoid it.

Any parts of this manual is subjected to change without prior notice.

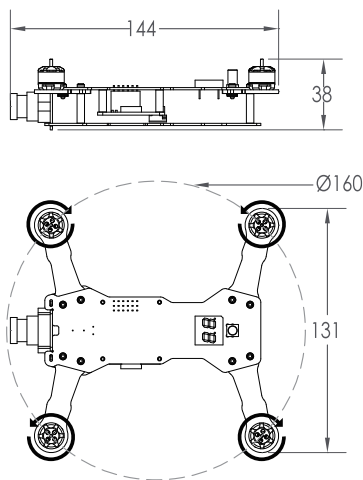
Any problems while mounting this frame, please contact with us or authorised agent.

Introduction

X160 is a micro racing frame for FPV Player. It is a highly integrated product with highly flexible controls. Combo with motor 1104-4000KV, propeller 3x2" as well as the popular 10A esc with BLHeli firmware (support ONESHOT). Flight range of remote control more than 1000 meters.

To gain the quality and real-time shoot for FPV, X160 also combines 5.8G 32CH 200mW transmitter with 1/3" CMOS lens, which supports 127 or wider 160° shootings and every moment brings you the exciting FPV experience.

The default firmware of FC is CleanFlight, It can be used after connected the battery, receiver and set the remote control. X160 supports to be flashed Openpilot firmware also, there will be show the different experience for you!

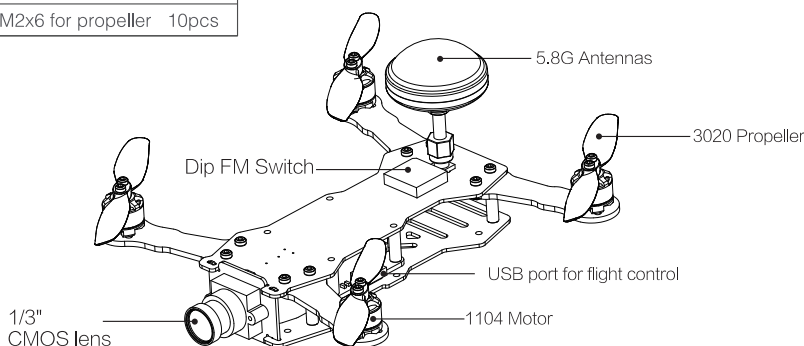


X160 Power Set	
Flight control	CC3D(Pre-tuned CF firmware)
Propeller	3x2"
ESC	10A (BLHeli FW)
Motor	1104/4000KV
Battery	11.1V/3S (RCMD)

Cognition X160

Box list

X160 frame	1pcs
Propeller 3020	2pairs
5.8G antennas	1pcs
Screw M2x6 for propeller	10pcs



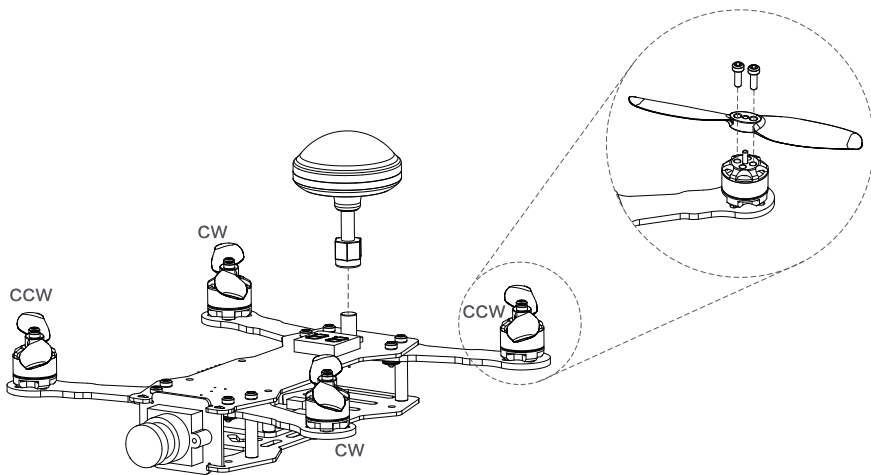
Switch frequency selection for dip switch

Dial switch 12345 to choose the required FR/CH for 32 channels.

FR																			
FR1 (A)					FR2 (B)					FR3 (C)					FR4 (D)				
1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CH																			
CH1					CH2					CH3					CH4				
1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CH5					CH6					CH7					CH8				
1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
CH		CH																	
FR	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8											
FR1	5865M	5845M	5825M	5805M	5785M	5765M	5745M	5725M											
FR2	5733M	5752M	5771M	5790M	5809M	5828M	5847M	5866M											
FR3	5705M	5685M	5665M	5645M	5885M	5905M	5925M	5945M											
FR4	5740M	5760M	5780M	5800M	5820M	5840M	5860M	5880M											

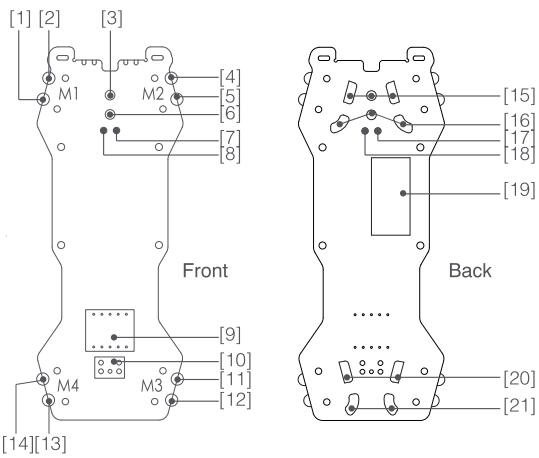
Installation

1. Mount the 5.8G antennas as picture shows.
2. Mount the propeller properly as below picture shows.



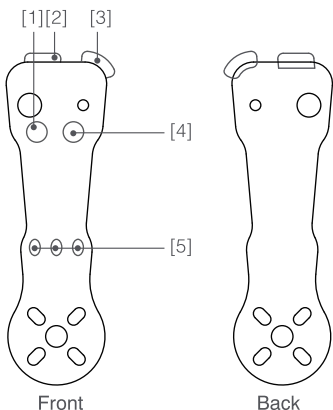
Connection diagram

Main board connection



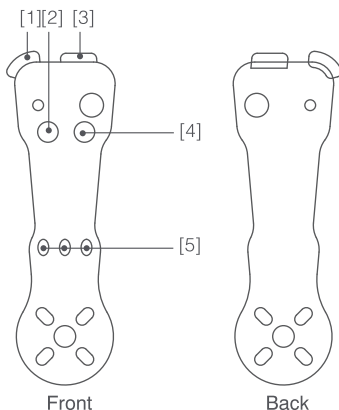
- [1] Negative solder pad for esc signal
- [2] Solder pad for esc signal wire
- [3] Positive solder pad for battery voltage
- [4] Solder pad for esc signal wire
- [5] Negative solder pad for esc signal
- [6] Negative solder pad for battery voltage
- [7] +5V
- [8] GND
- [9] 5.8G frequency-selection dial switch
- [10] 5.8G antennas pedestal
- [11] Solder pad for esc signal wire
- [12] Negative solder pad for esc signal
- [13] Negative solder pad for esc signal
- [14] Solder pad for esc signal wire
- [15] Positive solder pad for battery voltage
- [16] Negative solder pad for battery voltage
- [17] +5V
- [18] GND
- [19] 5V UBEC
- [20] Positive solder pad for battery voltage
- [21] Negative solder pad for battery voltage

ESC connection for left arm



- [1] Solder pad for esc signal wire
- [2] Positive solder pad for battery voltage
- [3] Negative solder pad for battery voltage
- [4] Negative solder pad for esc signal
- [5] Solder pad for motor

ESC connection for right arm



- [1] Negative solder pad for battery voltage
- [2] Negative solder pad for esc signal
- [3] Positive solder pad for battery voltage
- [4] Solder pad for esc signal wire
- [5] Solder pad for motor