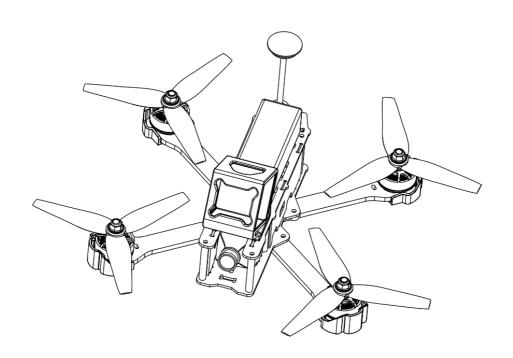
Wizard X220s

QUICK START GUIDE





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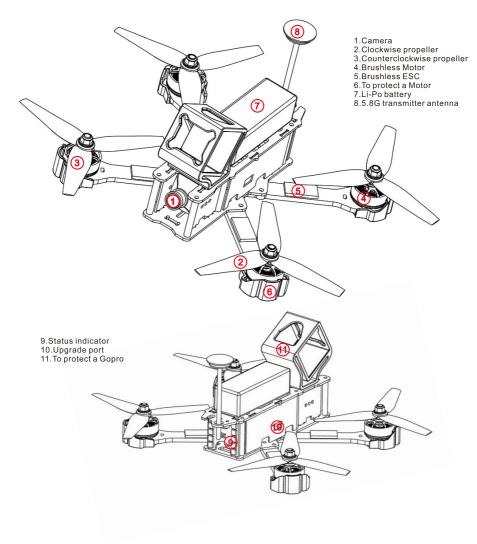
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1.0 Knowing your aircraft

- With its body structure made of carbon fiber composite, it features ultra-high tenacity and good resistance to impact.
- Brand-new industrial and modular designs are employed to improve its expandability, easeofinstallation/maintenance and expandability.
- Equipped with 5. 8G real-time video transmission system and OSD system, it brings about a different visual effect.
- It is capable of presenting forward/backward, right/left rollover and racing as well as other aerobatic flight experience

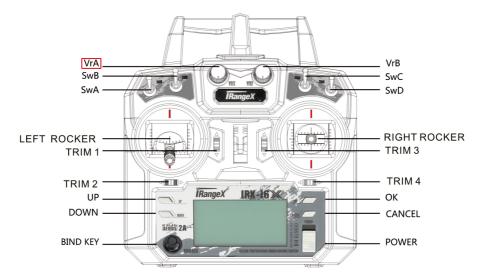


2.0 Knowing your remote controller

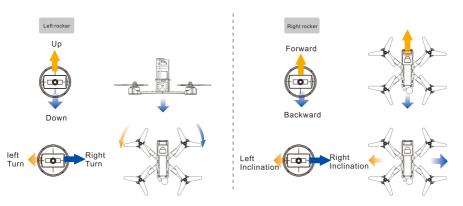
Remote controller is equipped with functional switches of primary flight/high-level flight modes, which are easy to operate. (You may select the flight mode suitable with your flying skill)

- Primary flight mode: the flight control system provided with autostability function can achieve stable operation but not rollover, which is suitable for beginners.
- ※ High-level flight mode: the flight control system provided with the autostability function can achieve highly flexible operation and rollover.

Primary flight mode	High-level flight mode
VrA counterclockwise rotation	VrA clockwise rotation



Take "left-hand throttle" as an example. The left rocker controls the aircraft's altitude and leading, while the right rocker controls its forward, backward, left and right movements.



3.0 Specification

Item	Specificat	tion								
Eachine Wizard X220S	Wheelbase: 220mm Frame arm: 4mm light material Weigh: 356g (without battery and camera mount) Take off weigh: 561g Package weigh: 1728g Use light composite material. 4mm thickness and 15mm width frame arms, the width is 10mm less than Eachine Wizard X220. Frame kit with camera angle scale and 30° camera mount for Runcam 3 Gopro session. Anti-vibration sponges to protect the racer frome crashing.									
Eachine MN2208 2300KV motor	KV. 2300 Max thrust: 1100G Length: 35MM NO.OF cell: 3-5S Diameter: 28MM Framework: 12N14P Shaft: 3MM Propeller: 5 inch Weight: 28g									
Eachine 30A BLHELI_S 4 in 1 ESC	Con. current: 30A Peak current (10S): 35A Input voltage: 2-SS BEC: No Programming: YES Firmware: biheil s Weight: 28g Size: 36'36MM									
Eachine 1179 800 TVL CCD camera	Color: purple Sensor: CCD Resolution(horizontal center): 800TVL Shell size: 25mm*25mm Weight: 11g Resolution: PAL: 1980H×1080 (2MP) NTSC: 1980H×1080V (2MP) Format: PAL/NTSC switchable Video output: 1.0Vp-p750 Automatic gain control: 0.25/0.50/0.75/1.00 adjustable, up to 55dB. AWB: ON/OFF Exposure mode: electron exposure Electronic shutter: 1/50/1/60) - 1/100000 S Gamma correction: 0.45/1.0 Synchronization method: internal synchronization Lens: standard 2.8mm lens Working voltage: DC12V (Wide Voltage, measured that can be work in 5-13V) Workig temperature: -20°C60°C Humidity: 0%-98% Strong backlighting effect									
5.8G 72CH 25MW 200mw 600MW switchable transmitter	Mdeo Format : NTSC/PAL Channet: 72CH Channet: 72CH Connector: SMA Female (Inner hole) Antenna Connector: SMA male (Inner needle) Band CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 Band-A 5865 5845 5825 5805 5765 5745 5725 Band-B 5703 5782 5771 5790 5809 5828 5847 5866 Band-E 5760 5685 5645 5885 5905 5925 5945 Band-F 5740 5760 5780 5800 5820 5840 5860 5880 Band-J 5658 5695 5732 5769 5806 5843 5880 5917 Band-U 5325 5348 5366 5384 5402 5420 5438 5456 Band-U 5333 5373 5413 5453 5493 5593 5600 Band-L 5333 5373									

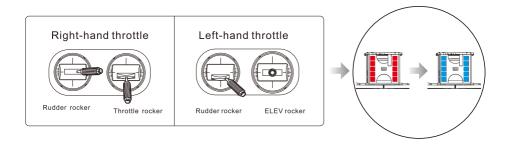
3.0 Specification

Omnibus F4 V3 flight controller	Size: 36x36mm Mount holes: 30.5x30.5mm STM32 F405 MCU, Runs Betaflight 3.0.1 firmware, could run faster loop time. Using F4 MCU controls OSD over SPI bus in DMA mode. OSD Configation has been included in Betaflight GUI. SBUS/PPM input (Pinheaders) 6PVM output (1-4Pinheaders and Sh1.0 Plug, 5-6 as Pinheaders) NO BARO SPI Sensor MPU6000 Included 128Mbit Flash, please always use BEC for the FC. Supported by BETAFLIGHT and dRonin
IRangeX IRX-I6X 2.4GHz 10CH remote control	Channel: 6-10 (Default 6) Model Type: Fixed-Wing/Glider/Helicopter RF Range: 2.408-2.475GHz RF Power: < 20dBm RF Channel: 135 Bandwidth: 500KHz 2.4GHz System: AFHDS 2A / AFDHS Modulation Type: GFSK Stick Resolution 4096 Low Voltage Warning: < 4.2V DSC port: PS/2 Port PPM Chargeable: No Antenna Length: 26mm (Dual Antenna) Weight: 392g Power: 6V DC 1.5AA*4 Display: STNTransflective Display, LCD 128x64 Lattice, VA 73x39mm, LCD with white backlight Stize: 174x89x190mm On-line Update: Yes Color: Black Certificate: CE0678, FCC ID: N4ZFLYSKYI6X
IRangeX IR-A8S receiver	Channels: PPM 8CH Model type: Multi-rotor Frequency range: 2.408-2.475GHz Band width: 500KHz Band number: 135 RX Sensitivity: -92 dBm 2.4GHz system: AFHDS 2A Modulation type: GFSK DSC port: PPM Transfer method: FHSS Data output: 1.5mm*3 Pin PPM Antenna length: 26mm (Not including brass contacts) Input power supply: 4.0-8.4V Display method: LED No ground interference (Transmitting and receiving 1 m from the ground): >300m Working current: 40mA Each channel data: depend on the transmitter Channel delay: <15mS Size: 20*14*5.3mm Weight: 1.2g Certificate: CE0678, FCCID: N45ZA8S00
1500mAH 4S 14.8V 75C battery	Capacity(mAh): 1500 Cells (s): 4 Weight (g): 177 Length(mm): 80

4.0 Motor Unlock/Lock

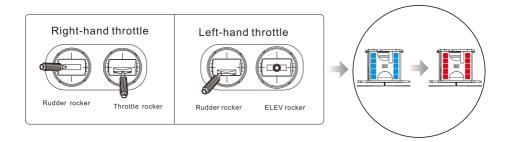
Motor Unlock

Place the throttle lever at the lowest point, set the rudder rocker to the right and hold for more than two seconds, the red state indicator turns blue and the buzzer gives the "BB" sound to unlock the motor.



Motor Lock

Put the throttle rocker at bottom and the rudder a handle to the left and status indicator light blue to red and "BB" from the buzzer sound when the lock for motor, the push up the throttle rocker motor won't turn.



5.0 Notes for flight

- 1) It is intended for pilots aged 14 or above with model hobby experience.
- 2) Only fly it in dry weather with low wind, please do not fly in rain, snow or heavy foggy conditions.
- 3) An open fleld lawfully permitted must be selected for flying in line with your mental condition and flying skill.
- 4) Always keep a certain distance from aircraft and keep it from high-speed rotating parts, such as propellers or brushless motors.
- 5) Do not fly around high-voltage power lines, cellphone basestation or radio towers, as they are likely to interrupt your communication.
- 6) Always check local laws before flying, never fly an illegal flight

6.0 charging

- \bigcirc Plwer adapter is connected to mains power (100~240V 50/60HZ), When its output terminal is connected to charger, the charger;s green LED light flashes.
- 2Plug the charging terminal of battery into charger.
- ③Red LED light remains on during battery charging, and green LED light remains on when charging is completed.