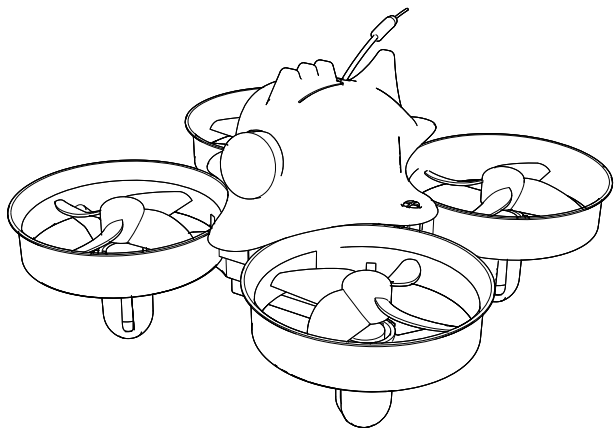# Armor Blue Shark

INSTRUCTIONS FOR USE

Makerfire

www.Makerfire.com

Disclaimer & Warning

1. Please read this Disclaimer & Warning and Safety Guidelines carefully before using our product. This product is not recommended for people under the age of 14. By using this product, you hereby agree to this disclaimer and signify that you have read it fully. You agree that you are responsible for your own conduct and any damages caused while using this product, and its consequences. You agree to use this product only for purposes that are proper and in accordance with local regulations, terms, and all applicable policies and guidelines.

2. When using this product, please be sure to strictly abide by the specification requirements and safety guidelines stated in this document. Any personal injury, property damage, legal disputes and all other adverse events caused by the violation of the safety instructions or due to any other factors, will not be MAKERFIRE's responsibility.
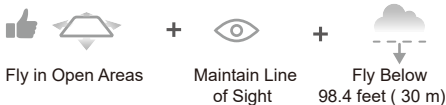
• The drone is designed for 14+
• Adult supervision is always advisable with any form of flying toy
• Always ensure the flying area is free of any obstacles before taking off, and ensure the drone is
  always flying in excess of 1.5 meters from yourself and others
• Remove all batteries from the drone and controller when not in use
• Never overcharge
• Never leave to charge unattended
• Never touch the drone's motors during or after its flight as they can get hot
• Never touch the propellers when they are rotating
• If the drone broken, stop using it immediately
• Do not dispose any parts of the drone or controller as normal rubbish, all parts should be
  taken to the local recycling centre
• The battery in the drone should never be exposed to any form of high temperature or fire

Safety Guidelines

1.Check Before Use

(1).This product is not a toy, but it is a high precision drone that integrates various electronic stability and control mechanisms.Please be sure to setup this drone carefully and correctly to ensure safe,accident-free operation.
(2). Please be sure that the batteries of the drone and transmitter are clean, undamaged and have enough power.
(3). Please be sure that all the propellers are undamaged and are installed in the right orientation.
(4).Please do a thorough check of the product before each use.Check for firmness of the parts, any signs of cracks and wear of the propeller,battery power and effectiveness of the product until the issue has been taken care for.

2.Safe flight Environment

Fly in Open Areas Maintain Line Fly Below
of Sight 98.4 feet (30 m)

1.Make sure the surrounding area is free of all people,pets or other obstacles before you start to
  fly your drone.
2.Your drone is designed for indoor or outdoor use.However,it is not recommended to fly the drone
  inside if there is limited space, or outside if there is any wind.
3.Keep a safe playing distance between you and the drone all the time.

3. Use of Battery

(1) Please ensure batteries are fitted in the correct orientation as shown in the instruction manual.
(2) Avoid short circuits by fiting the batteries incorrectly, and do not crush or squeeze the batteries
    as this could carry the risk of an explosion.
(3) Do not mix new and old batteries as this can lead to a poor performance of the product.
(4) Dispose the used batteries carefully.
(5) Please keep dead batteries away from heat and fire.
(6) If the device is not going to be used for an extended period of time, remove batteries to prevent
    potential damage from battery leakage.
(7) It is recommended to only use the USB charging cable that comes with the drone to charge the
    battery.
(8) Don't connect the battery directly to wall outlets or car cigarette-lighter sockets.
(9)Don't attempt to disassemble or modify the battery in any way.
(10) Don't use the battery if it gives of an odor, generates heat, becomes discolored or deformed,
    or appears abnormal in any way. If the battery is in use or being charged, remove it from the
   device or charger immediately and discontinue use.

Li-Po Battery Disposal & Recycling

Waste Lithium-polymer batteries must not be placed with household trash.
Please contact local environmental or waste agency or the supplier of your
model or your nearest Li-Po battery recycling center.

Package list

Drone	Controller
Propeller Ax2, Propeller Bx2	USB charging cable x 1
Battery	Screwer
INSTRUCTION MANUAL	MINI FPV GOGGLES

Specification

Drone
Wheelbase:66mm
Dimensions: 83.5x83.5x45.6mm
Weight: 23g(without battery)
Motor:6015 1S brushed motor
Battery: Li-po,3.7v 250mAh
Max Flight Time: 5 mins
Operating Temperature Range: 0° to 40°C

Transmitter
Operating Frequency: 2.4GHz
Max transmission distance: 30m
Battery: 1.5V AAA
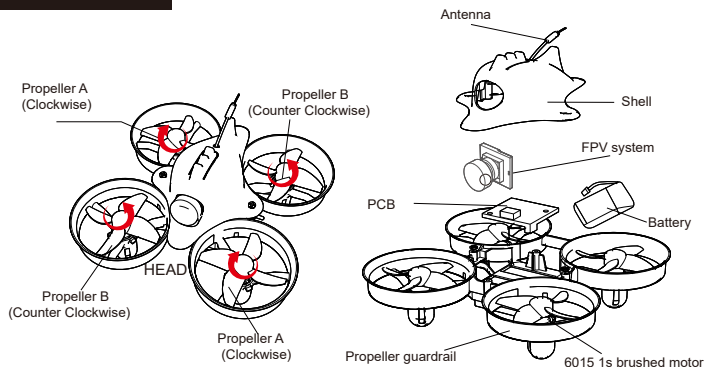Operating Temperature: 0° to 40°C

Frequency Table

Unit:MHz

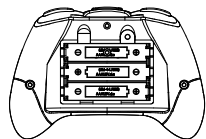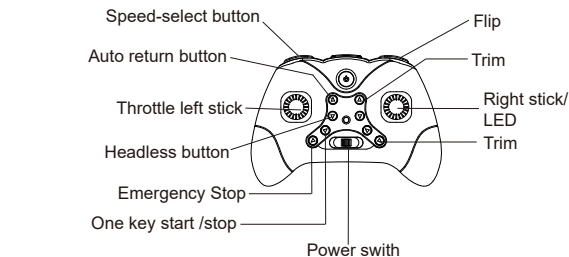|	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	5865	5848	5825	5805	5785	5765	5745	5725
Band B	5733	5752	5771	5790	5809	5828	5847	5866
Band E	5705	5685	5665	5645	5885	5905	5925	5945
Band F	5740	5760	5780	5800	5820	5840	5860	5880
Band R	5658	5695	5732	5769	5806	5843	5880	5917
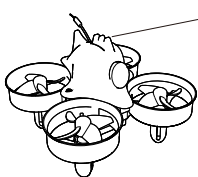
Button

Short press the button to adjust the frequency function, and switch between the frequency points FR1-FR8.

Drone's details

Antenna

Propeller A (Clockwise)

Propeller B (Counter Clockwise)

Shell

FPV system

PCB

Battery

HEAD

Propeller B (Counter Clockwise)

Propeller A (Clockwise)

Propeller guardrail

6015 1s brushed motor

It is crucial that all the propellers are installed in the correct position
(Pay attention to the letter A or B printed underneath each propeller.)

Controller functions

Speed-select button

Auto return button

Throttle left stick

Headless button

Emergency Stop

One key start /stop

Flip

Trim

Right stick/ LED

Trim

Power swith

3Pcs of "AAA"batteries
(not included)

① 15V /AAA ⊕

① 15V /AAA ⊕

① 15V /AAA ⊕

· Always use alkaline batteries
· Never mix old and new batteries

1. Unscrew the battery cover,and insert 3xAAA batteries(not included), making sure you insert them following the correct polarity as shown
2. Re-attach the battery cover

Charging the drone battery

Power Bank
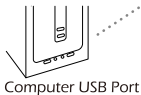
Plug the USB plug into the computer's USB port (or the charger with a DC5V output USB port).When connected,the indicator of the USB charging cable will on.Then connect the battery to the USB charging cable.

USB Adapter
(5V/0.5-2.0A)

The indicator light off means it is in charging; and the indicator light on means it is fully charged.Charge takes 30-40 minutes.For safety, it's better to keep the charger in sight when charging.

Computer USB Port

WARNING
Do not leave the battery unattended while charging & only use the supplied battery or plug charger.

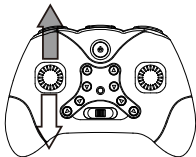## Pairing your drone to the controller

TAIL
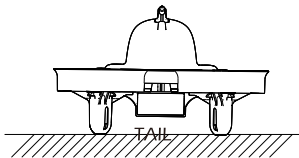
1. It is recommended to connect the battery plug cable to the drone battery socket before inserting the battery into drone battery chamber. The LED on the drone will start to flash. Place the drone down on a flat surface
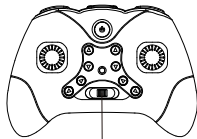
power swith

2. Turn on your controller. Your controller will beep once & LED light will flash

3. Push left throttle up once & controller will beep once

4. Pull left throttle down once & controller will beep again. Pairing is complete once the drone lights & controller lights stop flashing

Flying your drone

1. Taking Off/ landing:

Taking Off

Method 1:
Press the one key start button, the propellers will rotate . Push up the throttle left stick to take off.

Method 2:
Push the throttle left stick up until the propellers rotate and then push up the throttle left stick again to take off.

Landing

Method 1:
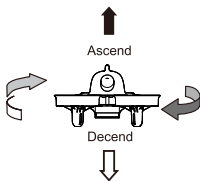Press the one key stop button, the drone will land by itself

Method 2:
Push the throttle left stick down until the drone land
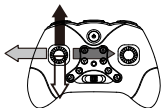
Take Off/
Landing Method 2
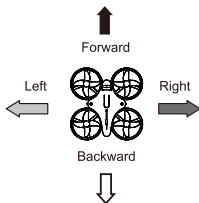

Take Off/
Landing Method 1

2. Altitude & rotate:

Ascend

Decend

Use "throttle left stick" to control the altitude & rotation during flight.

3. Forward / backward / left / right:

Forward
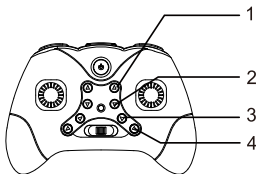
Left   Right

Backward

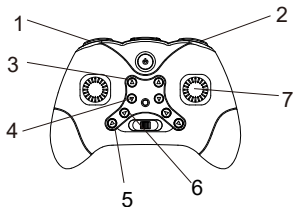Use "throttle right stick" to control forward, backward, left & right movement during flight.
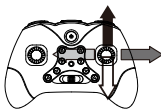
4.Trimming:

If the drone sways in an unprompted direction, use the trim buttons to correct the flight:

1- Forward trim
2- Backward trim
3- Left trim
4- Right trim

Features

1.Speed modes:
  Select between 3 speed modes:
  40% speed (controller makes 1 beep);60% speed (controller makes 2 beeps);
  100% speed (controller makes 3 beeps)

2.360° Flips:
  Perform 360 flips by pressing the "flip" button and immediately push the right stick to the
  direction that you want the drone flip.

3.Auto return button:
  Press the auto return button, the drone will automatically return in the direction of the tail
  before takeoff. (Most of all, consumers must keep in mind the drone orientation before the
  drone takes off, otherwise the return direction of the drone will deviate.)

4.Headless mode:
  In order to activate this mode,press the headless button you will hear incontinuous beeps,
  the drone will displace according to the direction of the stick command do not matter where
  the drone is pointed at. Press the headless button again,to go back to the normal mode.

5.Emergency Stop:
  Press the button on the controller, the motors will stop spin immediately.

  ⚠️ Only stop motors mid-flight in an emergency situations,
  Doing so can reduce the risk of damage or injury.

6.One key start/stop:
  Press the one key start button, the propellers will rotate. Push up the throttle
  left stick to take off.

  Press the one key stop button, the drone will land by itself

7.LED:
  Press the LED button to turn off/on the lights.

Resetting the drone

When the flight of the drone is unstable or deviated from the left and right after take-off, the
consumer can correct the gyroscope and the flight will be more stable after the correction.

1. Turn on the drone & controller, place the drone on
   a flat ground (it is very important), then push the left
   throttle of the controller up & down once to pair with
   the drone.
2. Then push left throttle of the controller to bottom left
   and right throttle to the bottom right at the same time
   and hold for a few seconds. This will reset the drone
   to its defualt settings & will be ready to fly again.

Trouble flying

Problem	Possible cause	Solution
The indicator lights of the drone are flashing and does not respond to the transmitter.	1.Transmitter is not synced to the drone. 2.Insufficient battery power.	1.Refer to the preparation for FLIGHT and pair again. 2.Recharge the battery.
The propellers spin,but the drone cannot take-off.	1.Insufficient battery power. 2.The propellers are installed in wrong orientation. 3.The propellers are distorted.	1.Recharge the battery. 2.Install the propellers in right orientation. 3.Replace the propellers.
The drone sways sharply.	The propellers are distorted.	Replace the propellers.
Drone cannot stay balanced in flight.	1.The propellers are distorted. 2.The motor doesn't work properly.	1.Replace the propellers. 2.Replace the motor.
The drone is out of control after crashing.	Six-axis acceleration sensor losed its balance after crashing.	Restart and re-calibrate the drone.