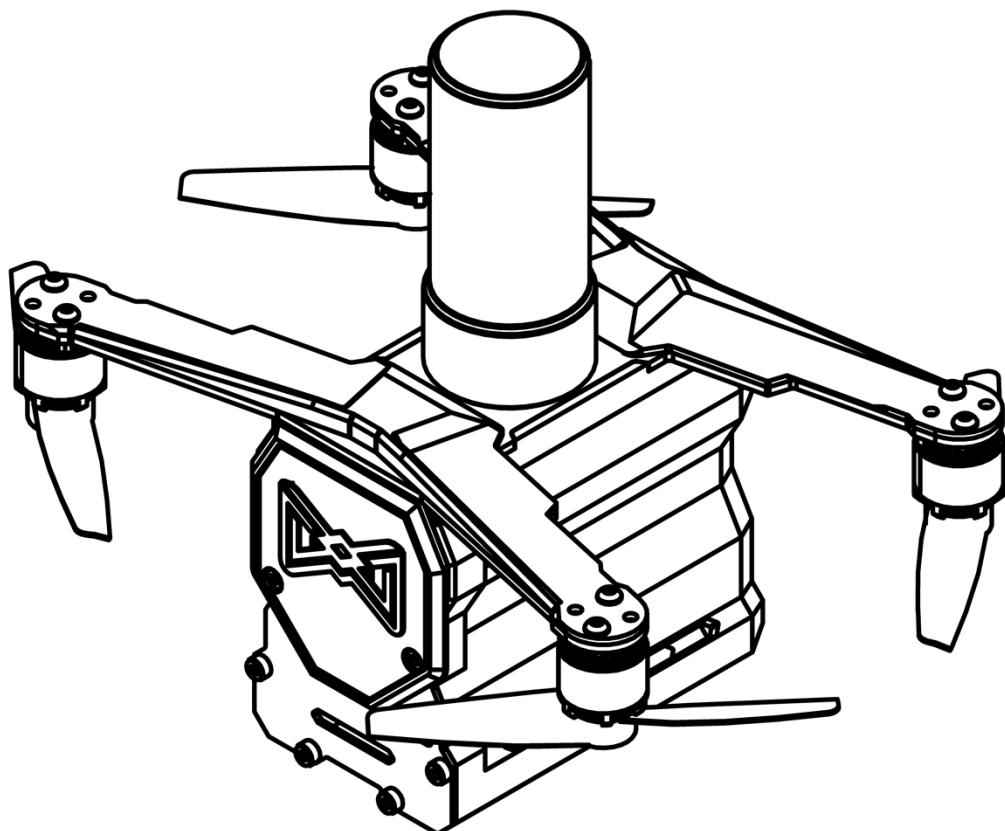


# CYBERLIGHT

User Manual V1.0

2020.11



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# Introduction

The Cyberlight is a fast and extended flight time drone with high accuracy performance to ensure stability during the drone light show.

## **Unparalleled production**

In-house drone, better throttle control, and smoother motion.

## **Long duration**

A 20-minute drone show instead of 10 minutes.

## **Lightweight**

285g drone obtain powerful rotors that provide the best balance of efficiency.

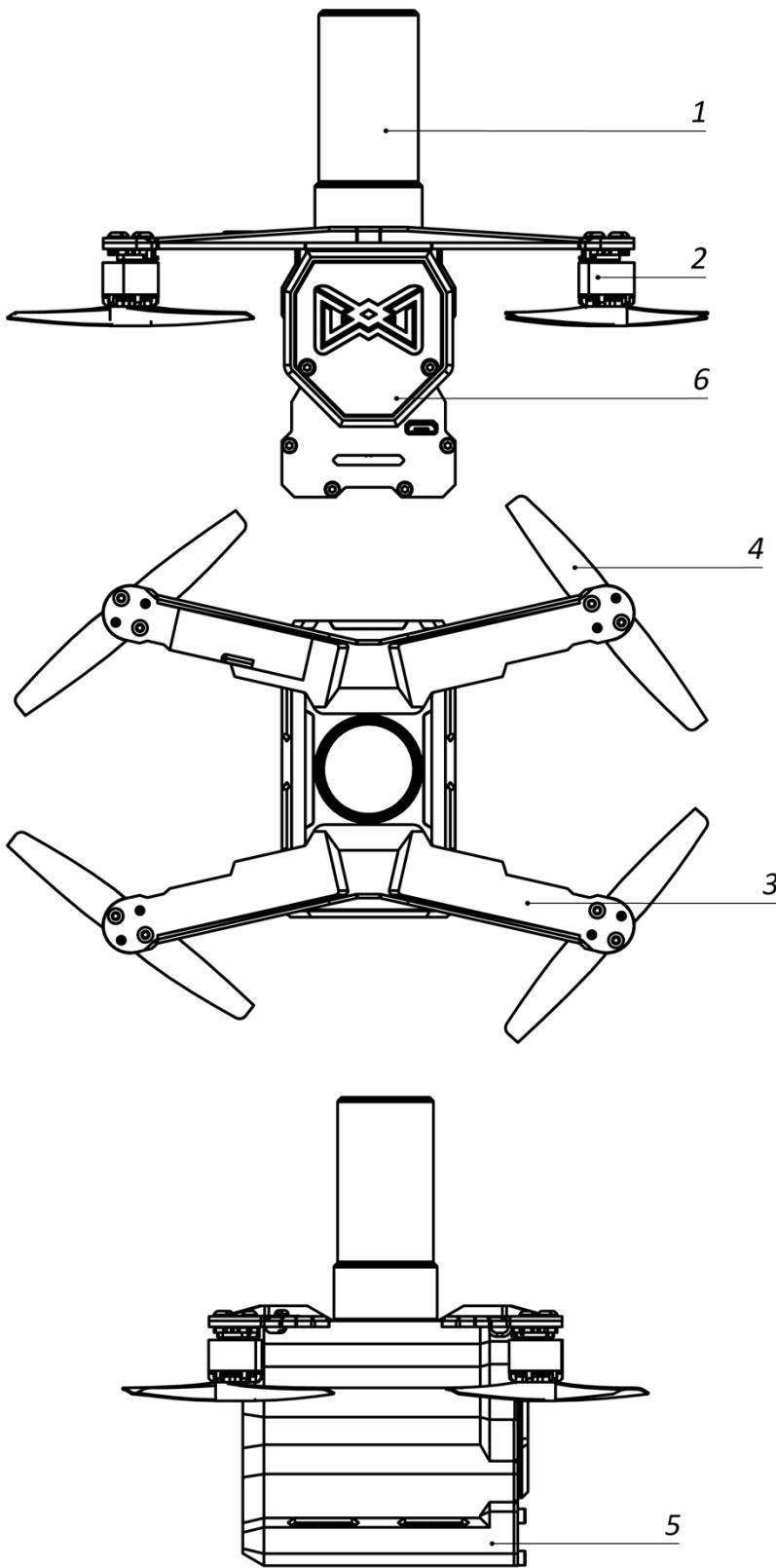
## **High stability and accuracy**

Dual-frequency global navigation, high-resolution animations, and flight stability.

## **Brighter than ever**

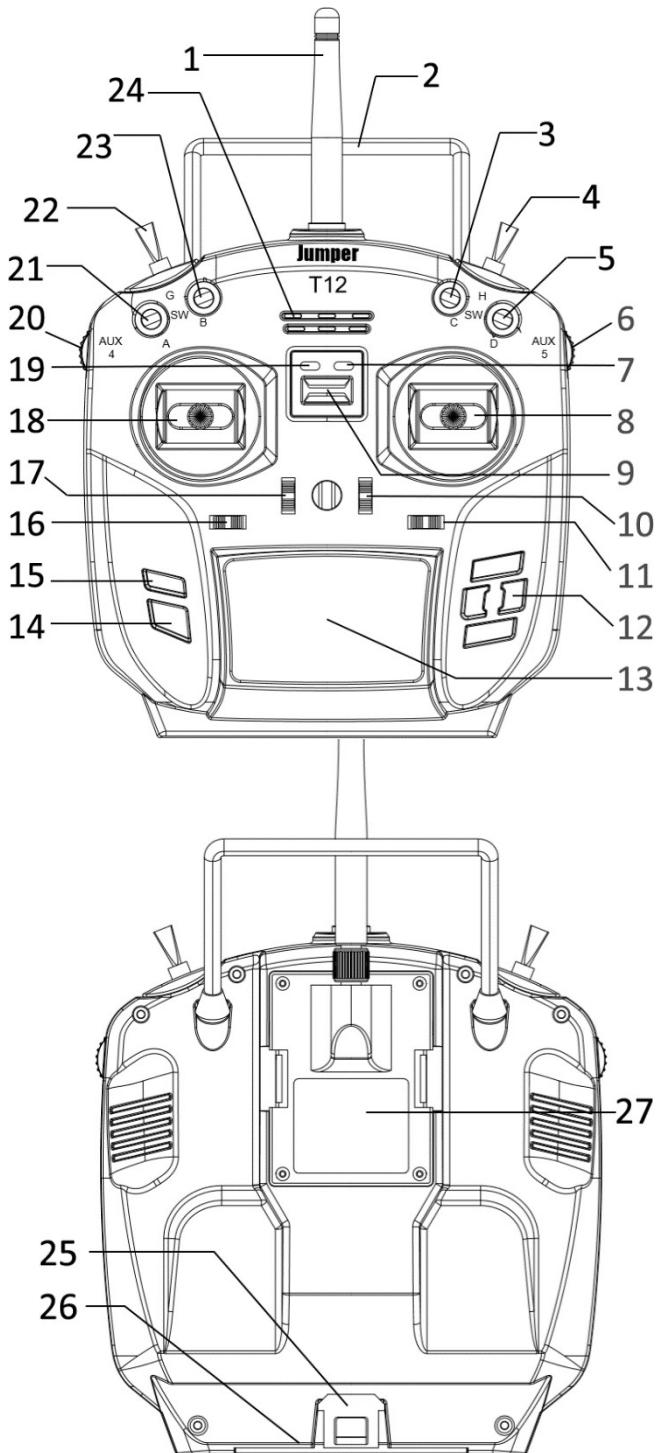
18 watts LED in all direction, a better LED lighting efficacy.

# Drone diagram



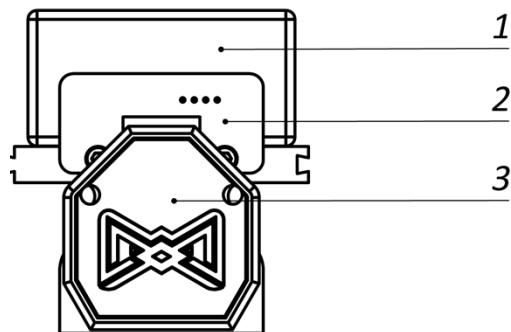
1. Navigation antenna  
GPS/GLONASS/GALILEO  
/BEIDOU
2. Motors
3. Frame
4. Propellers
5. LED lighting system
6. Battery

## Remote controller diagram

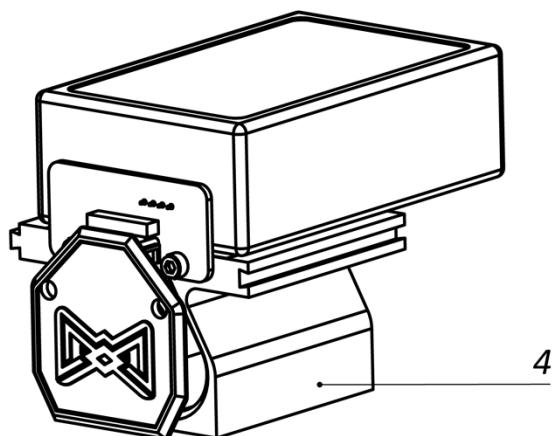


- 1: Antenna (if equipped with RF Module)
- 2: Handle
- 3: SWC three-segment switch
- 4: SWH two-segment switch
- 5: SWD three-segment switch
- 6: AUX5 knob
- 7: RF indicator
- 8: Throttle / Aileron
- 9: Power switch
- 10: Digital trim key
- 11: Digital trim key
- 12: Menu direction key
- 13: Display Screen
- 14: Exit key
- 15: Confirm key
- 16: Digital trim key
- 17: Digital trim key
- 18: Direction / Tilt Joystick
- 19: Power Indicator
- 20: AUX4 Knob
- 21: SWA three-segment switch
- 22: SWG two-segment switch
- 23: SWB three-segment switch
- 24: Loud Speaker Bay
- 25: Battery Bay
- 26: TF Memory card slot
- 27: JR/FrSKY Module (included with T12+JP4-in-1 combo only)

# Charger diagram



- 1: Charher (Input voltage: 100v-240v AC)
- 2: Battery Adapter
- 3: Battery
- 4: Plug
- 5: Power cord



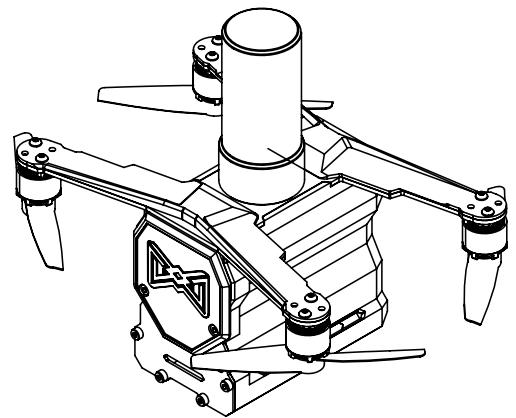
# Flight preparation

- Fully charge the drone battery. Do not leave the battery connected to the charger unattended
- Insert the battery into the compartment at the bottom of the quadcopter, gently pushing the battery until bumping.
- Switch on the remote controller. Press power button and hold it down until the screen is turned on. The battery level will be shown on the upper right corner of the screen. Make sure that the battery level is sufficient to complete the flight.
- The Cyberlight equipped with powerful motors and sharp spinning propellers. Please exercise caution when working on it and keep it in sight. Ensure power of remote controller is disconnected from the Cyberlight and remove propellers when performing maintenance.



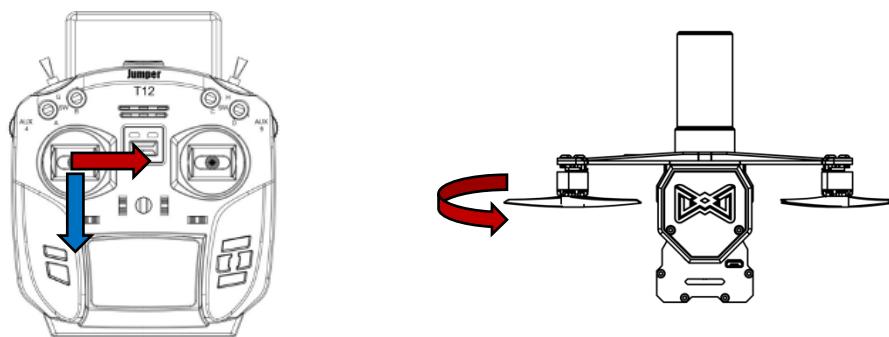
## **Do not operate the system under the following conditions:**

- Do not operate the remote controller radio system under the follow conditions.
- During bad weather or high wind conditions such as rain, hail, snow, storms or electromagnetic events.
- During any conditions of limited visibility.
- In areas where people, property, powerlines, roads, vehicles or animals may be in present.
- If the radio or model appear to be damaged or not functioning correctly.
- In areas of high 2.4ghz interference or in locations where use of 2.4ghz radios is prohibited.
- When the battery is the T12 or the model is too low to function.

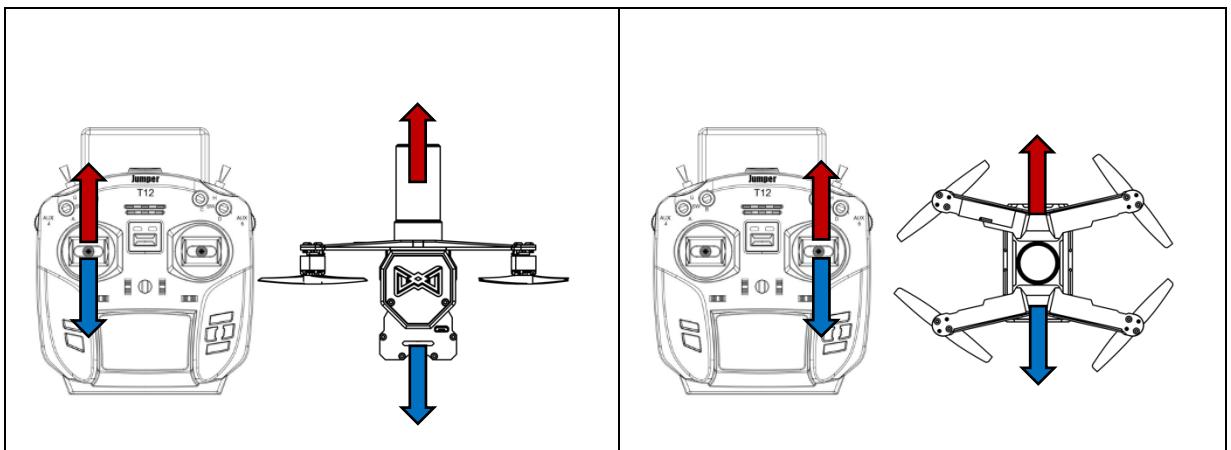


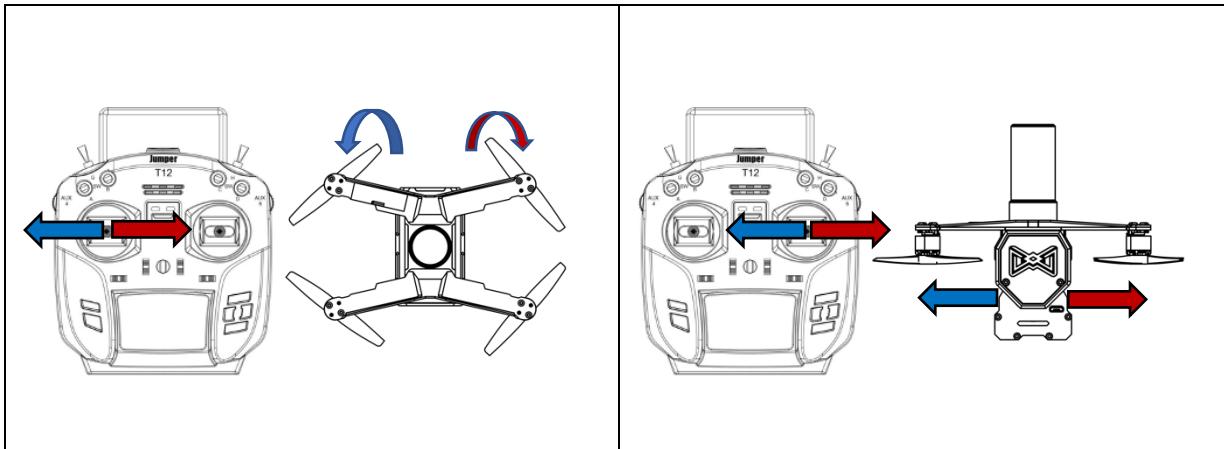
# Flight

1. **Start:** move the left throttle to the right and left, and hold it in this position until the propellers start.

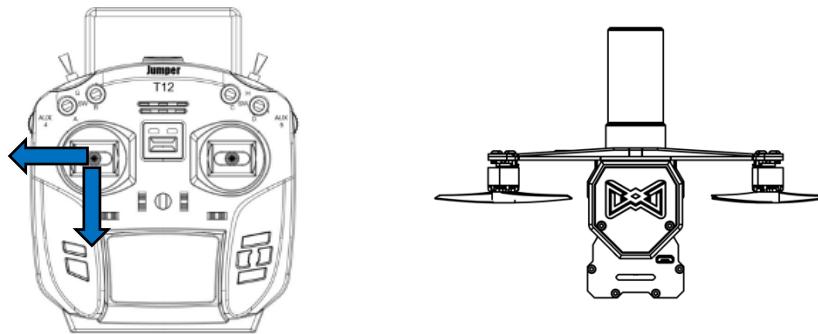


2. Perform the flight, controlling the quadcopter by sticks and mode switch.





3. After landing, **stop** the propellers by moving the left throttle to the left and down, and hold it in this position until the propellers stop.



4. After completing the flight, carefully unplug the battery from the drone.
5. Switch off the remote controller. Press power button and hold it down until the remote controller unit screen has turned off.

# Maintenance, storage and disposal

## Drone

- Remove the battery from the drone before storage.
- Keep the drone in a dry place, away from heat sources, in a package that prevents mechanical damage.
- Keep the original packaging for convenient transportation and storage.
- The product contains electronic components and chemical power supplies. The components of the product at the end of service life should be disposed of in accordance with local legislation.

## Battery and charger

- The battery must stay in the operating temperatures outlined in its data sheet
- The battery must not exceed voltage, current, and other ratings in its data sheet
- Be careful not to short-circuit
- Store batteries separately, and do not transport without proper packaging
- Never store or transport together with conductive or metallic objects particularly in a pocket or bag
- Do not keep in the sun, in a hot car, or anywhere with direct heat
- If you notice an unusual odor, rust, can deformation, damaged surface, or fluid discharge, especially on first use, discontinue use and contact our hotline
- Keep the battery away from animals and children
- If the battery is attached to a PCB, keep it away from high-static environments
- When nominal capacity after full discharge cycle is less than 80% of rated capacity, please discontinue use
- Recycle discontinued batteries according to local regulations and cover terminals with insulating tape before disposal

# Specification and support

## Drone

Type	Multi-rotor
Flight time	Up to 30 minutes
Takeoff weight	285g
Dimensions	100mm x 150mm x 150mm
Operating temperature	0 °C - 40 °C
Air speed	Up to 60 km/h
Flight altitude	Up to 1000 m
Engine	Electric brushless motors

## Remote controller

Size	158mm x 150mm x 52mm
Weight	342g
Working voltage	DC5-DC9V (factory with 4 * AA battery box, 2s Lipo recommended, batteries not included)
Firmware	OpenTX
Channels	Up to 12 channels
Display	1.7-inch LCD display, 128*64 resolution
Simulator mode	Potentiometer

## Battery

Voltage, charge max.	12.6V
Voltage, nominal	11.1V
Voltage, discharge end	7.5V
Capacity	3000 mAh
Energy	33.3Wh

Operating temperature	0 °C - +45 °C
Storage temperature	-20 °C - +35 °C
Humidity	15% - 65%

## Support

Please retain your proof of purchase and contact us.

Email: info@cyberdrone.show

### FCC Warning

#### 15.19 Labeling requirements.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

#### 15.21 Information to user.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### 15.105 Information to the user.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on,

the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### FCC RF Radiation Exposure Statement:

1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.