

Fiber module SE 60km

User manual



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1. Product overview



Fig.1. Air unit

1. Sky End fiber optic interface
2. LED Indicator
3. SH1.0 serial port

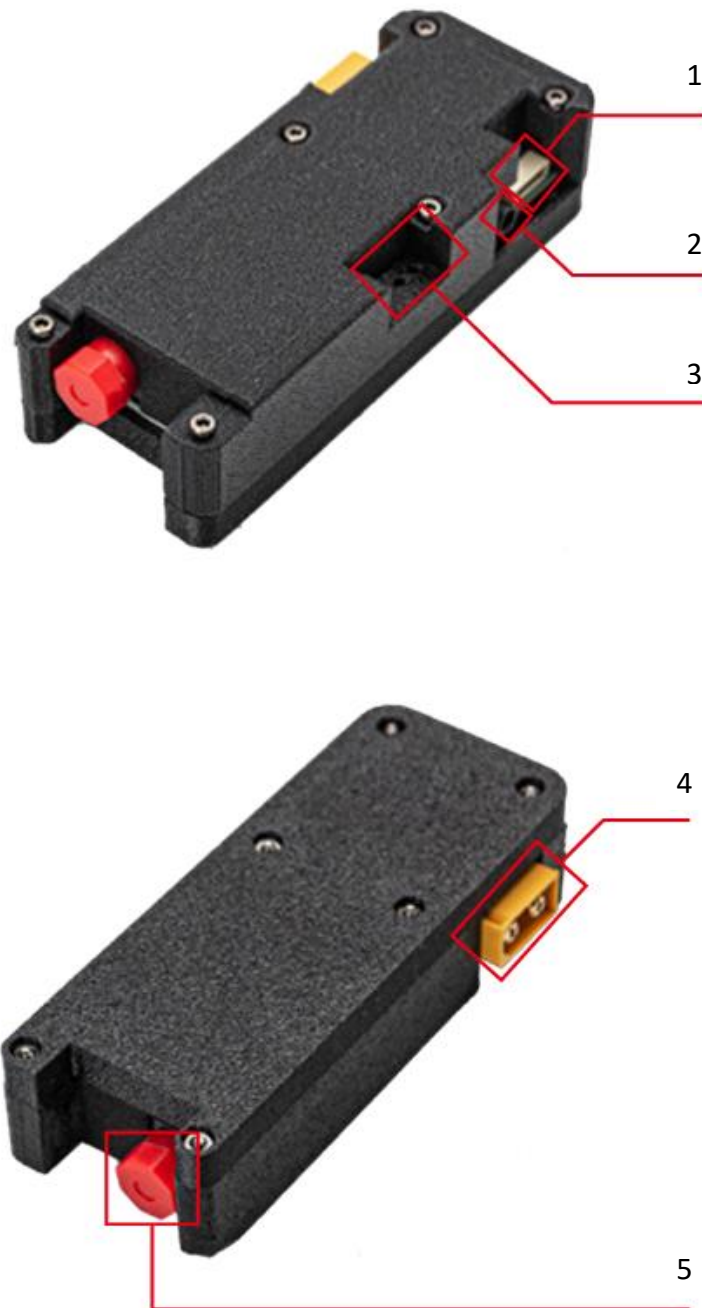


Fig.2. Ground unit

1. SH1.0 serial port
2. Video output port
3. LED Indicator
4. Power connector
5. Ground End fiber
6. optic interface

1.1. LED indicator definition



Fig.3. LED indicators air unit

- Power indicator
- Fiber Optic Mapping Indicator
- Image Signal Indicator
- Data Signal Indicator



Fig.4. LED indicators ground unit

- Power indicator
- Fiber Optic Mapping Indicator
- Image Signal Indicator
- Data Signal Indicator

2. Installation angle

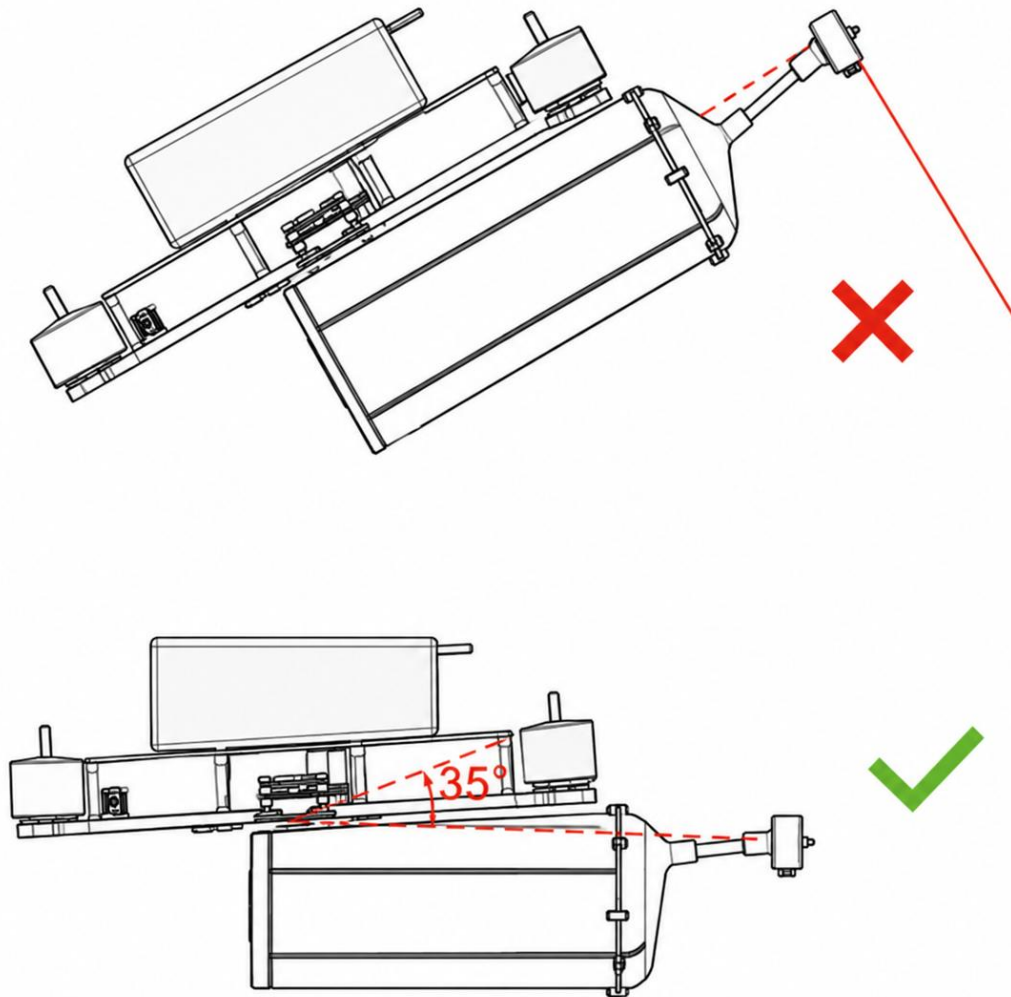


Fig.5. Installation angle diagram

Installation Precautions

1. Fiber optic disk installation, fiber optic disk outlet nozzle should be as far away as possible from the propeller, but to pay extra attention to the aircraft gravity. The center of gravity of the aircraft should be paid extra attention to.
2. Fiber optic disk installation should be based on the aircraft's tilt angle, the mounting bracket should be reserved for a certain angle (as shown in the figure). Installation The mounting angle should be close to the tilt angle, so that the fiber optic disk outlet angle is horizontal.
3. Fiber optic winding uses special glue, the first 200 meters of distance is the glue application area, in this area the flight speed of the aircraft should be controlled at a constant speed of 0.5 mph. The flight speed of the aircraft should be controlled within 30km/h or 8m/s to avoid high speed flight in the glue area.

3. Installation & Setup

3.1. Preparation before using the optical disk

The optical fiber disk outlet FC fiber optic port of the protective shell before use need to remove, draw out the optical fiber into the ground end of the module block FC interface.

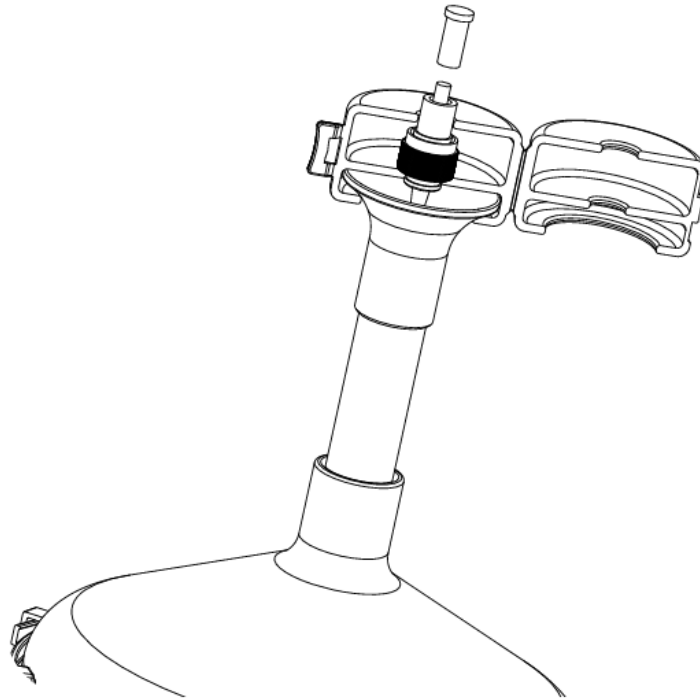


Fig.6. Preparation before using

3.2. Ground Side Wireless Connection

1. Connect the SH1.0 cable from the sky terminal to the flight controller.
2. Connect the ground SH1.0 line to the receiver and the map transmitter.
3. Fix the sky end and fiber optic disk, pay attention to the fiber optic nozzle as far as possible away from the UAV propeller to avoid entanglement accident.
4. Connect the fiber optic harness, connect the FC ports on both ends of the fiber optic disk to the FC port on the sky end and the FC port on the ground end, and note that the nozzle end is connected to the FC port on the ground end.
5. Insert the lithium battery of the ground end into the ground end connector after it is fully charged.

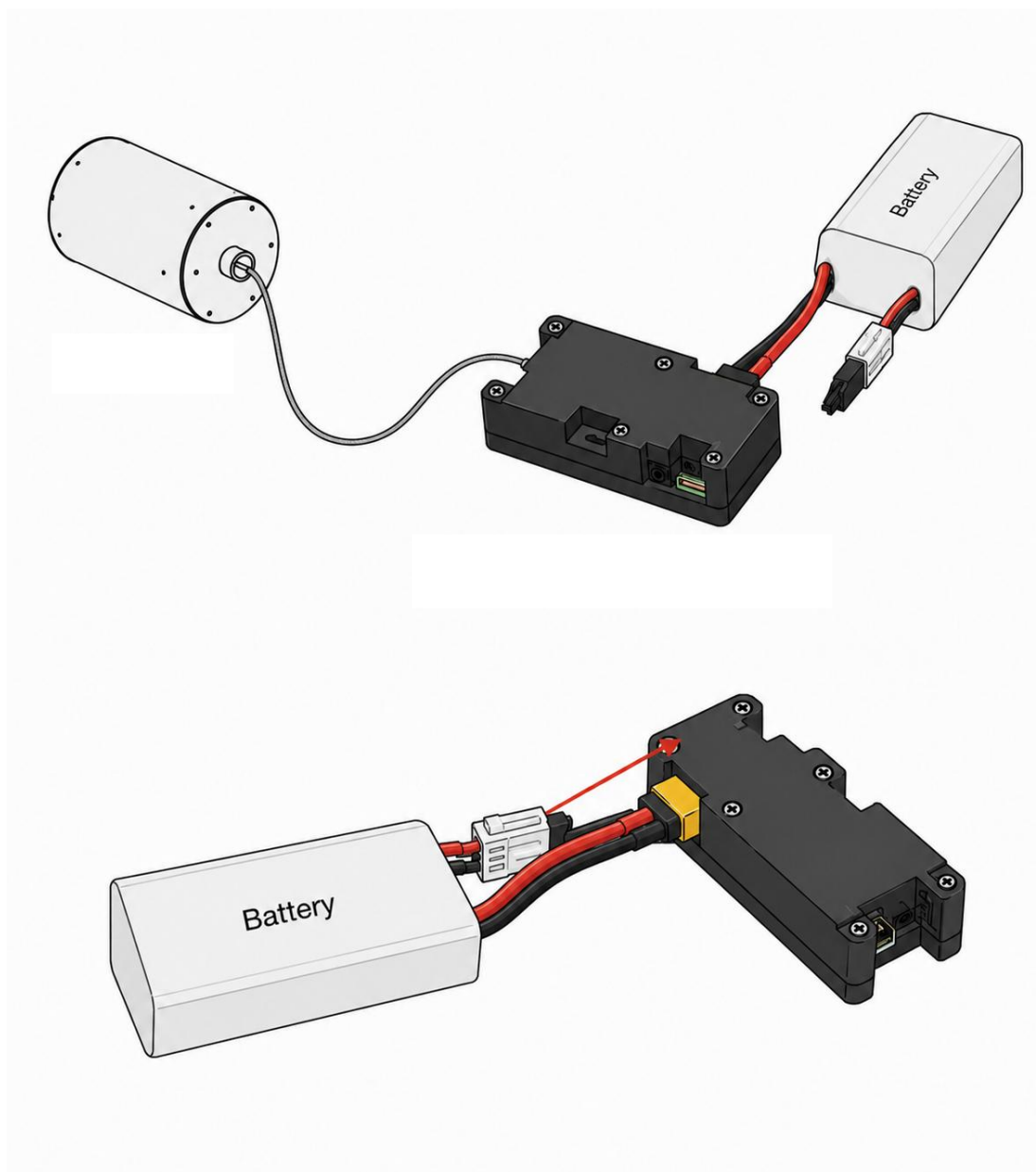


Fig.7. Connection diagram

4. Safety & Compliance

- The input voltage 11.1-26v is within the safe range, please do not exceed or fall below the limit voltage, do not reverse the positive and negative poles.
- Do not make the optical fiber folding circle, to avoid being cut by sharp objects and lead to fiber breakage.
- Pay attention to the protection of fiber optic connectors and FC interfaces, avoid dust and oil and water, save the interface protection cover well twisted.
- Store in a cool, dry and light-proof area.
- Fiber optic disk precision structure, gently take and put, vertical storage.

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