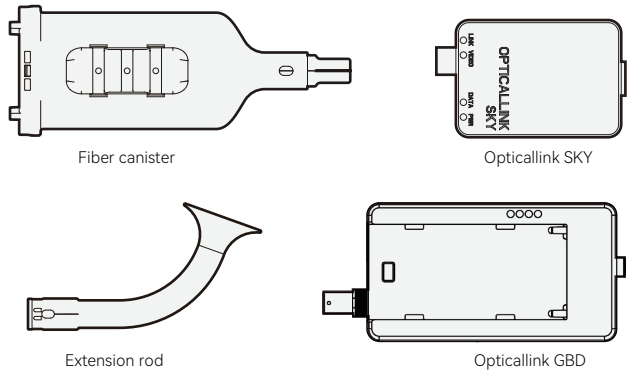
GPJ09-GXT Fiber Canister Product Manual

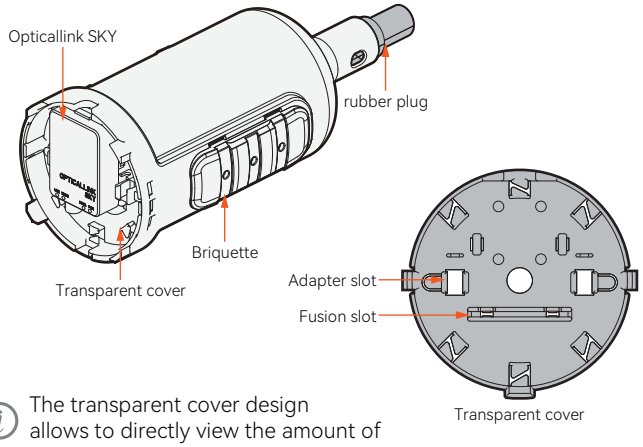
1. Product configuration

The GPJ09-GXT fiber canister - optical graphical module contains the following product components:



2. Product structure

The product structure of the fiber canister is shown below.



ⓘ The transparent cover design allows to directly view the amount of fiber remaining in the fibre-winding drum.

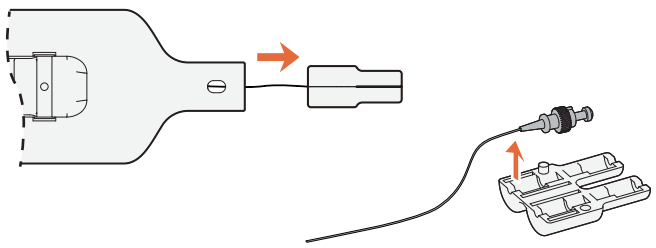
3. Product installation

3.1 Preparation before installation

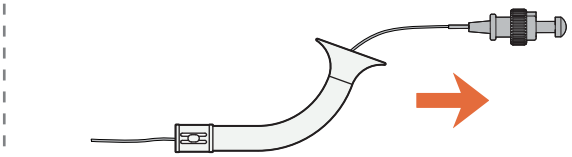
Arranges all components in order of installation: fiber canister, extension rod, opticallink SKY, opticallink GBD. Installation tools include tie wraps, scissors, and cleaning pen.

3.2 Extension rod installation

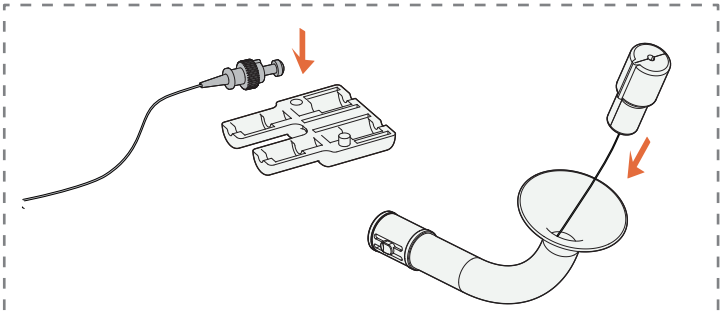
① Remove the rubber plug located at the end of the fiber canister and subsequently remove the FC connector inside the plug.



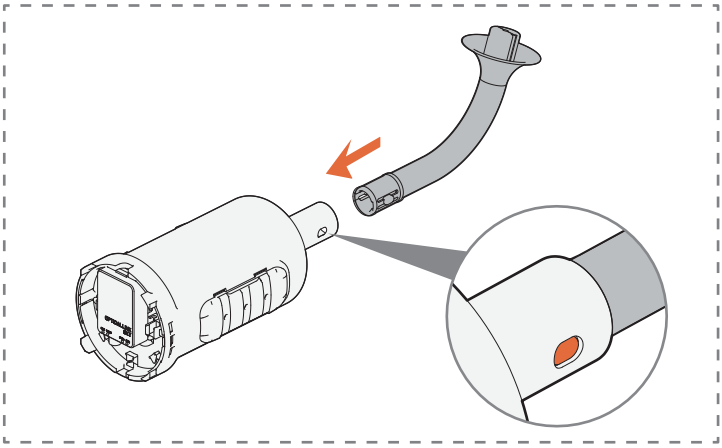
② Thread the connector through the inside of the extension rod.



③ Flip the rubber plug 180°, adjust its orientation, insert the connector into the plug to secure it, then install the plug into the extension rod.

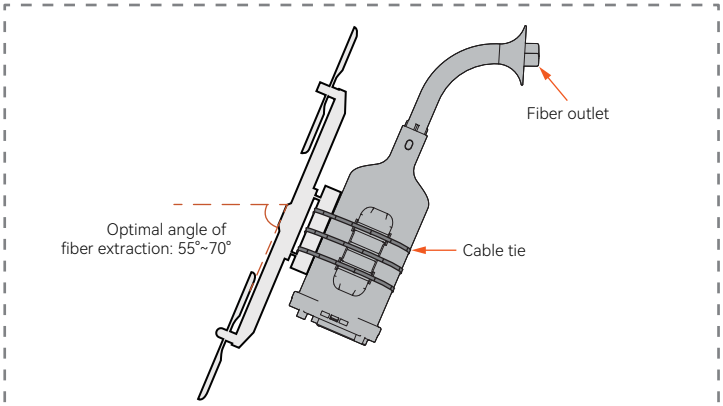


④ Align the protruding part of the extension rod with the slot in the fiber canister, push it in and it will be firmly clamped to complete the installation.



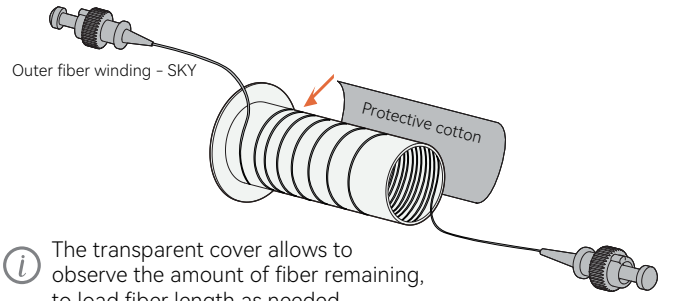
3.3 Fiber canister fixing

Use cable ties to secure the fiber canister onto the binding position. The fiber outlet of the canister should be as far away from the propeller as possible, and special attention should be paid to the balance point of the aircraft's center of gravity.



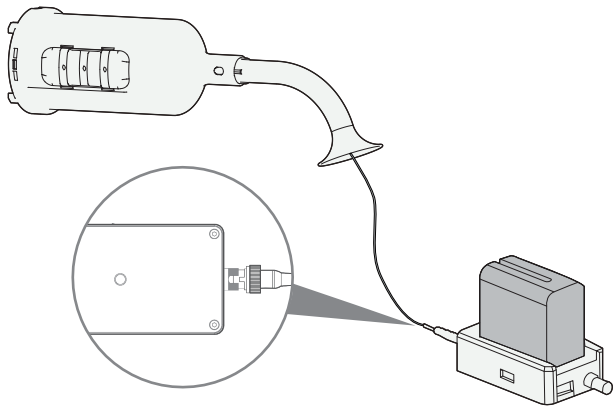
3.4 Fiber connection

① A protective cotton layer is attached to the outer layer of the fibre-winding drum to prevent it from being directly squeezed by the briquette. The fiber wound inside the drum will be connected to the GBD, while the external fiber on the drum surface will be connected to the sky module on the other end.



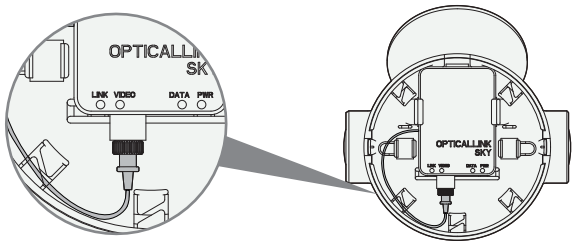
ⓘ The transparent cover allows to observe the amount of fiber remaining, to load fiber length as needed. The inner core supports replacement.

② Open the rubber plug, take out the FC connector and remove the dust cap. Insert the FC connector into the FC interface of the GBD module, align the dimples and tighten the connectors.

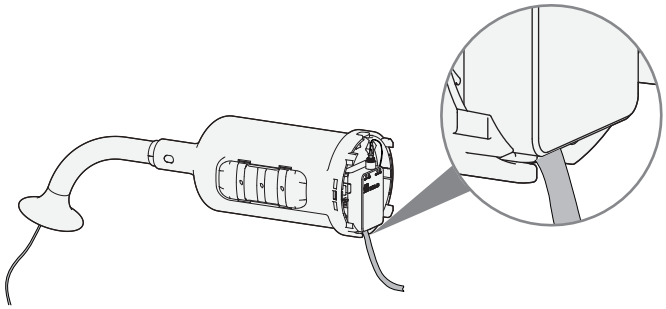


ⓘ Insert the battery into the Opticallink GBD after it is fully charged. Turn on the power switch.

③ Connect the FC connector on the fiber canister's opposite end to the SKY module interface using the same method.

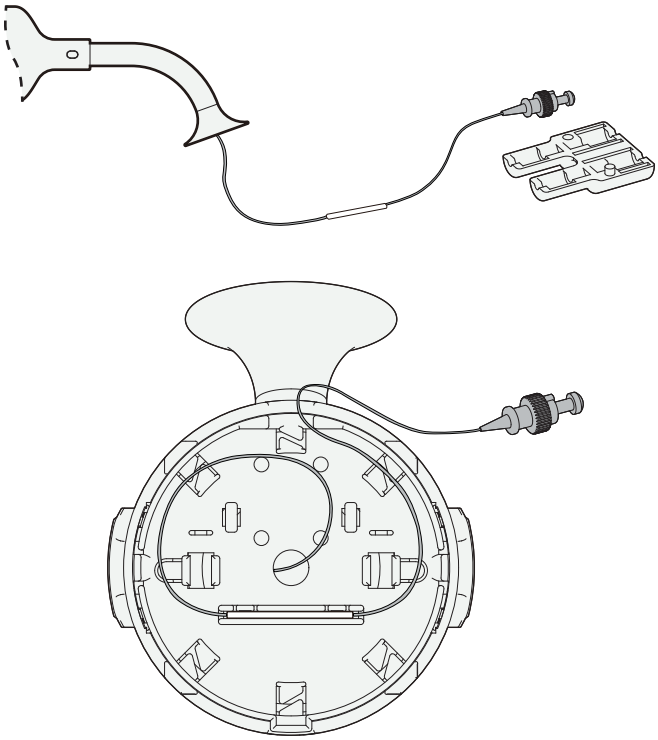


④ The fiber canister is equipped with a wire outlet at the bottom for easy connection to the aircraft equipment.



4. Field Fusion

During fiber layout, if it breaks or is damaged from excessive winding, the damaged section can be cut and the fiber can be restored to normal use through re-splicing.



5. operation precautions

ⓘ **Pay attention to the following precautions before installation, operation and maintenance:**

(1) There shall be no bending, twisting, winding or knotting during the construction process, and the fiber shall be avoided to be cut by sharp objects resulting in fiber breakage.

2) The fiber should avoid contact with moisture, or it may lead to light degradation phenomenon, thus affecting the transmission quality of optical signals.

3) Before using the FC interface, please use a cleaning pen to clean the end port.

(4) Fiber winding with special glue, in the first about 200 meters for the coating area, the flight speed should be controlled within 30km/h or 8m/s.

(5) The maximum flight speed of the aircraft should be controlled within 120km/h.

6) When fixing Opticallink SKY with fiber canister, please make sure the fiber outlet is far away from the drone propeller to prevent entanglement accident.

7) When storing, it should be placed in a cool, dry and light-proof area.

8) The fiber canister is a precision structure, it needs to be handled gently and stored in an upright position.