

100 km/h Fiber Deployment Speed FPV Drone Kit with Anti-Interference

Our Product Introduction

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Basic Information

- Brand Name: FOVA
- Certification: ROHS
- Model Number: FPV DRONE FIBER REEL
- Minimum Order Quantity: 2
- Delivery Time: 30
- Payment Terms: T/T
- Supply Ability: 2000pcs/Mouth

PRODUCT SELECTION

SUPPORTS DIFFERENT FIBER LENGTHS

Utilizes A2 fiber with superior bend resistance
Manufactured with specialized processes
Lightweight and wear-resistant,
with excellent abrasion performance



Product Specification

- APPLICATION SCENARIOS: FPV DRONE
- Light Weight: Specialized Optical Fiber
- Within A Wide Temperature Range: -10°C ~ +80°C
- Long DistanceTransmission: High-Speed DataTransmission
- APPLICATION SCENARIOS 3: UNDERWATER ROBOT COMMUNICATION
- Anti-InterferenceSpecializedOptical Fiber: High Safety
- FIBER DEPLOYMENT SPEED: 100 KM/H (MAX)
- FIBER LENGTHS: 30km

5-30KM FPV DRONE FIBER REEL

FIBER DEPLOYMENT SPEED: 100 KM/H (MAX)

Electromagnetic Interference Resistance

High Bandwidth Transmission

Lightweight Design



More Images

PRODUCT FEATURES



APPLICATION SCENARIOS

FPV DRONE

Wired fiber optic communication technology successfully solves the communication challenges of drone in high-interference environments, enabling long-distance stable communication over 5 km or even 30 km, ensuring stable and secure communication.



Product Description

FPV DRONE FIBER REEL

5-30KM

FIBER DEPLOYMENT SPEED: 100 KM/H (MAX)



- I Electromagnetic Interference Resistance
- I High Bandwidth Transmission
- I Lightweight Design
- I Anti-InterferenceSpecializedOptical Fiber
- I High Safety
- I Light Weight
- I Specialized Optical fiber
- I Long DistanceTransmission
- I High-Speed DataTransmission

PRODUCT OVERVIEW

OS-FDB--XXX AND OS-FDB-E-XXX ARE FIBER OPTIC REELS DESIGNED FOR UAV, FEATURING INTERNAL AND EXTERNAL DEPLOYMENT RESPECTIVELY, OS-FDB-X-XXX SERIES FEATURES HIGH RELIABILITY, STRONG ENVIRONMENTAL ADAPTABILITY, AND HIGH FIBER DEPLOYMENT SPEED.

PRODUCT OVERVIEW

1.High Environmental Adaptability
OS-FDB-|-XXX and OS-FDB-E-XXX series adopt advanced manufacturing processes, capable of withstanding strong impacts and operating reliably in high-vibration environments

2.Within a wide temperature range (-10°C ~ +80°C), stable fiber deployment is ensured.

3.Compact Size & Lightweight
High-precision fiber winding equipment ensures neat fiber arrangement reducing the reel's overall volume and weight.

4.High-quality bend-resistant optical fiber cores compliant with the G657.A2 standard are sourced from top-tier manufacturers such as YOFC, FiberHome, and Zhongzhu. Customized high-strength fiber coatings ensure the fiber reel is lightweight, highly resistant to lateral shear forces, and offers excellent abrasion resistance.

5.Both ends of the product are equipped with customizable high-reliability connectors (FC/PC or FC/APC optional). The non-fusion, integrated molding design ensures low insertion loss and high reliability.

For a 15 km fiber reel, the insertion loss is only 7 dB at 1310 nm and 4 dB at 1550

nm.



PRODUCT SELECTION

SUPPORTS DIFFERENT FIBER LENGTHS

Utilizes A2 fiber with superior bend resistance
Manufactured with specialized processes
Lightweight and wear-resistant
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OUR ADVANTAGES

We adhere to high standards in manufacturing, processes, and quality management systems. The company has built clean rooms compliant with the national "Code for Design of Clean Rooms", optical production and environmental testing centers, complete precision metrology instruments and precision production testing equipment, and owns simulation testing systems, high-low temperature test chambers, vibration and impact test benches, precision optical dividing heads, functional centrifuges, and mechanical testing rooms to escort product quality. At the same time, the company has obtained the "ISO9001 Certification" and "High-Tech Enterprise Certification".



APPLICATION SCENARIOS

FPV DRONE

Wired fiber optic communication technology successfully solves the communication challenges of shortwave drones in high-interference environments. It enables long-distance wired communication over 5 km or even 30 km, ensuring stable and secure communication.



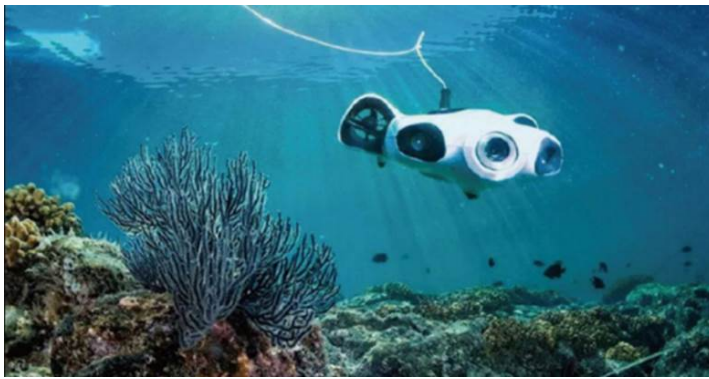
PIPELINE CRAWLING ROBOT COMMUNICATION

The internal structure of urban pipeline networks is complex, and shortwave communication often cannot fully cover all areas. By utilizing fiber optic communication, it enables high-speed and stable data transmission, strong anti-interference capability, low signal loss over long distances, and a lightweight, portable design, significantly improving efficiency and safety in pipeline maintenance.



UNDERWATER ROBOT COMMUNICATION

Fiber optic communication demonstrates significant advantages in underwater robot applications. By transmitting optical signals, it enables high-speed and stable data communication, remaining immune to underwater environmental interference while providing long-distance and high-capacity communication capabilities for underwater robots.



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Product Description:

The FPV Drone Kit is a cutting-edge product designed for specialized applications, including pipeline crawling robot communication. With its advanced features and capabilities, this drone kit is ideal for scenarios that require long-distance transmission, high-speed data transmission, and anti-interference specialized optical fiber technology.

One of the standout features of this FPV Drone Kit is its integrated 48MP camera and thermal sensor, providing users with high-quality imaging and thermal detection capabilities. This allows for precise monitoring and surveillance in a variety of environments.

Moreover, this drone kit supports GPS+GLONASS+BeiDou+Galileo for global coverage, ensuring accurate positioning and navigation capabilities wherever your operations take you. Whether you're conducting missions in remote locations or urban settings, this drone kit offers reliable connectivity and location tracking.

In addition, the FPV Drone Kit is designed for stealthy operation with minimal radar and thermal signature, making it suitable for covert missions and sensitive operations where discretion is key. Its customizable high-reliability connectors, with FC/PC or FC/APC options, ensure secure and stable connections for uninterrupted data transmission.

With a fiber deployment speed of up to 100 km/h, this drone kit is optimized for high-speed missions that require rapid data transmission and real-time communication. The specialized optical fiber technology enhances safety and reliability, allowing users to operate the drone kit with confidence in challenging environments.

Features:

Product Name: FPV Drone Kit -----

FIBER LENGTHS: 30km

Light Weight: Specialized Optical Fiber

FIBER DEPLOYMENT SPEED: 100 KM/H (MAX)

Long Distance Transmission: High-Speed Data Transmission

APPLICATION SCENARIOS 2: PIPELINE CRAWLING ROBOT COMMUNICATION

Applications:

Product Application Occasions and Scenarios for the FOVA FPV Drone Fiber Reel: -----

Brand Name: FOVA

Model Number: FPV DRONE FIBER REEL

Place Of Origin: SHENZHEN

Certification: ROHS

Minimum Order Quantity: 2

Delivery Time: 30

Payment Terms: T/T

Supply Ability: 2000pcs/Month

APPLICATION SCENARIOS 2: PIPELINE CRAWLING ROBOT COMMUNICATION

Within a wide temperature range : -10°C ~ +80°C

Long Distance Transmission: High-Speed Data Transmission

Customizable high-reliability connectors: FC/PC Or FC/APC Optional

Anti-Interference Specialized Optical Fiber: High Safety

Long-Endurance Flight with Max. Time of 47 Minutes

Supports GPS+GLONASS+BeiDou+Galileo for Global Coverage

Hovering Accuracy for Precision Aerial Operations

Support and Services:

Our Product Technical Support team is dedicated to assisting you with any questions or issues you may have regarding your FPV Drone Kit. Whether you need help setting up your equipment, troubleshooting technical problems, or understanding how to use specific features, our knowledgeable staff is here to provide you with expert guidance and solutions.

In addition to technical support, we also offer a range of services to enhance your experience with our FPV Drone Kit. These services may include repair and maintenance options, firmware updates, product customization, and more. Our goal is to ensure that you have a seamless and enjoyable experience with our product, and our support services are designed to help you make the most of your FPV

drone flying experience.

FAQ:

A: The brand name of this FPV Drone Kit is FOVA.

Q: What is the model number of this FPV Drone Kit?

A: The model number of this FPV Drone Kit is FPV DRONE FIBER REEL.

Q: Where is this FPV Drone Kit manufactured?

A: This FPV Drone Kit is manufactured in SHENZHEN.

Q: What certification does this FPV Drone Kit have?

A: This FPV Drone Kit is certified with ROHS.

Q: What are the payment terms for purchasing this FPV Drone Kit?

A: The payment terms for purchasing this FPV Drone Kit are T/T.



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