

Anti-Interference 1FPV Drone Fiber Reel 30KM Range 100KM/H Deployment for High Speed Communication in Wide Temperature Range

Our Product Introduction

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Basic Information

- Place of Origin: SHENZ
- 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



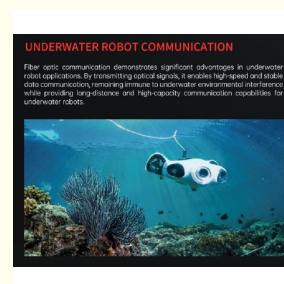
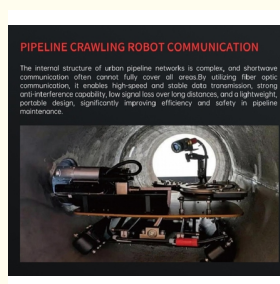
Product Specification

- FIBER DEPLOYMENT SPEED: 100 KM/H (MAX)
- APPLICATION SCENARIOS 2: PIPELINE CRAWLING ROBOT COMMUNICATION
- Long Distance Transmission: High-Speed Data Transmission
- APPLICATION SCENARIOS 3: UNDERWATER ROBOT COMMUNICATION
- FIBER LENGTHS: 30km
- Within A Wide Temperature Range: -10°C ~ +80°C
- Light Weight: Specialized Optical Fiber
- APPLICATION SCENARIOS: FPV DRONE

PRODUCT FEATURES



More Images



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-Interference Specialized Optical Fiber
- I High Safety
- I Light Weight
- I Specialized Optical fiber
- I Long Distance Transmission
- I High-Speed Data Transmission

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-I-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

with excellent abrasion performance



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.



Product Description:

The FPV Drone Kit is a cutting-edge solution designed for a variety of specialized applications, including underwater robot communication and pipeline crawling robot communication. This versatile kit is equipped with advanced features to meet the demanding requirements of these scenarios.

For underwater robot communication, the FPV Drone Kit offers a unique advantage with its light weight design and specialized optical fiber technology. The kit includes optical fiber lengths of up to 30km, ensuring reliable and efficient communication for underwater operations. This makes it an ideal choice for applications that require long-distance communication in underwater environments.

Additionally, the FPV Drone Kit is also well-suited for pipeline crawling robot communication. It features long-distance transmission capabilities, enabling high-speed data transmission over extended distances. This is essential for maintaining seamless communication between the drone and the pipeline crawling robot, ensuring effective coordination and operation.

Moreover, the FPV Drone Kit supports GPS+GLONASS+BeiDou+Galileo for global coverage, allowing for precise navigation and location tracking in various environments. This feature enhances the drone's capabilities for conducting missions across different regions, ensuring accurate and reliable performance.

Furthermore, the FPV Drone Kit is equipped with an advanced thermal imaging drone for night & low-light missions. This technology enables the drone to capture thermal images in challenging lighting conditions, providing valuable insights and enhancing situational awareness during night operations.

In addition, the kit features a high-resolution long focus camera for detailed surveillance, allowing users to capture clear and detailed images for surveillance and monitoring purposes. This camera provides enhanced visibility and clarity, making it a valuable asset for conducting surveillance missions with precision and accuracy.

Features:

Product Name: FPV Drone Kit

Anti-Interference Specialized Optical Fiber: High Safety

FIBER DEPLOYMENT SPEED: 100 KM/H (MAX)

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

FIBER LENGTHS: 30km

Light Weight: Specialized Optical Fiber

Applications:

The FOVA FPV DRONE FIBER REEL is a cutting-edge product that caters to a wide range of Product Application Occasions and Scenarios due to its advanced features and capabilities.

Integrated with an anti-interference specialized optical fiber, this drone kit ensures high safety and reliability even in challenging environments. The use of specialized optical fiber also makes it light weight, allowing for agile and efficient aerial operations.

With customizable high-reliability connectors such as FC/PC or FC/APC optional, the FPV drone kit offers versatility and adaptability to suit different needs and preferences.

The FOVA FPV DRONE FIBER REEL excels in various scenarios such as Precision Aerial Operations thanks to its hovering accuracy feature. This ensures precise and stable flight, making it ideal for applications that require detailed and accurate aerial data collection.

Moreover, the drone kit's integrated 48MP camera & thermal sensor provide users with high-quality imaging capabilities, making it suitable for tasks that demand detailed visual information and thermal analysis.

Its stealthy operation with minimal radar & thermal signature further enhances its applicability in scenarios where discreet and undetectable aerial surveillance is required.

Whether it's monitoring large areas, conducting inspections, or capturing stunning aerial footage, the FOVA FPV DRONE FIBER REEL offers exceptional performance and reliability. Its wide temperature range of -10°C to +80°C ensures operability in diverse environmental conditions.

Manufactured in SHENZHEN and certified with ROHS, this drone kit guarantees quality and compliance with international standards.

With a minimum order quantity of 2 and a delivery time of 30, customers can quickly acquire this innovative product for their specific needs.

Payment terms of T/T and a supply ability of 2000pcs per month make it convenient for businesses to procure the FOVA FPV DRONE FIBER REEL for their operations.

In conclusion, the FOVA FPV DRONE FIBER REEL is a versatile and reliable product that caters to a wide range of Product Application Occasions and Scenarios, offering exceptional performance and features for various aerial tasks.

Support and Services:

The FPV Drone Kit product comes with comprehensive Product Technical Support and Services to assist customers. Our team is dedicated to providing troubleshooting guidance, product information, and technical assistance to ensure a smooth and enjoyable flying experience with your drone. Whether you have questions about assembly, operation, or troubleshooting, our support team is here to help. Additionally, we offer maintenance services, repair options, and firmware updates to keep your drone in top condition. Our goal is to

provide excellent support and services to enhance your FPV drone flying experience.

FAQ:

Q: What is the brand name of this FPV Drone Kit?

A: The brand name is FOVA.

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

A: The model number is FPV DRONE FIBER REEL.

Q: Where is this FPV Drone Kit manufactured?

A: It is manufactured in SHENZHEN.

Q: Does this FPV Drone Kit come with any certification?

A: Yes, it is certified with ROHS.

Q: What is the minimum order quantity for this FPV Drone Kit?

A: The minimum order quantity is 2.



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