Ultra-Long-Distance Communication Equipment: Ensuring Reliable Transmission Over 100 Km For Maritime Security Emergencies

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DT-04
- Minimum Order Quantity: 1
- Price: Pricing is negotiable based on order quantity
- Delivery Time: 10 work days
- Payment Terms: L/C,T/T
- Supply Ability: 1000units per month

Product Specification

- Land Communication: ≥150 Km
- Coast Communication: ≥400 Km
- Maritime Communication: ≥200 Km
- Mountainous Area Communication: ≥80 Km
- Output Power: 50w
- Product Type: Ultra-short Wave Over-the-horizon Communication Equipment
- Highlight: **handheld drone detector long-distance communication**, **maritime security emergency drone detector**, **100 km range drone detector**

Product Description

DT-04 Ultra-Long-Distance Communication Equipment

1, Product Overview

The DT-04 series of ultra-long-distance communication equipment stands as the latest accomplishment in contemporary wireless communication technology. It employs advanced ultra-short wave beyond-line-of-sight communication technology, thereby thoroughly altering people's perception of traditional communication equipment. This equipment is not merely a simple communication tool; rather, it is a sophisticated system that integrates a multitude of cutting-edge technologies. It is capable of maintaining stable and dependable communication connections under various extreme circumstances.

The design concept of the DT-04 is derived from an in-depth comprehension of the actual requirements of professional users. Throughout the design process, the R & D team comprehensively considered the communication characteristics in diverse industries and scenarios, and regarded reliability, stability, and user-friendliness as the core elements of product design. Whether in the rough seas with strong winds and large waves or in the rugged mountainous regions, the DT-04 can offer users clear and stable communication services.

2, Specification

Category	Parameter	Specification
Basic Parameters	Product Type	Ultra-short Wave Over-the-horizon Communication Equipment
	Output Power	50W
	Operating Mode	Frequency Modulation (FM)
	Frequency Range	30-88MHz (VHF Ultra-short Wave)
Communication Range	Land Communication	≥150 km
	Mountainous Area Communication	≥80 km
	Maritime Communication	≥200 km
	Coast Communication	≥400 km
Physical Characteristics	Weight (Main Unit)	Approximately 5.5kg
	Operating Temperature	-30°C to +60°C
	Protection Rating	IP65
Power Requirements	Operating Voltage	13.8V DC ±15%
	Operating Current	≤25A (Transmitting), ≤1.5A (Receiving)
	Standby Current	≤0.5A

3, Features

DT-04 incorporates advanced beyond-line-of-sight communication technology. This technology effectively overcomes the limitations of traditional line-of-sight communication, enabling signals to achieve long-distance transmission via means such as ionospheric reflection. Leveraging this technology, DT-04 can maintain stable communication connections within complex environments including oceans and mountainous regions. The device is outfitted with an intelligent adaptive power control system, which is capable of automatically adjusting the transmission power in accordance with the communication distance and environmental conditions. This not only optimizes the device's energy consumption but also guarantees the optimal communication quality across different distances.

DT-04 has successfully undergone rigorous environmental adaptability tests and is capable of operating normally under diverse terrain conditions, including oceans, land, and mountains. Whether in high-humidity marine environments or arid and dusty desert areas, the device can maintain stable performance. The operating temperature range of the device spans from -30°C to +60°C, enabling it to adapt to a wide spectrum of climate conditions, from extreme cold to extreme heat. The IP65 protection rating ensures that the device can function normally in inclement weather such as heavy rain and sandstorms. DT-04 utilizes advanced signal processing technology and anti-interference algorithms, enabling it to effectively withstand various electromagnetic interferences. Whether in urban settings with a high density of electronic equipment or industrial sites characterized by strong electromagnetic interference, the device can uphold clear and stable communication quality.

DT-04 is designed and manufactured in strict compliance with military communication equipment standards, and each component has undergone stringent quality inspections. The design lifespan of the device exceeds 10 years, and the mean time between failures (MTBF) surpasses 5000 hours. The key components of the device feature a redundant design, ensuring that the system can still maintain basic communication functions in the event of a single component failure. This design significantly enhances the overall reliability and availability of the device. Prior to product launch, DT-04 has undergone comprehensive testing and verification, encompassing environmental adaptability testing, electromagnetic compatibility testing, and reliability testing. These rigorous tests guarantee that the device can operate normally under a variety of extreme conditions.

DT-04 adheres to a user-friendly operation interface design, with a rational and clear layout of various function buttons and indicator lights. Even in emergency situations, users can execute various operations swiftly and accurately. The device is

equipped with multiple one-key operation functions, such as one-key emergency call and one-key channel switching. These functions considerably streamline the operation process and enhance work efficiency. DT-04 is equipped with an intelligent channel scanning and selection function, which can automatically search for and select the optimal communication channel. This function is of particular importance in complex electromagnetic environments, ensuring that users consistently obtain the best communication quality. The device is furnished with a comprehensive status monitoring system, which can display various working parameters in real-time, such as transmission power, received signal strength, and battery level. Users can check the working status of the device at any time via the display screen and promptly identify and address various issues.

DT-04 supports multiple encryption algorithms, including international standard encryption algorithms such as AES-256 and DES. These encryption technologies safeguard the security of communication content and prevent information leakage and eavesdropping. The device is equipped with a dedicated emergency call button. In case of an emergency, users can send a distress signal with a single key. The emergency call signal holds the highest priority, ensuring its timely conveyance under all circumstances. DT-04 incorporates a built-in GPS positioning module, which can acquire the device's position information in real-time. This function is of great significance in scenarios such as rescue operations and field operations, facilitating the command center's accurate grasp of the positions of personnel and equipment.

DT-04 supports the formation of a communication network among multiple devices and can achieve various communication modes, such as point-to-point and point-to-multipoint. This flexible networking approach enables the device to adapt to communication requirements of varying scales and complexities. The device supports the relay mode, and the communication coverage can be extended by establishing relay stations. This function is particularly crucial in scenarios demanding large-area coverage, as it can significantly enhance the coverage capacity of the communication network. In addition to voice communication, DT-04 also supports data transmission functions, enabling the transmission of text information, location data, and status information. This function provides users with a wider range of communication options and caters to the needs of different application scenarios.

4, Application Scenarios

5, Certification Certificate

6, Company profile

Chongqing Miao Yitang Technology Co., Ltd. is a specialized company engaged in anti-drone and unmanned intelligent defense management.

With the technical support from the AI Internet of Things Research Institute of the Chinese Academy of Sciences and collaborations with multiple intelligent AI companies, the company has established research laboratories for AI unmanned field products, accumulating a variety of technical patents.

The company's products are widely applied to unmanned automatic management solutions for various defense and perimeter areas, including AI anti-drone systems and AI unmanned vehicle patrol systems. These systems integrate with multiple technologies such as optoelectronics, radar, vibration, thermal imaging, facial recognition, and radio frequency management, truly achieving a 24-hour uninterrupted anti-drone defense and ground perimeter defense warning system. This allows for cost savings for clients, reduction in human resource allocation, and

ensures the safety of clients' lives and property. The outstanding security system has won the company an excellent reputation and created higher value for its partners.

7, Customer Service

1). We offer 24 hours service after sales
2). If there are any usage or quality issues with the product, we provide online technical support to diagnose the cause of the problem.
3). Should you find the products unsatisfactory, kindly return it to us within a period of 3 months from the date of dispatch. Upon receipt and inspection, should the products be found to be free from any damage attributable to human factors, a full refund will be granted. Alternatively, we can engage in discussions to amend the product and subsequently reship the product to you.

Chongqing Miao Yi Tang Technology Co., Ltd.

+8613101235550 gary@chinaantidrone.com chinaantidrone.com

www.chinaantidrone.com