Ultra-Long-Distance Communication Equipment

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 with long-range**, **ultra-long-distance drone communication equipment** , **portable drone detector for remote areas**

Product Description

DT-04 Ultra-Long-Distance Communication Equipment

1, Product Overview

The DT-04 series of ultra-long-distance communication equipment represents the latest achievement in current wireless communication technology. It adopts advanced ultra-short wave beyond-line-of-sight communication technology, completely changing people's perception of traditional communication equipment. This device is not just a simple communication tool, but a complex system integrating a variety of cutting-edge technologies, capable of maintaining stable and reliable communication connections in various extreme environments.

The design concept of DT-04 stems from an in-depth understanding of the actual needs of professional users. During the design process, the R&D team fully considered the communication characteristics in different industries and scenarios, and took reliability, stability and ease of use as the core elements of product design. Whether on the rough seas with strong winds and huge waves, or in the rugged mountainous areas, DT-04 can provide users with 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 adopts advanced beyond-line-of-sight communication technology, which breaks through the limitations of traditional line-of-sight communication, enabling signals to achieve long-distance transmission through methods such as ionospheric reflection. The application of this technology allows DT-04 to maintain stable communication connections in complex environments such as oceans and mountainous areas. The device is equipped with an intelligent adaptive power control system, which can automatically adjust the transmission power according to the communication distance and environmental conditions. This not only optimizes the energy consumption of the device but also ensures the best communication quality at different distances.

DT-04 has undergone rigorous environmental adaptability tests and can work normally in various terrain conditions such as oceans, land, and mountains. Whether in high-humidity marine environments or dry and dusty desert areas, the device can maintain stable performance. The operating temperature range of the device is -30°C to +60°C, which can adapt to various climate conditions from extreme cold to extreme heat. The IP65 protection rating ensures that the device can work normally in harsh weather such as heavy rain and sandstorms. DT-04 adopts advanced signal processing technology and anti-interference algorithms, which can effectively resist various electromagnetic interferences. Whether in urban environments with dense electronic equipment or industrial sites with strong electromagnetic interference, the device can maintain clear and stable communication quality.

DT-04 is designed and manufactured in strict accordance with military communication equipment standards, and each component has undergone rigorous quality inspection. The design life of the device exceeds 10 years, and the mean time between failures (MTBF) exceeds 5000 hours. The key components of the device adopt a redundant design to ensure that the system can still maintain basic communication functions when a single component fails. This design greatly improves the overall reliability and availability of the device. Before the product is launched, DT-04 has undergone comprehensive testing and verification, including environmental adaptability testing, electromagnetic compatibility testing, and reliability testing. These strict tests ensure that the device can work normally under various extreme conditions.

DT-04 adopts a user-friendly operation interface design, with a reasonable and clear layout of various function buttons and indicator lights. Even in emergency situations, users can perform various operations quickly 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 greatly simplify the operation process and improve work efficiency. DT-04 has an intelligent channel scanning and

selection function, which can automatically search for and select the best communication channel. This function is particularly important in complex electromagnetic environments, ensuring that users always get the best communication quality. The device is equipped with a complete 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 through the display screen and find and deal with various problems in a timely manner.

DT-04 supports multiple encryption algorithms, including international standard encryption algorithms such as AES-256 and DES. These encryption technologies ensure 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 one key. The emergency call signal has the highest priority, ensuring that it can be conveyed in time under any circumstances. DT-04 has a built-in GPS positioning module, which can obtain the position information of the device in real-time. This function is of great significance in scenarios such as rescue operations and field operations, helping the command center accurately grasp the positions of personnel and equipment.

DT-04 supports multiple devices to form a communication network, and can realize various communication modes such as point-to-point and point-to-multipoint. This flexible networking method enables the device to adapt to communication needs of different scales and complexities. The device supports relay mode, and the communication coverage can be expanded by setting up relay stations. This function is particularly important in scenarios that require large-area coverage, which can greatly improve the coverage capability of the communication network. In addition to voice communication, DT-04 also supports data transmission functions, which can transmit text information, location data, and status information. This function provides users with more communication options and meets 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.

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