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企业简介

COMPANY PROFILE

Overview of the company

The company is a research and production enterprise that focuses on the integration of high-tech camouflage and protective materials with military, police, and civilian industries, integrating production, research, and sales. The company uses new coatings as the technological foundation to build a "four in one" camouflage and protection product matrix that integrates individual soldiers, vehicles, equipment, and devices. There are four products including heat-resistant infrared reconnaissance camouflage clothing, heat-resistant infrared trench camouflage net, full band camouflage net, and signal shielding luggage. The related products have been successfully applied in units such as the army, air force, navy, and public security, contributing to high-quality development in serving the modernization of military and police technology.

Focus on the field

It focuses on the research and development and production of new materials in multiple fields of the military, police and civilian, covering the three major sectors of national defense, public security and civil use to meet diversified needs. Adhere to innovation-driven, use high-performance materials to help upgrade in various fields, and promote the integration and development of the industry.

Corporate mission

Protect the future of security with innovative material science and technology, and provide a solid guarantee for national defense security, social security stability and civil industry upgrading. Through continuous research and development, we will break through technical bottlenecks and create a new material brand with international competitiveness.

Core values

Actual combat : Starting from actual combat, improve the safety of customer life and equipment with high-quality products.

Innovation: Pursue technological breakthroughs and constantly explore new material application boundaries.

Innovation: Pursue technological breakthroughs and constantly explore new material application boundaries.

Responsibility: Escort the construction of a strong army with science and technology, and protect the country by industry.

Core strengths

CORE COMPETITIVE ADVANTAGE

Technical barriers

We have submitted 5 patent applications and possess 5 exclusive formulas, with solid technical barriers ensuring our dominant position in market competition. Our patent achievements cover multiple aspects such as material research and development, production processes, etc., providing solid support for the company's development.

Application Authentication

The product has been implemented and applied in multiple military and police units, ensuring its quality and meeting both international and domestic high standards. A rigorous quality management system guarantees full control over the product from research and development to production, earning the trust of our customers.

INDUSTRY-UNIVERSITY-RESEARCH

Technical team

Team composition: The R&D team is led by doctors, masters, and industry experts, boasting a strong professional background spanning multiple fields such as materials science and chemistry.

Technical guidance: The expert team provides professional guidance for R&D work, ensuring the correct technical direction and overcoming technical difficulties.

Product and application scenarios



Individual anti heat infrared reconnaissance camouflage suit (LF-WZF)

The camouflage suit is mainly composed of a heat dissipation layer and grass leaf (or leaf shaped) camouflage decorative materials. According to the battlefield environment, it is divided into three major product color schemes: desert, snow, and forest. It provides two types of camouflage clothing: cape style and split style.

Single Soldier Thermal Infrared Trench Camouflage Net (LF-DWZ)

Using self-developed camouflage special coating cloth, flame retardant, color in accordance with GJB1082 requirements, color fastness and other mechanical and physical properties in accordance with GJB7927 requirements, it can resist infrared thermal imaging reconnaissance using a new principle and integrate with environmental temperature.

Lufeng full-band camouflage net (LF-CN-MUL)

Made from self-developed new camouflage coatings and specific materials, it features a combined protection against radar, infrared, and hyperspectral detection. Its basic performance meets the requirements of the General Specification for Camouflage Nets (GJB7927-2012), and its technologies such as radar absorption design demonstrate progressiveness.

Signal shielding box/bag

It possesses a passive electromagnetic shielding function and can be widely applied in daily troop management, field training, exercises, and combat operations. Compared to the commonly used signal jammers, it offers advantages such as portability, flexibility, and no need for a power source.

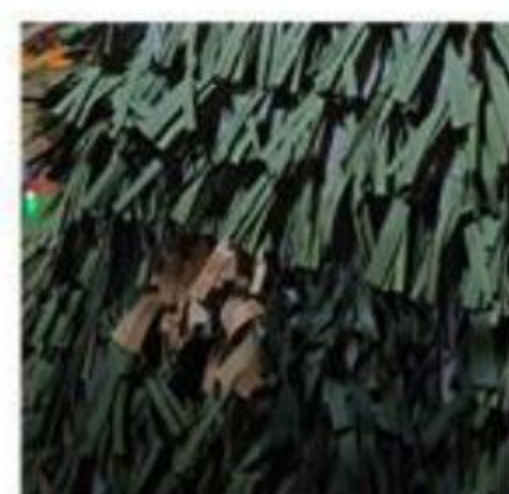
Camouflage clothing for anti-thermal infrared detection

Product Name: Heat-resistant Infrared Reconnaissance

Camouflage Clothing Product Model: LF-WZF

This type of camouflage clothing is primarily composed of specialized camouflage materials resembling grass leaves. Based on the battlefield environment, it is categorized into three major product color schemes: desert, snowfield, and forest. It is available in two designs: a split-type and a cloak-type.

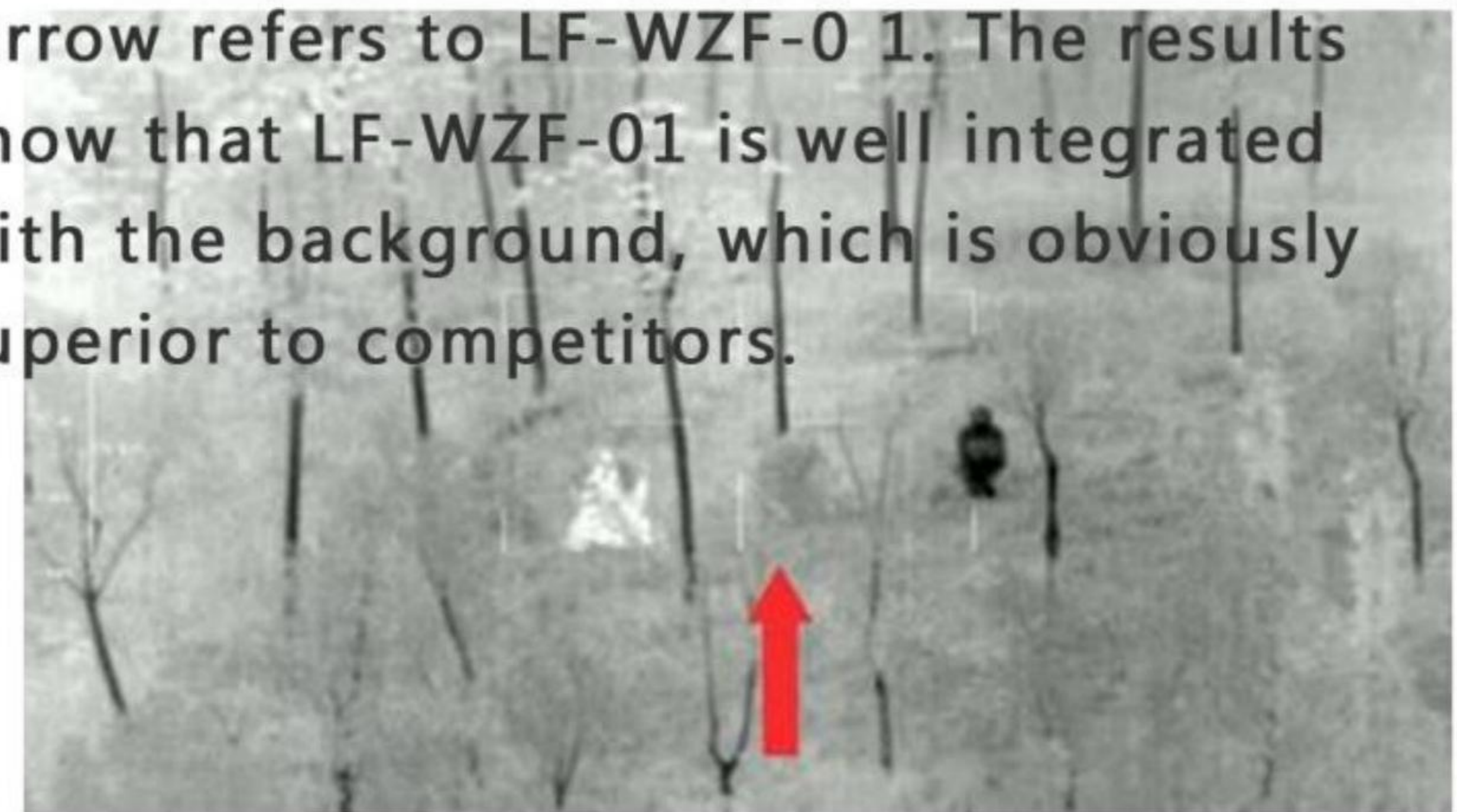
This product can effectively counteract optical infrared thermal imaging surveillance, solving the concealment and camouflage challenges faced by soldiers. Compared to pure insulation camouflage clothing and phase change thermal storage camouflage clothing, this product boasts excellent breathability and heat dissipation, ensuring comfortable wear. It possesses prominent characteristics such as full-time environmental integration, effective counteraction against thermal imaging surveillance during prolonged concealment, and effective concealment in all testing modes.

**Desert type****LF-WZF-01****Snow type****LF-WZF-02****Woodland type****LF-WZF-03**

Comparison organized by a scientific research institution

The LF-type jungle camouflage suit is compared with other camouflage suits purchased by the unit. The drone-borne photoelectric pod is used for testing:

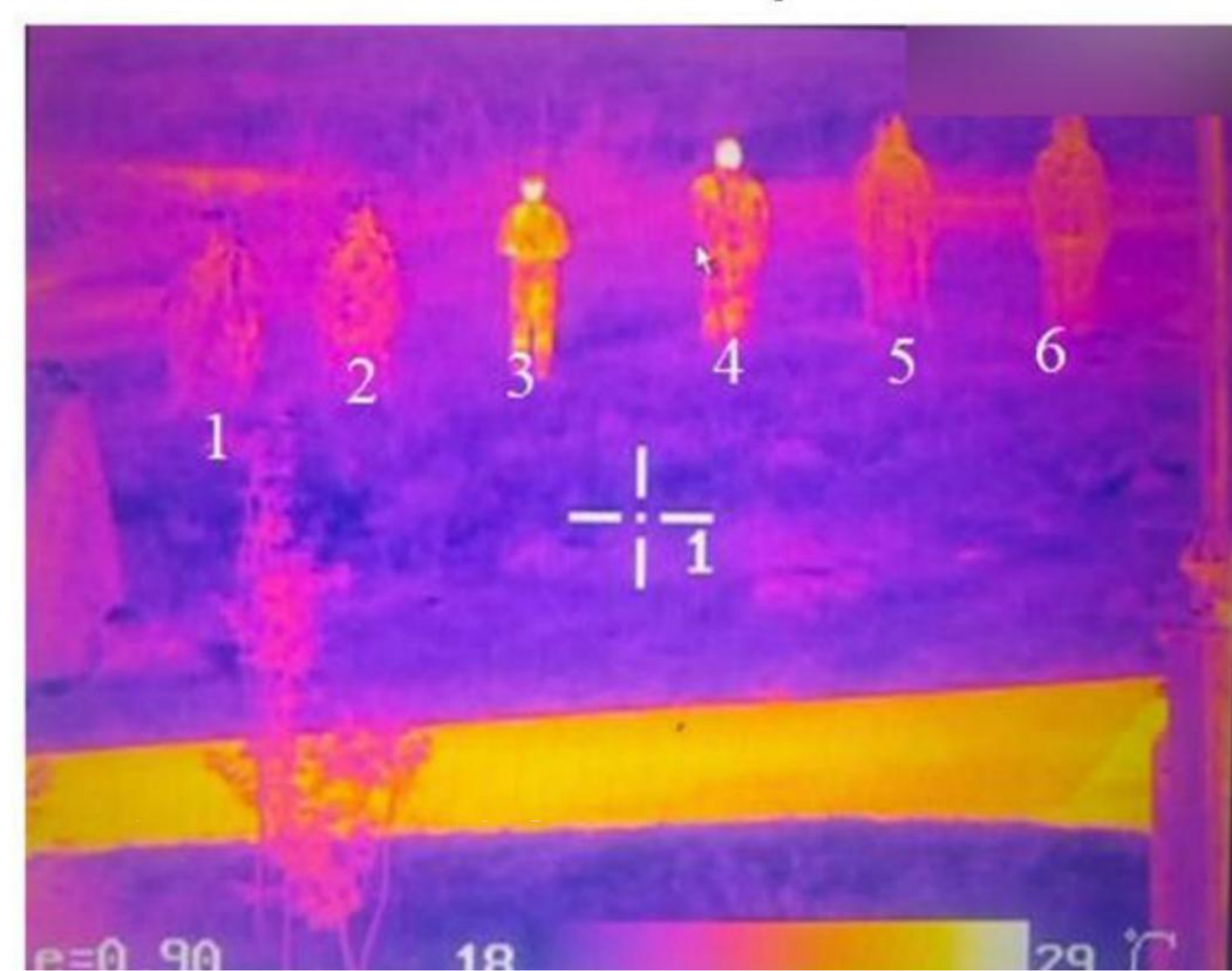
- 1) The test distance, 50~100m;
- 2) The test personnel wear 3 kinds of camouflage clothes and image in the same field of view, and the middle position is LF-WZF-01;
- 3) The thermal imaging photos taken in the test are as follows, of which the red arrow refers to LF-WZF-01. The results show that LF-WZF-01 is well integrated with the background, which is obviously superior to competitors.



Comparison of a certain unit

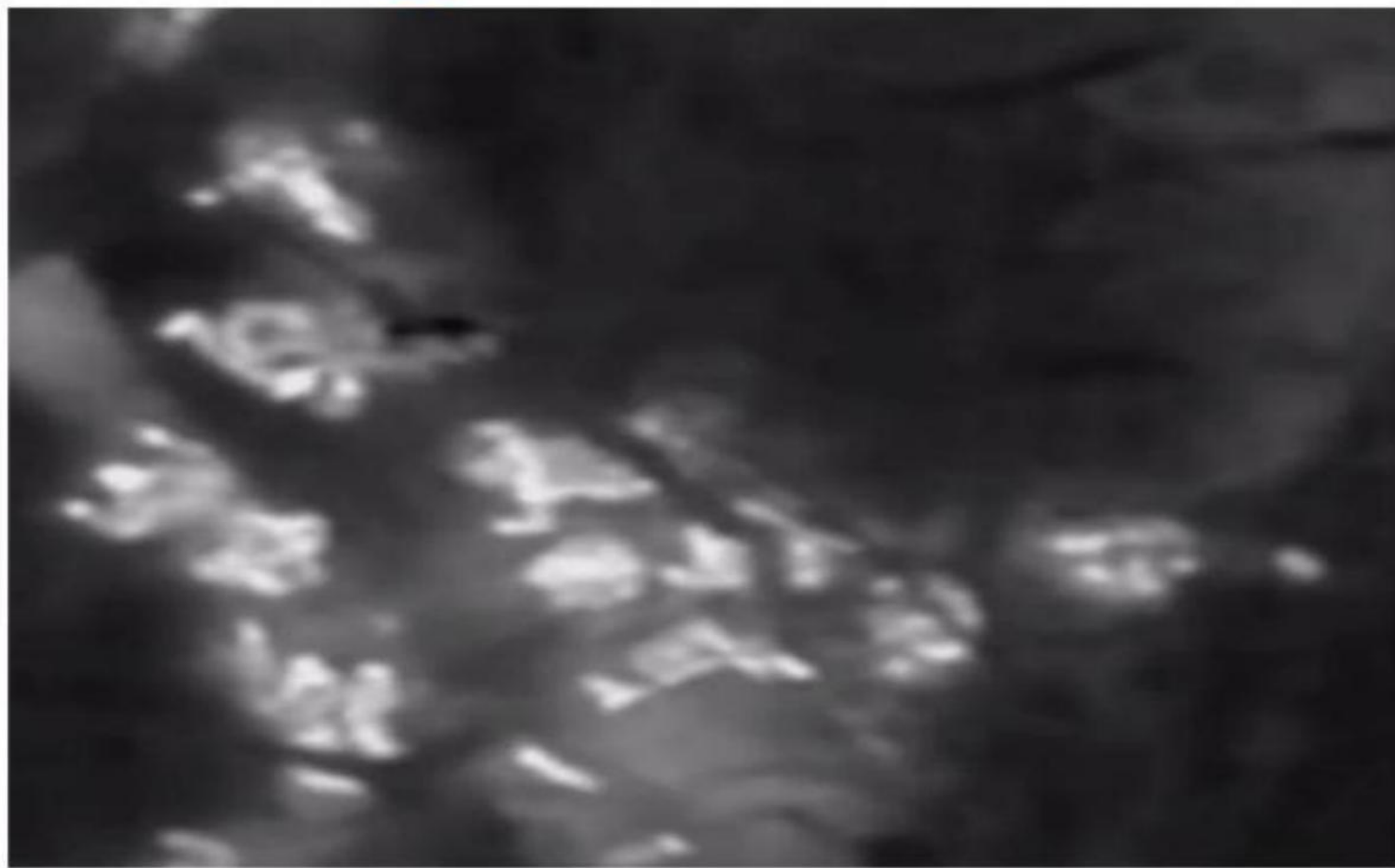
In September 2025, a certain type of reconnaissance radar was used in a unit, and the camouflage performance was compared with close-up imaging. The results are shown in Figure 3, of which the sample is:

- 1) No. 1 and No. 2 are cloak-style LF-WZF-01 camouflage suits;
- 2) No. 3 are ordinary camouflage suits;
- 3) No. 4 is the existing camouflage suit of the troops; 4) No. 5 and No. 6 are split-body LF-WZF-03 camouflage suits. As a result of the comparison, the reconnaissance effect of LF camouflage suit against infrared thermal imager is obvious, which is better than that of competitors.



Performance of active individual combat uniforms

The infrared effect of camouflage clothing refers to its ability to reduce target detectability in the infrared band (including near-infrared and thermal infrared), and is a key indicator of modern military camouflage technology.



Drone field of view

Under drone reconnaissance,
there are all highlights

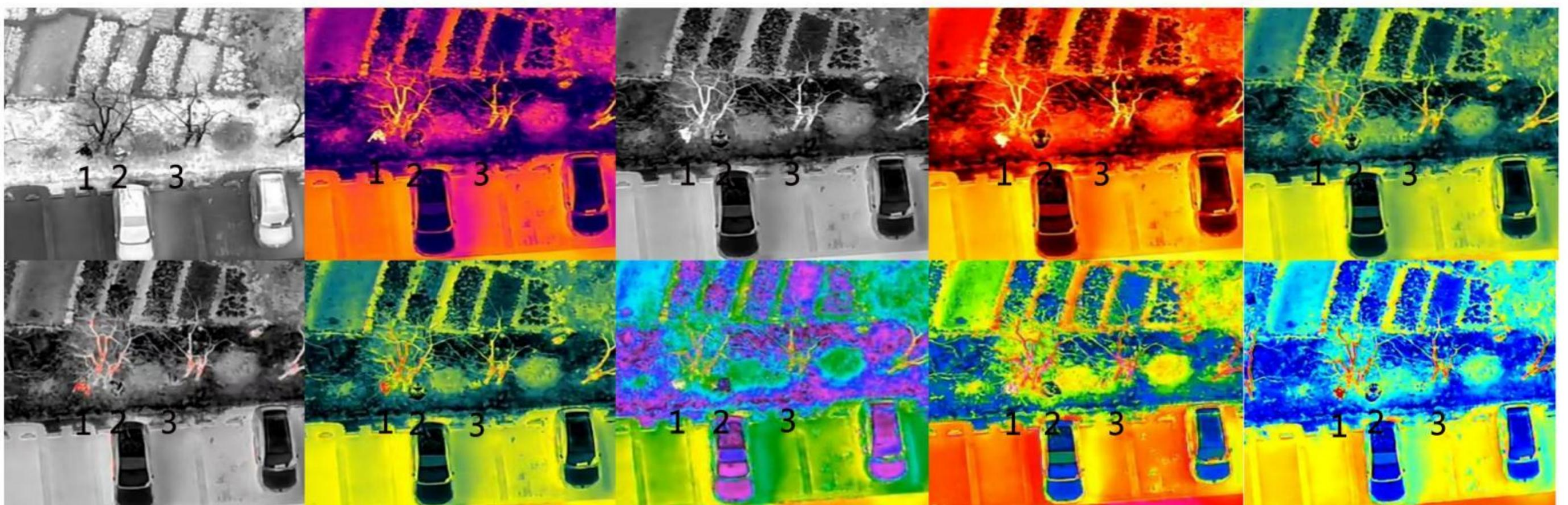
Currently, individual camouflage fabrics have not been designed with infrared stealth performance



Wearing complex clothing makes it inconvenient for individual combat operations. The background is easily exposed, and the infrared stealth function is similar to that of humanoid targets.

Active Geely clothing optical and infrared imaging

The strategy adopted by Lufeng for infrared prevention in individual combat is to shield target radiation while reflecting surrounding background radiation. During thermal imaging equipment reconnaissance, it can achieve consistent imaging with natural environmental structures such as shrubs, grasslands, and sand and stones, thus integrating with the background in all directions and integrating with the environment as a whole. Currently, Lufeng's individual combat camouflage suit can camouflage in 10 infrared modes across the radar and drone bands, effectively avoiding the safety protection drawbacks of camouflage in individual combat. (The following picture shows a comparison between wearing a camouflage suit of a certain product and not wearing a camouflage suit from the perspective of a drone.)



Number 1 is not wearing camouflage clothing

Number 2 is a camouflage clothing product from a certain company

Number 3 is the Lu Feng camouflage suit

Drone's perspective

Comparison of products of the same type

Comparison project	Ordinary camouflage clothes on the market	Anti-thermal imaging camouflage suits on the market	Lufeng camouflage suit	Remarks
Anti-thermal infrared imaging detection ability	Can't resist thermal imager detection	The effect of using isolated materials is not ideal, and a new heat source is formed for a long time.	The new long red tear instrument combines with the environment, which has excellent anti-external anti-thermal imaging effect regardless of the short latency time.	Solve the pain point of camouflage suit, and Lufeng's performance is leading.
Performance of decorative materials	Use traditional dyed soft ropes, cloth strips, etc.	Ordinary layer, only limited heat insulation	Adopt self-developed camouflage special coated layer cloth, flame-retardant, color meets the requirements of GJB1082, and mechanical physical properties such as color fastness meet the requirements of GJB7927.	Lufeng uses professional camouflage materials.

Durability test report and troop trial report

MA

240014340170

化学工业合成材料老化质量监督检验中心

The Quality Supervision and Inspection Center of Synthetic Material Ageing of Chemical Industry

ilac-MRA

中国合格评定

CNAS

中国认可 国际互认 检测 TESTING CNAS L1135

检测报告 Test Report

No. TL25080349

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样品名称 Name of Sample	伪装服用涂层布	样品编号 Sample Number	T25080103
委托单位 Client		检测类别 Classification of Test	委托检测
生产单位 Manufacturing		生产批号 Batch Number	----
送样日期 Sampling Date	2025年8月11日	生产日期 Production Date	----
检测日期 Test Date	2025年8月19日	型号/商标 Type/Trademark	----/----
样品数量 Sample Numbers	1 批涂层布料	合同编号 Contract Number	T25080103
检测项目 Test Item	见检测项目及结果页	样品描述及说明 Description and Explanation of Sample	涂层布料, 完好
检测依据 Test Method	GB/T 3920-2008 《纺织品 色牢度试验 耐摩擦色牢度》 该样品按照GB/T 3920-2008 《纺织品 色牢度试验 耐摩擦色牢度》进行检测, 所检项目检测结果符合委托方提供的指标要求。		
检测结论 Result	(检测专用章) 签发日期: 2025年8月20日 检验检测专用章		
备注 Remark			

批准: 李欣

审核: 范星

主检: 谭卓华

防热红外侦察伪装吉利服试用报告

自 LF-WZF-01 型防热红外侦察伪装吉利服定型后, 在我部组织了该产品的实测试用试验, 经过试用测试实现了该产品有效对抗红外、光学、热成像仪等侦察手段, 有效提升了红外热成像测试下的伪装效果。

一、防热红外侦察伪装吉利服穿着测试

LF-WZF-01 型防热红外侦察伪装吉利服在结构形式上, 采用了斗篷式、分体式两种伪装服, 穿戴快速便捷, 满足战术动作的延展需求。

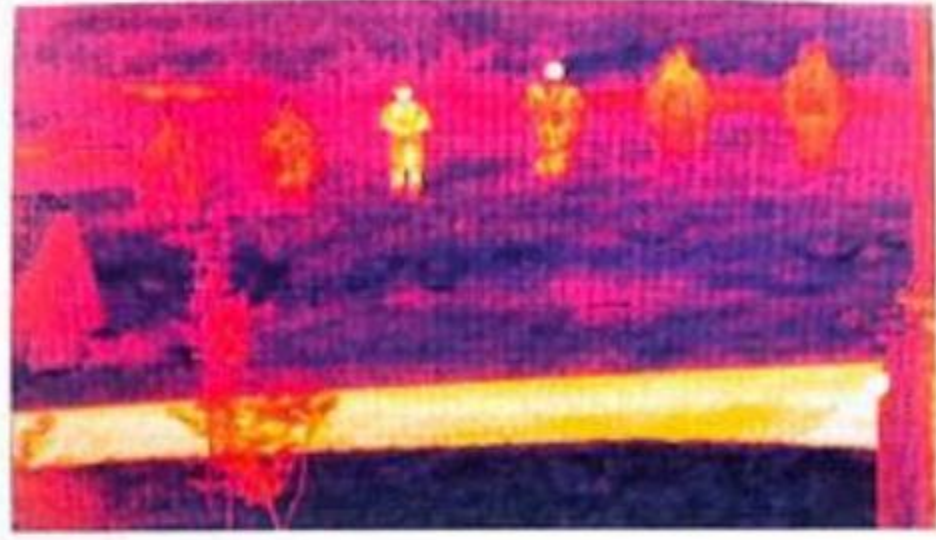
二、防热红外侦察伪装吉利服实景应用测试

LF-WZF-01 型防热红外侦察伪装吉利服结合战场环境需求, 适应丛林、沙漠、雪地等场景, 伪装效果显著, 能够有效对抗红外、光学、热成像仪等侦察手段。

三、防热红外侦察伪装吉利服性能测试

LF-WZF-01 型防热红外侦察伪装吉利服在北保定开展红外热成像测试, 2.6 名参训人员穿着 LF-WZF-01 型防热红外侦察伪装吉利服, 右侧为红外热成像测试结果。

3.测试拍摄的热成像照片如下:



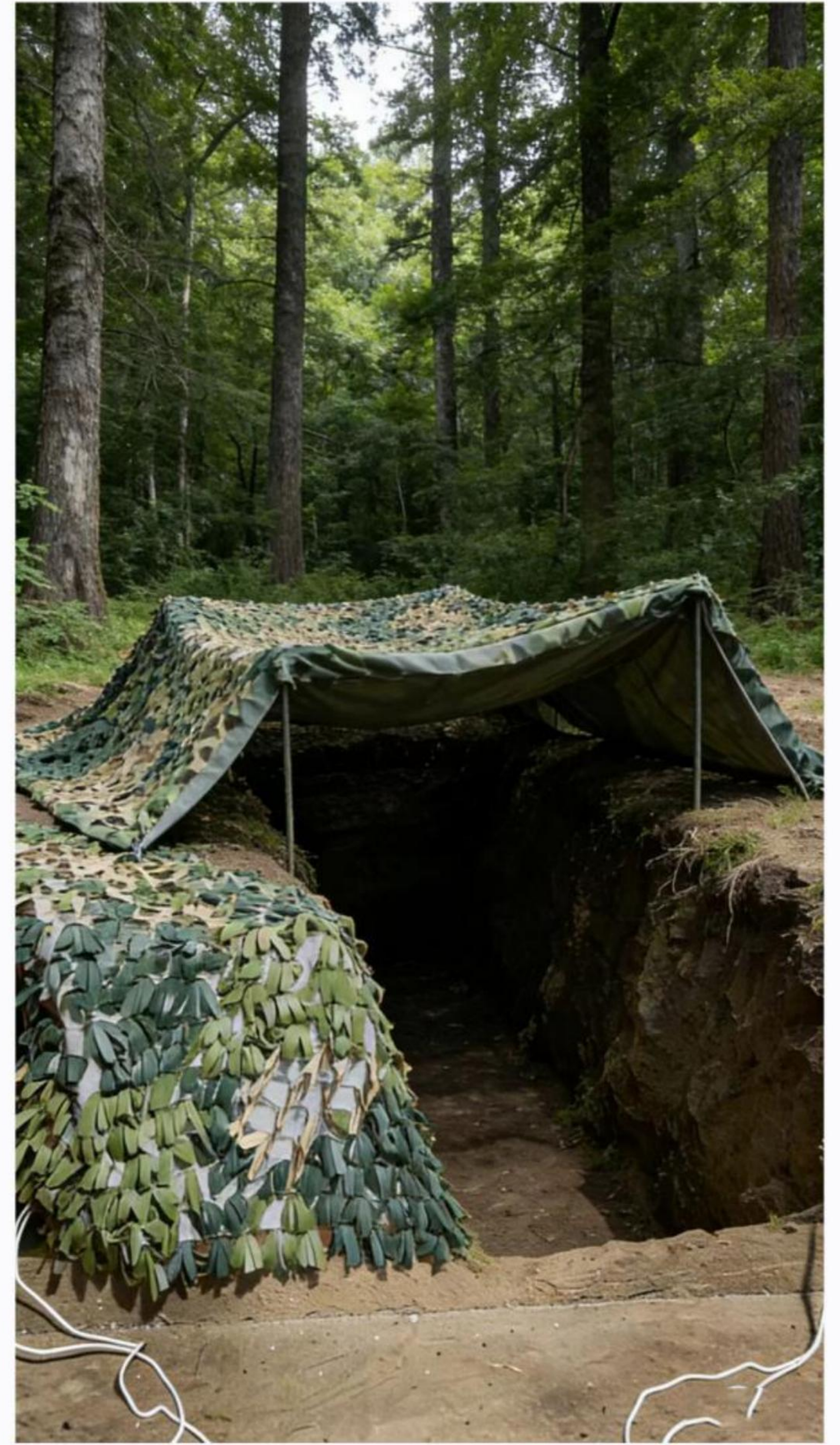
LF-WZF-01 型防热红外侦察伪装吉利服通用性较强, 伪装效果明显, 长时间穿着仍可抑制热特征, 能适应各种战术场景的伪装需求, 有效提升隐蔽伪装效果。

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Individual anti heat infrared trench camouflage net

This model is mainly composed of grass leaf shaped camouflage materials.

According to the battlefield environment, it is divided into three major product color schemes: desert, snow, and forest. This product can effectively counter the reconnaissance of optical infrared thermal imagers such as drones and radars, solving the problem of soldiers' concealment and camouflage. It has the outstanding feature of being integrated into the environment for a long time and still effectively resisting thermal imaging reconnaissance, and all mode tests are effectively concealed.



Forest type

Using self-developed camouflage special coating cloth, flame retardant, color in accordance with GJB1082 requirements, color fastness and other mechanical and physical properties in accordance with GJB7927 requirements, it can resist infrared thermal imaging reconnaissance using a new principle and integrate with environmental temperature.



Desert type

Individual anti heat infrared trench camouflage net

Applicable region: snow background, customized according to user requirements. The color difference between the target and the typical background dominant color or standard color is not greater than $2L * a * b$; The brightness contrast value between camouflage spots of different colors should not be less than 0.4; 60 glossiness not exceeding 5; Snow type white paint has a reflectivity of $>75\%$ @ 350nm and a whiteness greater than 90.

The following figure shows a comparison of optical and infrared perspectives under drone mode, perfectly demonstrating the applicability of individual trench camouflage nets in snowy scenes.



UAV optical perspective



UAV infrared perspective



Lufeng full-band camouflage network

Lufeng full-band camouflage network (LF-CN-MUL) is compatible with optical, infrared and radar camouflage performance. The basic performance meets the requirements of the GJB7927-2012 General Specification of Camouflage Network, and its radar absorption design and other technologies are advanced.

Optical camouflage index

Applicable areas: woodland, Gobi, grassland, snow and other backgrounds, customized according to user requirements. The color difference between the target and the typical background advantage color or standard color is not greater than $2L_t^*a^*b^*$; the brightness contrast value between the camouflage spots is not less than 0.4; 60° gloss is not more than 5, the reflectivity of snow-type white paint is $>75\% @ 350\text{nm}$, and the whiteness is greater than 90.



Forest type

Desert type

Infrared camouflage index

Counter-band: $3\mu\text{m}\sim 5\mu\text{m}$, $8\mu\text{m}\sim 14\mu\text{m}$; The absolute value of the average radiation temperature difference between the camouflage net surface and the background (hot standby working state, 80% of the day and night): not more than 4°C ; the emissivity difference between the three-color spots on the surface of the camouflage net is not less than 0.1.

Radar camouflage index

Counterband: Ka, Ku, X, C, S, L. The two-way transmission attenuation value of the indoor test of the camouflage network meets the following requirements: the two-way attenuation value of 1Ka and Ku bands is not less than 15dB; the two-way attenuation value of 2X and C bands is not less than 10dB; the two-way attenuation value of 3S and L bands is not less than 8dB. (3) The attenuation value of the radar scattering cross-section before and after the target camouflage: $\geq 17\text{dB}$ (Ka, Ku band), $>13\text{ dB}$ (X, C band), $\geq 8\text{ dB}$ (S, L band). The radar absorption design can cover the target under the net in the SAR image, and the net itself does not form a bright target.

High-spectrum camouflage index

Counterband: $0.4\mu\text{m}\sim 1.2\mu\text{m}$; the spectral distance between the green spots of the camouflaged mesh and the spectral curve of the typical background green vegetation is not greater than 5.0; the spectral angle value of the camouflaged mesh green spots $0.4\mu\text{m}\sim 0.78\mu\text{m}$ band is not greater than 0.3rad, $0.78\mu\text{m}\sim 1.2\mu\text{m}$ band is not greater than 0.13 rad; more than 90% of the spectral reflection curve of the camouflage mesh meets the requirements of the vegetation spectral reflection channel of the typical background.



Model shielded suitcase

The products are mainly used in electromagnetic shielding, electromagnetic compatibility of electronic products and other fields.



Mobile phone signal shielding bag/box/cabinet

Product introduction

Mobile phone bags/cases with passive electromagnetic shielding capabilities can be widely used in daily management of troops, field training, exercises, and combat operations. Compared to the commonly used signal jammers, they offer advantages such as portability, flexibility, and no need for power supply.

Product features

1. It has both camouflage and electromagnetic shielding functions;
2. Convenient and durable.
3. Products can be customized into bags, boxes, cabinets and other forms according to demand.

Shielded bags

