

Portable HD Ultra-thin X-ray Scanner System (Dual-Energy)



Product Introduction

The Portable HD Ultra-thin X-ray Scanner System is a device using X-ray fluoroscopic imaging. Through high-definition images, operators can quickly detect dangerous goods such as weapons, drugs, explosives and other contraband hidden in suspicious parcels and vehicles. This equipment is suitable for security inspection and bomb disposal, anti-smuggling and drug control, security, customs, post and telecommunications, forensic autopsy, and non-destructive testing in industrial departments.

Product Features

- **High-definition:** High-definition images facilitate operators to identify the types of items in the package and analyze details.
- **Ultra-thin:** The ultra-thin flat panel detector can be placed in narrow gaps for easy inspection.
- **Lightweight:** The equipment is easy to assemble, the flat panel detector is light in weight, and easy to set up.
- **Simple:** Easy to operate, wireless connection, remote control pulse emission, touch screen computer is convenient for image processing.

Applied Scene:

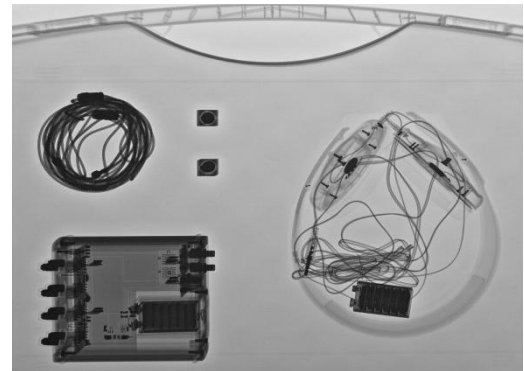
EOD/IED:

Widespread use of explosives presents immense growing challenges and threats to civilians, law enforcement forces, military and police bomb squads and EOD teams worldwide. The key objective of Bomb Disposal Operators is to accomplish their task as safely as possible. For that reason, EOD equipment, and specifically portable x-ray scanner systems play a crucial role in meeting this objective -providing real time, high quality images of suspected objects, while ensuring the safety of all parties

The portable X-ray scanner system plays a crucial role in inspecting everyday objects - such as electronic devices, furniture, walls (concrete, drywall) and even inspecting an entire hotel room. When guarding a public figure, or an embassy, these items as well as innocent looking gifts or mobile phones must be inspected for the slightest alteration in their electronic components which may imply it is being used as a listening device.



IED in Bag



Spy Device in Case

Border Control

The portable X-ray scanner systems are perfect for contraband – drugs or weapons, and IED detection by examination of suspected items across borders and perimeters. It allows the operator to carry the complete system in his car or in a backpack when needed. The inspection of suspected items is quick and simple and provides the highest image quality for on the spot decisions.



Knife &Drug in Bag

Customs

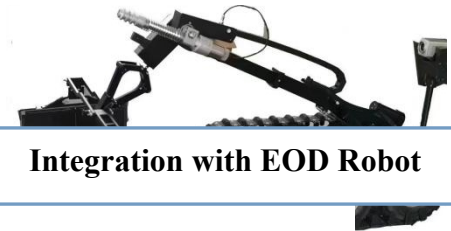
In customs, check point officials must perform a quick, non-intrusive and non-destructive inspection of suspected vehicles and packages with whom they come across on a daily basis. The portable X-ray scanner systems offer an excellent inspection solution for check points that do not have large cargo or vehicle inspection systems or require a complementary



Tyre Inspection

Features

- Can be assembled rapidly on-site.
- Imaging plate using amorphous silicon technology, image is very clear.
- Can operate with remote control in the rear.
- Powerful image enhancement and Analysis tools.
- Intuitive interface, Image splicing infinite, Simplicity of operation.
- User-friendly software.



Technical Parameters

1.Flat Panel Detector

Sensor type	a-Si
Scintillator	Gos / CsI:TI
Effective area	350 x 430 mm
Resolution ratio	2560 x 3072
Pixel size	139 μ m
Power consumption	<20W
Spatial resolution	3.5 LP/mm
Energy range	40-160 KV
Dynamic range	≥ 84 dB
Sensitivity	≥ 0.54 LSB/nGy
Afterimage	<1% 1st frame
Size	385*456*15mm
Weight	≤ 4 kg (including battery)
Structural material	Aluminum-magnesium alloy
Front material of detector	Carbon fiber board
Narrow edge distance	Bottom ≤ 5 mm; left side ≤ 10 mm

2.X-ray Source

Penetration	12mm steel plate (60mm aluminum plate)
Size	309mm×108mm×148mm
Weight	5.0kg (including battery)
Pulse rate	10 pulses per second
Maximum load	200 pulses every 4 minutes (3000 pulses/hour)
Power supply	20V lithium-ion battery, which can emit 6000 pulses when fully charged
Delay time	When the emission switch is triggered, there is a delay time of 15 to 240 seconds.
Voltage	150kv. Pulsed (safety to operator)

3.Imaging System

System platform	Flip touch screen laptop
Software system	Professional image processing and acquisition system
Image processing	Image enhancement and analysis tools, including rotation, inversion, mirroring, zooming, pseudocolor, measurement, stitching, etc.
Image storage	More than 10,000 images
Security function	Encryption dog, registration login, real-name use system, convenient for later inspection

4.Connection Method

Support wireless connection and 50-meter wired connection, one-key acquisition operation, just press the acquisition button to automatically form the best image.

Remote control distance: the standard communication box remote control distance can reach 50 meters, and the optional single wireless bridge and communication box remote control distance can reach 500 meters.

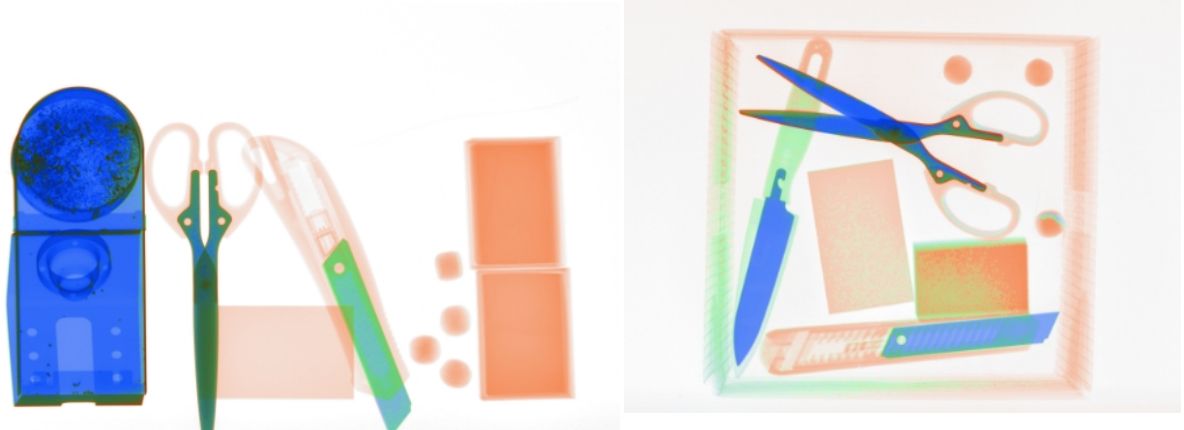
5.Dual-Energy Imaging

Dual-energy output , quickly distinguish between inorganic and organic substances, and observe and analyze various dangerous goods. Dual-energy imaging takes images twice with different energies, and the system will calculate, analyze and fuse the images under the two energies to finally obtain the image after dual-energy material classification.

Size	145*90*36mm
------	-------------

Weight	0.4kg
Battery parameters	12V1Ah
Working time	7 hours

Dual-Energy Imaging Image Effects



Dual-Energy Module and Radiation Source with Dual-Energy Module Installed



Handheld Trace Explosive Detector



Explosive Detector



Explosive Collection Bar

Description

The newly developed HWX16C product is the portable trace explosive detector with the highest detection limit and the most explosives in the domestic and foreign markets. The excellent ABS polycarbonate casing is sturdy and elegant. The continuous working time of single battery is more than 8 hours. The cold start time is within 10 seconds. The TNT detection limit is 0.05 ng level, and more than 30 kinds of explosives can be detected. The product is calibrated automatically.

Features

- Fluorescence based
- No radioactive source
- Automatic calibration
- High sensitivity and low false alarm rate
- Quick start and detection speed
- Broad explosive identification
- Convenient operation

Specifications

NO	Technical Specs	
1	Technology	Amplified Fluorescent Polymer Quenching Sensor
2	Analysis time	≤5s
3	Start-up time	≤10s
4	Sampling method	Particle and Vapor
5	Detection Sensitivity	Particulate: TNT LOD ≤0.05ng
		Vapor: PPM
6	Operating TEMP	- 20 °C ~ 55 °C
7	False alarm rate	≤ 1%
8	Power Consumption	7.5W
9	Rated voltage	7.4V
10	Rated Capacity	65.5Wh
11	Rated Energy	8850mAh
12	Display Screen	3"TFT Color display Screen
13	Com Port	USB2.0
14	Data Storage	≥100000pieces of record
15	Battery	Two Li-ion Rechargeable Battery
16	Battery Working Time	Single battery time up to 8 hours
17	Battery Charging Time	≤3.5hours
18	Alarming method	Visual / Audible / Vibration
19	Dimensions	300mm × 106mm × 71mm
20	Weight	≅ 1.05kg including battery
21	Protection Level	IP53
22	Substances detected	Military, Commercial, and Homemade Explosives including: TNT, DNT, MNT, Picric Acid, RDX, PETN, TATP, NG, Tetryl, HMX, C4, NA, AN, Black Powder, and others.

Non-linear Junction Detector



Production Introduction

HW-801 is a non-linear junction detector. It can detect any electronic equipment hidden in walls, floors, ceilings, lamps, furniture or containers. Whether these electronic devices are transmitting signals or not, they are alerted by display, vibration and sound prompts, so that the detectors can focus on the hidden targets.

Technical Principles

Non-linear junction detector emits S-band fundamental wave to the target area or object, and the receiver captures the second and third harmonics generated by the target object. Artificial intelligence algorithm is used to analyze the harmonic law, so as to detect and identify the electronic equipment with non-linear junctions.

Application scenarios

It can be widely used in government, public security, prison, justice, army, education examination, business security and personal privacy protection, etc.

Business Safety: Detecting unauthorized electronic devices, such as listening-in device, mobile phones and devices with SIM cards, hidden in company board rooms or secret offices.

Public Safety: Detecting electronic devices hidden or prohibited from use in safe areas, such as detonating devices, remote controllers, etc.

Personal Privacy Protection: Hidden cameras and surveillance devices such as recording pens, cameras, etc. in residential buildings and hotels.

Product highlights

High positioning accuracy: The product uses 2400MHz radio frequency detection technology with high precision positioning characteristics.

High semiconductor recognition ability: the product built-in spectrum analyzer supporting second and third harmonic detection can quickly and effectively identify devices containing semiconductors.

High Sensitivity: Especially for SIM card devices with high sensitivity, to ensure that secrets, mobile communications equipment can be quickly detected.

Low false alarm rate: built-in nondestructive detection algorithm greatly improves the detection capability, and the false alarm rate is very low.

High Safety and reliability: meets the requirements of electromagnetic radiation and absolute safety to human body.

Flexible operation: support automatic transmission power and manual mode selection, easy to operate manually

Friendly Man-machine interface: support OLED visual graphical interface, vivid display of power emission level and second and third harmonic graphics, easy to operate.

High cost performance: with the world most cost-effective, cost-saving and excellent performance.

Product Specifications

Product working frequency band	2400MHz
Working voltage	7.4V
Frequency range	2.404 GHz - 2.472 GHz
Receiving 2nd~3rd Harmonic Range	4.808 GHz-4.944 GHz, 7.212 GHz-7.416 GHz
Pulse mode transmit power (maximum)	0~4W (ERIP)
Power Control	Manual or Auto control
Receiving sensitivity	Less than -140dBm
Battery Working Time	4hrs
Battery type	Replaceable lithium battery
Charging time	2.5hrs
Interactive interface	LCD Displays Received Harmonic Signal Intensity
	Audio prompts are supported and headphones can be connected.
	Supporting Vibration Tips
Detection distance	GPS module: 300-500mm Mobile phone: 150-220 mm Secret recording equipment: 90-120mm
Product size	750(L)*114(W)*108mm(H)
Total length	130cm
Outer box size	700(L)*330(W)*180mm(H)
Product weight	1.6kg
working temperature	-30℃ ~45℃
Working humidity	No more than 92%, no condensate

Portable Explosive and Drugs Detector



Description

The device is based on the principle of ion mobility spectrum (IMS), using a new non-radioactive ionization source, which can detect and analyze trace explosive and drugs particles, and the detection sensitivity reaches the nanogram level. The special swab is swabbed and sampled on the surface of the suspicious object. After the swab is inserted into the detector, the detector will immediately report the specific composition and type of explosives and drugs.

The product is portable and easy to operate, especially suitable for flexible detection on site. It is widely used for explosive and drugs inspection in civil aviation, rail transit, customs, border defense and crowd gathering places, or as a tool for material evidence inspection by national law enforcement agencies.

Performance Advantage

- High safety, using non - radioactive ionization source
- Non-radioactive IMS technology, high sensitivity and low false alarm
- High detection efficiency, continuous detection, automatic calibration, sound-light alarm, automatic cleaning, self-diagnosis, without extra manual operation
- Remote diagnose and User friendly
- New Android system makes operation much easier and efficient
- Simple and beautiful appearance design, light weight, easy to carry
- Good human-computer interaction design, with 7-inch TFT LCD touch screen
- Multi-data interface and supporting software, storage of 500,000 raw data
- Upgradable library

Technical Specs

Technology	IMS (Ion mobility spectroscopy technology)
Analysis time	≤8s
Ion Source	Non-radioactive ionization source
Detection mode	Dual mode (explosive mode and drug mode)
Cold Start-up time	<20min
Sampling method	Particle collection via wiping
Detection Sensitivity	Nanogram level (10^{-9} - 10^{-6} gram)
Substances detected	TNT,RDX,BP,PETN,NG,AN,HMTD,TETRYL,TATP, etc.
	Cocaine,Heroin,THC,MA,Ketamine,MDMA, etc.
False alarm rate	≤ 1%
Power Adapter	AC 100-240V, 50/60Hz, 240W
Display Screen	7inch LCD touch screen
Com Port	USB/LAN/HDMI
Data Storage	32GB, support backup through USB or Ethernet
Battery Working Time	More than 3hours
Alarming method	Visual and Audible
Dimensions	412mm×158mm×170mm
Weight	4.8kg including battery
Storage Temperature	- 40 °C ~ 60 °C
Working Temperature	- 10 °C ~ 55 °C
Work Humidity	<93% (non-condensing)
Working Air Pressure	60 Kpa~160 Kpa

View of the device





Carrying Case



Bomb Disposal Suit



Fig 1: Bomb suit



Fig 2: Cooling suit



Fig 3: Communication system

Introduction

This type of bomb suit is designed as a special clothing equipment especially for Public Security, Armed Police departments, for the personnel dressing to remove or dispose of small explosives. It provides the highest level of protection to the personal currently, whilst it offers the maximum comfort and flexibility to the operator.

The Cooling suit is used to provide a safe and cool environment for explosive disposal personnel, so that they can carry out explosive disposal work efficiently and intensively.

Technical Data of Bomb Suit

Bulletproof Mask	Thickness	22.4mm
	Weight	1032g
	Material	Organic transparent composite
Bulletproof Helmet	Size	361×273×262mm
	Protective Area	0.25m ²
	Weight	4104g
	Material	Kevlar composites laminated
The front of smock (Main body of smock)	Size	580×520mm
	Weight	1486g
	Material	34-layer woven fabric (Aramid fiber)
Blast plate +The front of smock	Throat Plate Dimension	270×160×19.7mm
	Throat Plate Weight	1313g
	Abdominal Plate Dimension	330×260×19.4mm
	Abdominal Plate Weight	2058g
Arm (Right Arm, Left Arm)	Size	500×520mm
	Weight	1486g
	Material	25-layer woven fabric (Aramid fiber)
The back of thigh and calf (Left and Right Thigh, Left and Right Shin)	Size	530×270mm
	Weight	529g
	Material	21-layer woven fabric (Aramid fiber)
The front of shin (Left and Right Outer)	Size	460×270mm
	Weight	632g
	Material	30-layer woven fabric (Aramid fiber)
Bomb Suit Total Weight	32.7kg (without helmet+mask+cooling suit)	
Power supply	12V battery	
Communication system	wired communication system, compatible with most communication systems	
Cooling fan	200 liters/min, adjustable speed	
Cooling suit	Clothes weight	1.12 kg
	Water cooled package device	2.0 kg

Ballistic parameter (V50 testing)

Bulletproof Mask	744m/s
Bulletproof Helmet	780m/s
The front of smock (Main body of smock)	654m/s
Blast plate +The front of smock	> 2022m/s
Arm (Right Arm, Left Arm)	531m/s
The back of thigh and calf (Left and Right Thigh, Left and Right Shin)	492m/s
The front of shin (Left and Right Outer)	593m/s

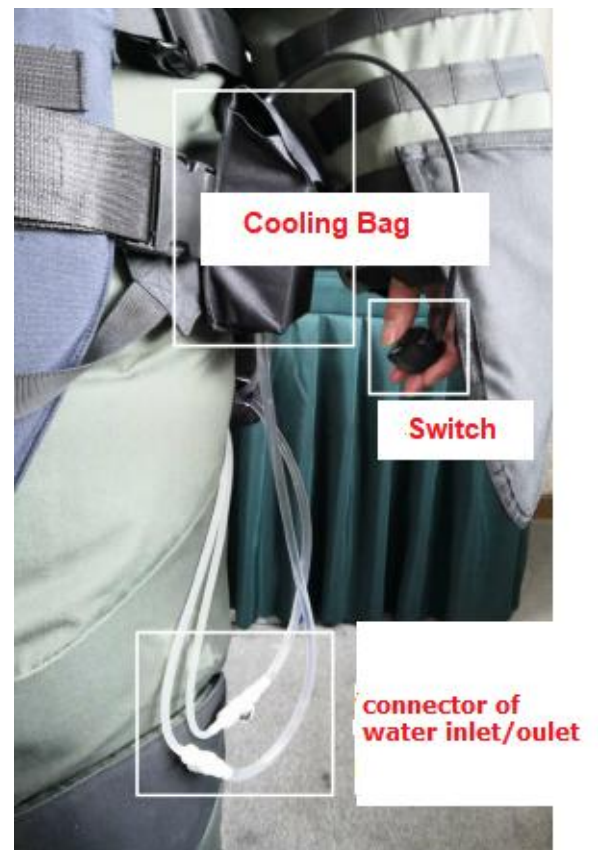
Bomb Suit Details





Cooling Suit

1. Cooling suit
2. Control system
3. Ice box 2
4. Charger
5. Hand bag



Portable Laser Firing System



1. Product Overview

During routine military training and armed police operations, unexploded ordnance such as grenades, rifle grenades, landmines, and mortar shells are often encountered. These situations require rapid emergency response to prevent severe threats to the safety of soldiers and civilians. To address this need, our team has developed the Portable Intelligent Laser Engagement System.

The system enables long-range targeting and high-energy laser ablation for the rapid destruction of ordnance. It consists of a launch barrel, air-cooled laser unit, lithium battery, tablet computer, tripod, and other components, designed for single-soldier portability and operation. The system features easy transportability, rapid deployment, and safe, efficient performance.

The fundamental working principle involves aiming the launch barrel at unexploded ordnance from a distance. The air-cooled laser unit generates high-energy laser beams that are focused into a high-energy laser spot for sustained ablation of the ordnance. This process ultimately leads to detonation or complete destruction of the ordnance, achieving efficient and safe disposal.

The product offers the following main functions:

- (1) Capable of ranging and targeting.
- (2) Capable of focusing high-energy laser beams at long ranges.
- (3) Supports remote control for system operations, including laser activation/deactivation and video recording, and provides a unified display interface for monitoring the operational status of all system components.
- (4) Displays laser power output and remaining battery level.
- (5) Records, stores, and replays the laser engagement process.
- (6) Designed for easy portability, assembly, disassembly, and use.

2. Product Technical Parameters

Detailed system parameters are listed in the table below.

1000W Laser Firing System	
Output Power	$\geq 1000\text{W}$
Total Weight	$\leq 68\text{kg}$
Operating Range	$\geq 150\text{m}$
Penetration Time	≤ 3 minutes to penetrate 3mm steel plate at 150m
Environmental Adaptability	Storage Temperature: -30°C to 60°C Operating Temperature: -20°C to 45°C Humidity: 10% RH to 95% RH
Targeting Accuracy	Equipped with motorized gimbal for precise targeting; targeting accuracy $\leq 5\text{mm}$ @100m
Ranging Capability	Built-in ranging function with error $\leq 2\text{m}$
Remote Control Distance	$\geq 400\text{m}$ under line-of-sight conditions (customizable)
System Operation	System can be remotely operated via tablet
Power Adjustment	Laser output power adjustable continuously from 10% to 100%
Video Recording	Full recording of operational process supported
Safety Protection	Equipped with safety interlock control and emergency stop button
Warning Function	Audio and visual warnings at laser emission end
Operating Time	≥ 45 minutes continuous full-power operation at normal temperature
Setup & Dismantling Time	≤ 3 minutes for two-person setup, dismantling, and transportation
Mean Shots Between Failures	≥ 2000 laser emission cycles
Beam Diameter	$\leq 5\text{mm}$ at 50m $\leq 10\text{mm}$ at 100m $\leq 15\text{mm}$ at 200m

3. System Composition

The hardware of the system consists of three main components: the air-cooled laser main payload box, the lithium battery box, and the gimbal tripod, as shown in the figure below.



(1) Main Payload Box

The main payload box integrates an air-cooled fiber laser, a laser emission device, a tablet computer, a handheld rangefinder, and related accessories such as voltage conversion and communication modules.

- The air-cooled fiber laser provides high-energy laser output. It adopts an all-fiber integrated structure technology, achieving modular miniaturization and high beam quality.
- The laser emission device controls the laser emission. It includes the emission optical path, camera, alarm, and communication modules.
- The tablet computer serves as the user interface and information terminal for the entire system. It connects via Wi-Fi and controls the system through proprietary software, enabling functions such as laser emission control, focus adjustment at different distances, targeting position adjustment, camera imaging, and system information display.

(2) Lithium Battery Box

The system uses a polymer lithium battery as the power source. This battery features high energy density, compact size, lightweight design, and enhanced safety. It powers the entire system, supporting full-power operation for over 70 minutes.

(3) Tripod

The tripod provides support for the laser emission device. It is equipped with an electrically adjustable gimbal tripod head for precise targeting position adjustments. The structure is lightweight, compact, and easy to carry.

The dimensions and weights of these three components are listed in the table below:

No.	Name	Weight (kg)	Dimensions (mm)
1	Main Payload Box	41	680×523×377
2	Lithium Battery Box	22	440×340×190
3	Tripod	6	φ220 × 1000

EOD Robot



I. Product Introduction

HW-400 EOD Robot is the only small and medium size EOD robot that has double gripper design, super multi-perspective function, and with integration of reconnaissance, transfer and disposal. As a size EOD robot, HW-400 has a small volume, weighing only 37kg; but its operating capacity has reached the standard of medium-sized EOD robot, and the maximum grabbing weight is up to 12kg. The Robot is not only structurally robust and lightweight, but also meets national military requirements on many aspects such as dust prevention, waterproofing and corrosion protection.

At the same time, the Robot is an EOD Robot with the highest degree of informatization and intelligence in China. It has the functions of "Intelligent Preset Position Control", "Remote 3D Real-Time Display", "XYZ Gripper Pan Operation based on Automatic Calculation", "Mechanical Buttons and Touch Screen Double Redundant Control", "All-round Smart Protection" and other intelligent and intelligent

auxiliary functions. Because of its intelligent and highly reliable design, users can "Dare to Operate" and "Easy to Operate". Compared with traditional EOD Robot, the time for executing tasks is reduced by 80% and the training time is shortened by 75%. Therefore, it can be widely applied to city anti-terrorism, public safety, earthquake relief, suspicious material inspection, roadside bombing exclusion and other high-risk operations. It can be applied on the following places:

- Subway, airport, train station and other public transport
- Banks, hotels, post offices, cinemas, concert halls, stadiums and other public places
- Outdoor grass, concrete, muddy roads, urban ruins and other harsh terrain

II. Performance Characteristics

(1) Original "Double Gripper" design -- complete a variety of tasks at once, reliable and stable

(2) Graphical design of dual redundant operation -- more friendly interaction, more reliable operation

(3) Remote 3D real-time display -- closely monitoring, and the operation is more intuitive

(4) Intelligent Preset Position Control design -- Easy and fast to operate

(5) XYZ Gripper Pan Operation design based on automatic calculation -- more precise and efficient control

(6) Mode adaptive image system -- seven-way image, the observation angle is more abundant

(7) Integrated Design with Eight Degrees of Freedom Arm -- Control is more flexible and safer

(8) Re-innovation and re-optimization design of the leg and track -- strongly and more reliable leaping over obstacles

(9) Harsh testing and intelligent all-round protection -- users feel more comfortable

III. Technical Specifications

No.	Category	Parameter Name	Parameter Index
1	Structural	Robot size	$\leq 830\text{mm} \times 600\text{mm} \times 460\text{mm}$ (Fully retracted)
		Controller size	$\leq 360\text{mm} \times 210\text{mm} \times 70\text{mm}$
		Robotic arm length	$\geq 1700\text{mm}$ (Without extension joints, fully extended) $\geq 2400\text{mm}$ (With extension joints, fully extended)Optional
		Robot weight	$\leq 37\text{kg}$ (Including two batteries)
		Controller weight	$\leq 2\text{kg}$ (Excluding backpack)
2	Mobility	Maximum speed	$\geq 1.4\text{m/s}$, (5 gear shifting, continuously variable speed)
		Vertical leaping over height	400mm
		The width of leaping over trench	400mm
		Grade ability	45°
		Climbing stairs	45°
3	Grabbing	Robotic arm flat stretch	$\geq 6\text{kg}$
		Robotic arm retracted	$\geq 12\text{kg}$
		Maximum clamping force	$\geq 300\text{N}$
		Maximum clamping width	$\geq 160\text{mm}$ (Without "Widening Clamping Tool") $\geq 280\text{mm}$ (With "Widening Clamping Tool")Optional
4	Robotic arm	No. of gripper	2
		Degree of freedom	8
		The scope of work	0°~360° rotation (horizontal plane)
		The maximum observation height	$\geq 2600\text{mm}$ (The extended pole is optional)
		Maximum gripping height	$\geq 2000\text{mm}$
		The deepest observation height	$\geq 1700\text{mm}$
		The deepest	$\geq 1100\text{mm}$

		gripping height	
		Farthest gripping distance	$\geq 1600\text{mm}$
5	Endurance performance	Continuous working hours	$\geq 3\text{h}$
6	Monitor	No. of cameras	7
7	Controller	Controller form	Handheld
		Monitor specifications	10.1" LCD, Bright screen, can clearly observe in the sun
		Operation method	Button joystick and touch screen dual redundant operation
		Video signal display	7 Ways
		System delay	$\leq 0.25\text{s}$
8	Control performance	Control method	Wired, wireless control
		Cable length	100m
		Wireless remote control distance	$\geq 200\text{m}$ ((Line of Sight))
9	Protective performance	Motion Platform	IP66
		Robotic arm	IP66
10	Extended performance (Optional)	Exchangeable tool set	18 kinds (can be changed quickly)
		Basic tool set	6 kinds: grabber for grabbing, grabber for opening the door, knives, scissors, pliers, extending joints
		Expansion tool set	6 kinds: four claw straight hook harrow, round three claw hook rake, long hook, short hook, round five claw fork, three claw anchor
		Grabbing tool set	6 kinds: Arc rubber mats, cross pattern rubber mats (hard), cross pattern rubber mats (soft), boss rubber mats, outer strut rubber mats (arcs), outer strut rubber mats (ladders)
11	Smart display	3D real-time display	The status of the Robot and robotic arm is shown by remote three-dimensional display, you can zoom in, zoom out, change perspective
		Intelligent	If the Robot is operated incorrectly due to Human

		protection alarm	Factors, the system automatically checks the error status and alarmed, and stop the relevant error operation
12	Intelligent control	Preset Position Control	Robotic arm is equipped with "Preset Position Control ", that is, one-button operation, the robot arm can independently reach the appropriate operating status
		XYZ-based operation	XYZ-based operation, i.e., the robot arm has the operation based on the Cartesian coordinate system, the trajectory of the linear motion of end gripper can be realized to multiple directions, such as forward, backward, left, right, up, down

EOD Robot



Description

EOD robot consists of mobile robot body and control system.

Mobile robot body is made up of box, electrical motor, driving system, mechanical arm, cradle head, monitoring system, lighting, base, rechargeable battery, towing ring, etc.

Mechanical arm is made up of big arm, telescopic arm, small arm and manipulator. It is installed on kidney basin. Double electric stay pole and double air-operated stay pole are installed on mechanical arm. Cradle head is collapsible. Air-operated stay pole, Camera and antenna are installed on cradle head. Monitoring system is made up of camera, monitor, antenna, etc.. One set of LED lights is mounted on the front of body and on the back of body. This system is powered by rechargeable Lithium battery.

Control system is made up of center control system, control box, etc.

Optional accessories of EOD robot body: tail, wireless transmitting antenna, hardware tool

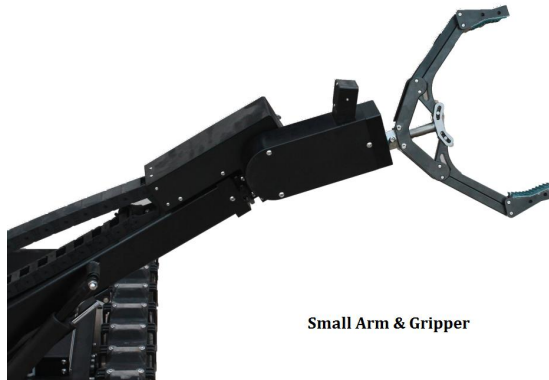
(include cutter, hook, rake).

EOD robot has passed test of the Ministry of Public Security and accorded with relevant regulations of <GA/T142-1996 EOD robot general technical specification>.

Application Environment

- Transfer of the suspicious objects in public places (metro, airport, railway station, shopping mall, conference center, etc).
- Material fetching and transfer under hazardous biological and toxic environment.
- Reconnaissance, material fetching and transfer within the ruins environment after disaster.
Material fetching and transfer under nuclear radiation environment.

Product Picture



Small Arm & Gripper

Technical Parameter

Robot Body	
Materials	Aircraft-grade aluminum alloy, precision machining
Dimensions	L*W*H: 920 * 625 * 515mm
Weight	About 93kg (without accessories, package and control box)
Battery	Rechargeable battery
Working time	≥3 hours when fully charged (Combined Cycle Conditions)
Maximum Speed	1.0m/s
Loading Capacity	When loading 150KG, it can move normally (actual measurement).
Lift Capability	It can move with clamping weights of 40KG and will not drop (actual measurement).
Grade Ability	It can climb up the slope of 45° and stop steadily on the slope.
Climbing Stairs Ability	With traction-free assist, it can climb up and down the stairs of 160mm step height and 45°angle slope.
Drag Capability	500N
Turning Ability	In horizontal cement ground or bituminous pavement, the robot can turn clockwise or anticlockwise 360°.
Limited Passage Width	≤700mm
Over-obstacle Capacity	It can cross the obstacle of 280mm height.
Max. Mechanical Arms Spread	1650mm
Gripper of Manipulator Maximum Expansion Range	250mm
Arm Extension when stretch out and draw back	500mm
Control Box	Via the buttons and handle of control box, the operators can control video switch, zoom, moving, cradle rotating, floodlight, telescopic arm, gripper opening and closing, small arm rotating, big arm lifting, kidney basin rotating, wrist rotating, etc.
6 Mechanical Arm DOFs	Manipulator gripper opening and closing Manipulator gripper rotation Small arm rotation Telescopic arm extend and retract Big arm rotation Big arm rise and fall
Rotation Angle	Manipulator gripper can rotate clockwise and anticlockwise 360°; Small arm can rotate clockwise 150° and anticlockwise 110°; Big arm can pitch angle of 90°; Kidney basin can rotate clockwise 180° and anticlockwise 45°
Control Distance	Wireless control: ≥150m (Line of Sight); Wired control: 100m
Number of Cameras	4
Forward Camera	Low-light camera

Backward Camera	Low-light camera
Cradle Head Various focal Camera	Low-light camera
Manipulator Gripper Camera	Low-light camera
Floodlight	Two group LED floodlight (one group on the front and back)
Monitoring cradle head	
DOFs of Cradle Head	2 independent DOFs, adjustable rotation speed. Cradle rotation: 360° continuously, maximum rotation speed of 130° per second. Cradle pitching: $\pm 45^\circ$, maximum pitching speed of 50° per second.
Control Terminal	
Box	Portable, waterproof, dustproof, high strength
Size	$\leq L\ 460 * W\ 370 * H\ 260\ mm$
Weight	$\leq 10kg$
Display Screen	12-inch HB LCD, wide viewing angle, outdoor clear picture
Operation	High-quality rocker handle, human software interface design, easy observation and convenient operation
Display Image	It can monitor 4 video signals simultaneously or separately amplify one of 4 video signals
Information Display	Real-time battery status
Battery	Rechargeable 12V lithium battery, working time 3 hours when fully charged.
Optional Accessory	
Drill, clipper, cutter and rake	

Electronic Listening Device



A professional listening device based on RF technology that can detect timed detonation devices under various packaging covers, including electronic ones made of electronic watch, pagers and various remote control devices and mechanical ones, efficiently assisting in explosive search and disposal work. The device has a compact structure, is easy to carry, and is suitable for various complex search and explosion environment; At the same time, it can be used as an anti-reconnaissance device to detect electronic eavesdropping and photo stealing devices.

Highlights

- **Authoritative Certification:** Tested and certified by Chinese authoritative institutions, meeting IP65 protection level requirements.
- **Strong Detection Performance:** Adopting RF listening detection technology, has a long detection distance, strong penetration ability, and high positioning accuracy.
- **Low Noise:** Supports wired listening, equipped with non-destructive sound detection and noise cancellation technology, realistically restoring sound details.
- **Easy to Use:** Ready to use upon startup, with simple buttons and visualized sound waveforms, making it easy to get started and use quickly.
- **Long Battery Life:** Low power consumption, supports 10 hours of long-term operation.

Technical Specifications

Item	Description
Working voltage	3.7V
Antenna polarization	Circular polarized
Detection distance	$\geq 3.5\text{m}$, mechanical watches $\geq 0.8\text{m}$, electronics timing devices, and digital timers
Penetrability	Can penetrate 100mm-thick polyethylene foam + 200mm-thick A4 printing paper (70g), mechanical watches, electronic analog clocks, and digital clocks
Display	LCD screen
Battery	Lithium battery, $\geq 10\text{h}$ (at maximum power consumption)
Noise canceling headphones	Noise reduction capability $\geq -20\text{dB}$
Size (host)	209mm * 136mm * 154mm
Size (package)	410mm * 258mm * 260mm
Weight	1.05kg $\pm$ 0.05kg
Protection level	IP65

Explosive Devices Disrupter



Description

The Water Jet Explosive Devices Disrupter is an equipment used for disruption of Improvised Explosive Devices with a high probability of avoiding detonation or explosion. It is composed of barrel, buffer, laser sight, nozzle, projectiles, tripod, cables, etc.

The device is especially designed for EOD and IED persons. The disrupter comprises a specially designed liquid container. A high pressure nuzzle is available to generate a very high velocity jet of cool liquid in case of handling with high duty IED.

The provided laser light allows to accurate aiming. The tripod with ratchet wheel stop mechanism guarantees that the disrupter will not move backwards or tumble when shooting. The specially designed legs can be adjusted to correct working position and angle.

Four different bullets are available: water, spading, organic glass, punching bullet.

Specifications

Weight (Main Unit)	21 kg
Package Dimension (Main Unit)	64×28×52 cm
Package Dimension (Accessory box)	56×22×46 cm
Total Weight	45 kg
Detonate Power Supply	3-9V/1A
Battery	9V
Caliber	38mm

EOD Telescopic Manipulator



Description

Telescopic manipulator is a kind of EOD device. It is comprised of the mechanical claw, mechanical arm, counterweight, battery box, controller, etc. It can control the claw's open and close. This device is used for all dangerous explosive articles disposal and suitable for public security, fire fighting and EOD departments. It is designed to provide the operator with a 3 meters stand-off capability, thus significantly increasing operator survivability should a device detonate.

Features

- High grabbing capacity: it can grab about 15 kg objects.
- 3 meters stand-off capability
- Rechargeable battery
- Adjustable counter balance
- The mechanical claw can be operated electrically and rotated 360° manually;
- The height of bracket is adjustable with universal wheels which can be locked;

Specification

Weight	11kg
Material	High-strength light-weight carbon fiber
Grabbing Capacity	More than15 kg
Max Clamp Weight	20kg
Counter Weight	9kg
Assembly Time	3 minutes
Length of Telescopic Pole	4.68m
Dimension (cm):	1286*346*140mm
Working Time	5hrs. continually
Claw Maximum Opening	20.5cm
Claw rotation	360 degrees continues

EOD Manipulator



Description

Telescopic manipulator is a kind of EOD device. It is comprised of the mechanical claw, mechanical arm, battery box, controller, etc. It can control the claw's open and close.

This device is used for all dangerous explosive articles disposal and suitable for public security, fire fighting and EOD departments.

It is designed to provide the operator with a 4.7 meters stand-off capability, thus significantly increasing operator survivability should a device detonate.

Features

- High grabbing capacity: it can grab about 20 kg objects.
- 4.7 meters stand-off capability.
- Rechargeable battery.
- Battery box designed as counterweight.
- The mechanical claw can be operated electrically and rotated 360 degree electrically.
- The height of bracket is adjustable with universal wheels which can be locked.

Technical Specification

Physical Parameter	
Weight (with battery)	16.8 kg
Material	High-strength light-weight carbon fiber
Pole Length	2.75 m ~ 4.7m
Claw Max. Opening Size	20cm
Max. Grip Weight	2.75m (pole length): 11.5kg
	4.7m (pole length): 20kg
Wheel Diameter	30cm
Wheel-center-distance	44cm
Claw rotation	360 degrees
Camera Parameter	
Image Sensor	1/2.9 inch ultra-low illumination 2 megapixel CMOS
Built-in HD Lens	2.8mm
Resolution	1080P
Min. illumination	Color 0.01Lux@(F1.2,AGC ON)
Backlight compensation	AUTO
Frame rate	50Hz:25fps (1920*1080); 60Hz:30fps (1920*1080)
Protection Class	IP68
Display Parameter	
Display Size	7 inch TFT-LCD screen
Resolution	1080P
Screen Backlight	LED
Brightness	500cd/m2

FOV	150°
Voltage	12v
Power	6.5w
Language	English
Other Parameter	
Working Time	5hours with built-in rechargeable battery
Operating temperature	-20℃ to +45℃ ; 0~98%Rh
Storage temperature	-20℃ to +45℃ ; 0~98%Rh
ABS Case dimension	146x38x50cm
Packing weight (device+case)	32.2kg



Soft Explosion-Proof bin



Technical Parameters

- (1) Total Weight: $\leq 40\text{kg}$;
- (2) Size: Inner Diameter: 400mm, Outer Diameter: 650mm, Height: 650mm;
- (3) Explosion-proof Capability: It can defend against the explosive power generated by 500g TNT equivalent explosives and explode inside the explosion-proof tank without perforation.;
- (4) Safe Distance: $\geq 3.5\text{m}$, Shock wave overpressure $\leq 20\text{kpa}$ is outside the safe distance.

Applicable Scenarios

Used for emergency handling of large-yield explosives, can be used for security assurance in police duty, civil aviation airports, high-speed rail stations, and subway stations, can also be deployed in convention centers, stadiums, exhibition halls, scenic areas, shopping malls, banks, schools, hospitals, and other relatively crowded places.

Portable Intelligent Reconnaissance Robot



Product Introduction

Portable intelligent reconnaissance robot is rugged, small and lightweight. The robot survives dropping on ground and can be quickly deployed in narrow spaces, moving quietly and fast, equipped with cameras and pickups to collect real-time audio and video data of on-site environment, even in darkness.

Individuals can remotely manipulate the robot to certain places or dangerous areas while maintaining a safe distance, monitoring the place or target objects in real time, so as to make decisions and actions quickly.

Features

Lightweight and portable, covert reconnaissance

The chassis is small in size and light in weight, it can be thrown by one hand; The equipment runs with low noise and strong concealment.



The material is sturdy, waterproof and dustproof

The chassis has been tested for drop and water resistance, and is designed with a sturdy and reliable structure to adapt to a variety of extreme environments.



Application

3D Mapping Application

Equipped with 3D LiDAR, it enables rapid scanning and modeling of complex terrains, collecting detailed environmental data and transmitting it in real-time to the controller to generate high resolution 3D maps.



2-Way Intercom Application

With a two-way intercom module, it enables real-time voice communication. Operators can remotely converse with on-site personnel, quickly delivering instructions and receiving feedback thereby enhancing communication efficiency and safety in special missions.



Specification

Robot chassis		
	Size	337*300*155 mm
	Weight	5 kg
	Working hours	3 hours
	Payload - Mobility Platform	5 kg
	Mobility-Speed	About 7.2km/h
	Mobility-Agility	Zero radius turn
	Mobility-Slope	About 35°
	Mobility -Vertical Obstacles	About 170mm
	Dropping Height	About 3m
	Color Camera	2
	H/V/DFOV	137° /47° /167°
	Working Temperature	-20-50℃
	IP	67
	Battery Life	500 discharge cycles (23℃)
	Autonomous function	One-click to climb the ladder.Reverse automatically.
Controller		
	Size	189*138*41mm (The antenna is retracted.)
	Weight	850g
	Memory and Storage	Standard configuration: 2GB RAM + 16GB ROM, supports expansion with a 512GB TF card.
	Operating System	Android 9.0
	IP	53
	Screen and Brightness	5.5-inch 1080P high-definition bright LCD touch screen, with the maximum screen brightness of 1000 nits.
	Battery	10.2Ah, 7.4V, 2S lithium battery
	Working hours	10h
	Communication distance	<500m
	Working Temperature	-10-50℃
Optional modules		

3D Laser Scanning Module		
	Size	150x80x105mm
	Weight	960g
	Acquisition Range	0.5~40m
	Acquisition Rate	10Hz
	Laser Safety Class	Class1 safe for human eye
	Rated power	18W
	IP	67
	Laser wavelength	905nm
Dual-Light PTZ		
	Size	78×78×109mm
	Weight	250g
	Operating Temperature:	-10℃~+50℃
	Spectral Range	8 μ m~14 μ m
	Controllable Angle Range	-10 ° ~+90 ° (Pitch Axis); -90° ~+90° (Pan A
	Resolution	384×288
	FOV	24.8° ×18.7°
	Pixel Pitch	12 μ m
Two-Way Intercom		
	Two-Way Intercom- Dimensions	202×170×160mm
	Rated Power	60W
	Pickup Sensitivity	-35dB
	Self Weight	900g
	Speaker Sound Pressure	130dB@1m
	Operating Temperature:	-20℃~+65℃

Accessories

Standard Accessories

- Robot chassis
- General controller
- Power adapter
- Headphones
- Carrying case



Video Endoscope with Fiber Optic Light



Description

It is portable and ease use, 360° arbitrarily oriented, integrated design, lightweight and portable. 3.5 inch TFT LCD screen, high definition image sensor technology, HD image, with the function of taking video and photographs, probe and protective device corrosion, Oil resistant, wear resistance, waterproof and dust proof meets IP67 requirements. It can be inside the tank and other harsh environmental conditions to check whether there are contraband.

Specifications

Camera Diameter(mm)	Φ6mm
Camera Pixel	1,000,000
Display Resolution	640 x 480
Angle of Field	70°
Maximum observation distance	10m(A4 paper sized objects)
Image Magnification	4X
Light Control	0-7 levels
Illumination	8000lx
Lighting Mode	rear fiber optical light

Probe material	titanium alloy protective shell
Bending Control	360° manual all-way articulation
Bending Angle	≥150°
Effective Working Length	1.5m
Insert Tube	Tungsten-braided tubes.Oil resistant and corrosion resistant
Language	Chinese, English, Russian,French etc.
Display	Highlight 3.5 inches
Host Structure	Hand-held Design
Memory	Standard SD card:8G, Maximum: 32G
Port	Mirco HDMI
Probe articulation control	The speed of the probe articulation is controlled by rocker. Release the rocker to complete positioning.
Operating temperature	-10 to 50°C
Weight	≤0.55kg (with batteries)
Power Supply	Rechargeable lithium battery (dismountable)
Battery Capacity	DC5V, Maximum current:1A
Size	240 x 102 x 126 mm

Mine Detector



Product Introduction:

The mine detector is designed for mine detection and clearance operations during and after wartime, capable of detecting various landmines or unexploded ordnance buried underground. It can also be used in international peacekeeping, Anti-terrorism, and security inspections to search for explosives, firearms, knives, etc., hidden underground, in water, or within buildings, providing accurate information for hazardous item disposal.

Product Advantages:

1. Advanced Detection Technology with High Sensitivity:

Utilizes innovative multi-pulse-width bipolar pulsed electromagnetic induction technology, significantly improving detection sensitivity. For Type 72 anti-personnel mines, the detection range exceeds 16 cm.

2. Strong Soil Adaptability:

The advanced soil background suppression algorithm effectively eliminates background interference, enhancing adaptability to complex environments. It maintains high sensitivity when detecting in alkaline soil, magnetic soil, seawater, and other challenging conditions.

3. Lightweight structure, easy operation, excellent waterproof performance:

The product adopts a foldable integrated structure design, compact structure, light weight, overall coordinated and beautiful appearance, easy operation, and can meet the waterproof level of IP68 for the whole machine.

Technical Parameter

Total Weight during Operation	≤3kg
Detection Distance	≥15cm (for GLD111 anti-personnel mines)
Operation Length	90cm~130cm, continuously adjustable
Probe diameter	≥ 20cm
Alarm mode	Audible alarm and LED display
Soil adaptability	general soil, magnetic soil, alkaline soil, and red soil
Battery	4 D-type batteries (1.5V lithium polymer rechargeable battery or alkaline battery, 1.2V nickel hydrogen rechargeable battery)
Continuous working time	≥ 12 hours (at room temperature, with standard battery)
Operating Temperature Range	-40 °C to+55 °C
Protection level	IP68

Pictures:



36-Piece Non-Magnetic Tool Kit



Description

The 37-Piece Non-Magnetic Tool Kit is designed for bomb disposal applications. All tools are manufactured from beryllium copper alloy. It is an essential tool when the explosive disposal personnel take suspicious explosives apart in order to avoid producing sparks because of magnetism.

All tools are packed in a rugged duty fabric carrying case with non-magnetic fittings. The case has individual cutouts in foam trays provides an excellent tool control system which clearly shows if any tool is missing.

Configuration list

S.N	Name	Qty	Specification	Picture
1.	Hammer, Sledge	1	1.81kg;	

2.	Hammer, Ball Pein	1	0.91kg	
3.	Wrench, Pipe	1	450mm;	
4.	Wrench, Adjustable	1	150mm,	
5.	Wrench, Adjustable	1	200mm;	
6.	Wrench, Combination	1	10mm;	
7.	Wrench, Combination	1	8mm	
8.	Pliers, Lineman	1	200mm;	
9.	Pliers, Lineman	1	150mm;	
10.	Pliers, Snipe Nose	1	150mm;	
11.	Pliers, Adjustable, Combination	1	200mm;	
12.	Pliers, Round Nose	1	150mm;	
13.	Pliers, Flat Nose	1	150mm;	



14.	Pliers, Diagonal Cutting	1	150mm;	
15.	Slotted Screwdriver(mm)	1	75mm	
16.	Slotted Screwdriver(mm)	1	100mm;	
17.	Slotted Screwdriver(mm)	1	150mm;	
18.	Slotted Screwdriver(mm)	1	200mm;	
19.	<u>Phillips Screwdriver (mm)</u>	1	75mm;	
20.	Phillips Screwdriver (mm)	1	100mm;	
21.	Phillips Screwdriver (mm)	1	150mm;	
22.	Phillips Screwdriver (mm)	1	200mm;	
23.	Slotted Offset Screwdriver (mm)	1	6*72mm	
24.	Slotted Offset Screwdriver (mm)	1	8*125mm	
25.	Slotted Offset Screwdriver (mm)	1	10*196mm	

26.	Chisel 6 Point	1	16*160mm;	
27.	Shears,Cutting	1	150mm;	
28.	Knife, Common	1	250mm;	
29.	Knife, Putty	1	50*200mm;	
30.	Tweezers, Neat Tips	1	200mm;	
31.	Bar	1	19*500mm;	
32.	Marking Tool	1	250mm;	
33.	Bar, Wrecking	1	400mm;	
34.	Hacksaw Frame	1	500mm;	
35.	Hacksaw Blade	1	300mm;	
36.	Brush, Flat Back, Scratch	1	6*16mm	
37.	ABS Case	1	511x430x200mm ;	

Hook and Line Kit



Description

The **Hook & Line Kit** provides a bomb technician with a wide range of equipment that can be deployed to gain access and to remove, manipulate and handle suspicious explosive devices contained inside buildings, vehicles, as well as in open areas.

It includes **26 types** of components for attaching line, anchoring pulleys and manoeuvring dangerous objects to a safe position. All components fit into a compact carrying case and can be easily carried by one person.

Configuration List

Item No.	Name	Photo	Qty	Specification	Material
1	Main line		1	Length: 50m Diameter: 6mm	

2	Nylon rope with cove		2	Diameter: 7mm Length: 1.2m, 2.5m Weight: 35g, 55g Load: ≤180kg	Polypropylene rope
3	Wire rope with sheath		4	Length: 2m Diameter: 1.5mm Length: 2m Diameter: 2mm Length: 2m Diameter: 3mm Length: 0.45m Diameter: 2mm	Stainless steel
4	Protecta		1		Aluminum, cygon
5	Hook		4	120*70*15mm 80*38*15mm 57*20*13mm 75*58*38mm	Stainless steel
6	Vise grip pliers		1	Length: 245mm Opening Length: 17-38mm Hemming aperture: 20mm	Stainless steel 10 inch
7	Screw eye		5		Galvanized iron material



8	Ring		2	Thread:M8	Stainless steel
9	Hammock		1	Length: 800mm Width: 80mm	Nylon braided tape
10	Shackle		2	Width: 12mm Notch Depth: 12.5mm Bore Diameter: 6.5mm	Stainless steel
11	Wedge nail		4		Chromium alloy
12	Brace rod		1	Length: 745-1180mm	
13	Slide bar retainer		1	Opening Size: 200mm The depth of the clamp arm: 130mm	
14	Detachable pulley		4	Size: 210*75*40mm Applicable to rope: 4-10mm	



15	Fixed pulley with locking device		1		
16	Master lock		5		
17	Extension rod		2	Connecting screw hole: M10 Overall sizes: φ 13×80 φ 12×60	
18	Online card block		1		
19	Spherical clip		2		
20	Adhesive fixed plate		10	Size: 90mm*90mm	
21	Vacuum chuck		1	Size: 400*115*110mm Sucker diameter: 115mm	
22	Dustpan		1	Size: 80*310*160mm	



23	Escape-proof hook		2	Size: 135*80*12mm 110*80*12mm	
24	Ground anchor		2	Overall sizes: φ 65×60 φ 38×50 Drag ability: 5kg, 3kg	
25	Multi-purpose tool		1	Size: 100*50*22mm Weight: 195g	
26	Expansion link		1	Shrink Length 64cm Stretch Length 270cm	carbon fiber

The Advanced Hook and Line Tool Kit



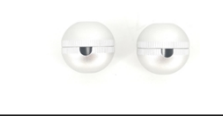
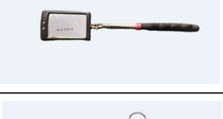
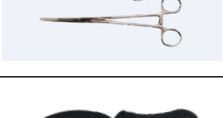
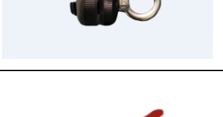
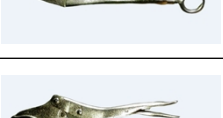
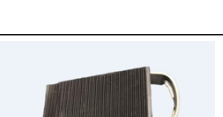
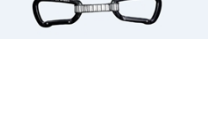
Description

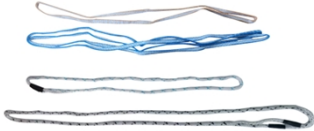
The Advanced Hook and Line Tool Kit is for Explosive Ordnance Disposal (EOD), Bomb Squad, and Special Operations procedures. The Kit features high quality components, stainless steel hooks, high-strength marine-grade pulleys, low-stretch high grade Kevlar Rope and other essential tools made specifically for Improvised Explosive Device (IED), remote movement and remote handling operations.

Accessories

No.	Description	Picture	Qty
1.	Reel Main Line		1

2.	Pulling Handle		1
3.	Hook, Plain Tip, 1/2 inch Hook, Plain Tip, 1 inch Hook, Plain Tip, 2 inch		1
			2
			2
4.	Hook, Double		2
5.	Gap Hook		1
6.	Hook with Spring Gate		1
7.	Strap Cutter		1
8.	Anchor Pads		5
	Self-Adhesive		15
9.	Anchor — Wall Nut		2
10.	Suction Anchor		2
11.	Wood Screw Eyes		5
12.	Piton		2
13.	Cantilever Jaw		1

14.	Snatch Block Pulleys, Standard		2
15.	Snatch Block Pulley, Self—Opening		2
16.	Pulley Opener		2
17.	Search Mirror		1
18.	Seizers/Forceps		2
19.	Strap Cutter		1
20.	Clamp - Center Line Branch		1
21.	Light weight spring clamp		1
22.	Needle Nose Clamp		1
23.	Vise Jaw Grips		1
24.	Large Mouth Vise Jaw Grips		1
25.	Rubber Door Wedges		2
26.	Carabiner (Can self-locked)		2

	Carabiner (Can not self-locked)		2
	Carabiner (Two locks combined together)		2
27.	Bar Clamp		1
28.	Extension Rod Anchors		1
	connecting rod		4
29.	Telescoping Pole		1
30.	Endless Loop Slings (Two long/Two short)		4
31.	Sling Webbing (One long/One short)		2
32.	Wire Rope Sling (One long/One short)		2
33.	Shock Cord (Two long/Two short)		4
34.	Rope Sling (One long/One short)		2

Wireless Remote Detonation System



Production Introduction

The wireless remote detonation system developed by our company is mainly used for the wireless remote detonation of blasting charges, electric ignition explosive devices and non-lethal munitions. It can be used in the army, armed police, special police, public security and other military ordnance disposal work and related military exercises.

General Features

- The communication distance is far, and can be up to 2000 meters (LOS)
- The system can command up to 16 remote initiators at a time individually or in any combination.
- 5-inch high-definition display screen, real-time display of initiator's status.
- Multi function selection, the number of initiator can be freely selected for control.
- The safety device can be started by the detonation double key to prevent misoperation.
- The initiator can be reused under the non detonating live ammunition state (exercise).
- The initiator can set the number freely, and the controller can automatically correspond to the number after starting up.

Technical Specs

Initiator	
Initiator Max. Number	16
Display	Digital tube display
Standby time	About 12 hours
Battery	CR123A Li battery
Output voltage	5V
Output current	1A
Working frequency	868MHz

Remote Controller	
Controller Number	1
Display	5inch IPS screen
Resolution	480X854
Remote range	Up to 2000m
Standby time	About 20 hours
Battery	12V alkaline battery
Working frequency	868MHz

Hand-Held Metal Detector



Description:

The **Hand-Held Metal Detector** is designed to meet the exact requirements of the security industry. Typical uses include body search for offensive weapons in airport and border security, checking parcels and letters for metal objects or anywhere that hidden metal needs to be detected. The sensitivity of the detector is determined primarily by the size, shape and composition of the object to be detected.

Features:

- *High sensitivity;*
- *Simple and convenient to use, no adjustment is required;*
- *The detection distance does not need to be changed when the battery voltage drops from 9V to about 7V;*
- *Low power consumption, it can work for 40 hours continuously;*
- *Low battery alarm;*
- *Switch on/off audio prompt function;*
- *Audio, light and vibration, three types of handoff switch available.*

Specifications:

Power Supply	9V standard
Power	270mW
Operating Frequency	22KHz
Operating Current	< 50mA
Operating Voltage	7V~9V
Operating Temperature	-20°C ~ +55°C
Net Weight	409g(excluding battery)
Dimension(cm)	41(L)×8.5(W) ×4.5(H)
Indicator	Red / Green LED
Vibration Control	On/Off Switch;
Accessory	Holster (free)

Portable Wide-Band Wireless Frequency Jammer



Introduction

The device is suitable for use in special environment (small space, no power supply, vehicle-mounted interferometer can not enter the place). It is a comprehensive application of analog radio technology, including electronic countermeasures, analog signal processing, power amplification, special antenna design and many other advanced technologies, which can adapt to the need of on-site disposal of wireless remote control device explosives. It is a new equipment in the field of electronic countermeasures, and its performance indicators can meet the actual needs of the public security and armed police departments for riot control, anti-terrorism, explosive disposal, escort, criminal investigation and technical investigation. It adopts the latest jamming signal technology, and the transmitting power and jamming distance are more suitable for the actual work.

The system has strong function, wide range of jamming and blocking wireless explosive device, simple operation, flexibility and convenient installation and erection. It can be used for the disposal of wireless remote control explosive devices in the explosive disposal site, can be used for the security needs of confidential meetings, can be used for the scene stability of mass incidents and other special places that need interference shielding.

Features

- 1) Small size, light weight, easy to handle, suitable for individual operation.
- 2) Moderate transmitting power, small radiation to the site staff.
- 3) Directional transmission in important frequency band, especially suitable for fixed-point explosive disposal in a small range.
- 4) One-key operation, intelligent control, simple operation, convenient for staff to use.
- 5) The indicator light on the panel indicates the electric quantity and working status of the equipment.
- 6) The device can be operated in the distance by wire control and the device status can be displayed on the screen.
- 7) The interference signal adopts the method of broadband sweep frequency and time-domain strengthening of key frequency points to increase coverage under the condition of the same power.
- 8) High-precision semiconductor components are used for core components to ensure the advancement and reliability of products.
- 9) Dual power supply system is adopted. It can use 220V mains power supply or internal battery pack power supply.

Technical parameters

No	Frequency range	Transmitted power	Antenna	Interference Target
1	27-72 MHz	15W	A:Wide-band monopole omnidirectional antenna	Toy remote control
2	136-174MHz	25W	B:Wide-band monopole omnidirectional antenna	VHF industrial and civil remote control
3	315-470MHz	15W	C:Wide-band monopole omnidirectional antenna	UHF industrial and civil remote control
4	758-803MHz	35W	Built-in array directional antenna	
5	870-880MHZ	35W		850MHz Intercom,CDMA800MHz
6	930-960MHz	35W		DCS1800/CDMA1900MHz/4G-TLE
7	1805-1880MHz	50W		3G-W-CDMA,CDMA2000,4G-LTE
8	1880-1920MHz	50W		
9	2110-2170MHz	35W		4G
10	2300-2400MHz	35W		WIFI
11	2515-2675MHz	35W		5G
12	3400-3600MHz	50W		5G
13	4800-4960MHz	35w		
14	5150-5850MHz	25W		WIFI

Note: It depends on the frequency of mobile phone in each country.The actual frequency band is customized according to the frequency band provided by the customer.

-
1. Operation mode: switch the machine on and off with one key, and display the working status through operation display panel or remote control;
 2. Transmission power: 475W;
 3. Power consumption: MAX1300W;
 4. Power adaptability: AC220V/DC24-26V;
 5. Operation time: built-in DC24V42AH power battery pack, can support the equipment to work continuously for 50 minutes;
 6. Built-in charger: 29.5V&8A charging time is about 6 hours;
 7. Main device (including antenna) weight 44kg;
 8. Host size: 63*50*30cm;
 9. Reliability and maintainability requirements: MTBF $\geq$ 1000 hours, MTTR $\leq$ 1 hour;
 10. Interference style: frequency block interference, sweep interference;
 11. Working mode: sweep frequency, dressing spectrum and direct sequence spread spectrum combination;
 12. Working mode: low frequency, full frequency, mobile phone three modes;
 13. Protection function: RF output no-load and short circuit protection; Internal power system with under voltage, over voltage, overload, short circuit and other protection, sound alarm function;
 14. Interference distance: 20-80m (distance and base station distance, and whether there is a mobile phone amplifier)