C4i
communication

EXPERIENCE THE DIFFERENCE
YOUR SECURITY & SAFETY PRODUCTS

EOD SOLUTION
Catalog

Product List

1. Portable X-ray Scanner System

Model:C4I-XRY-03

Description:

This device is a light weight ,portable,battery powered x-ray scanning system designed in co-operation with the first responder and EOD teams to meet the need of the field operative. It is light weight and comes with user friendly software that helps operators in understanding the functions and operations in a less time.

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 suspect objects, while ensuring the safety of all parties involved.


IED in Bag

Counter Surveillance

The portable X-ray scanner system plays a crucial role in inspecting every 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 being used as a listening device.
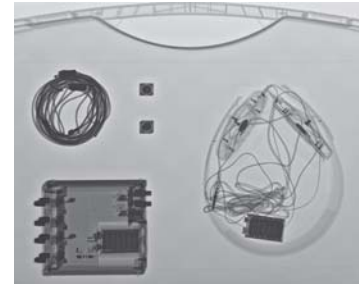
Spy Device in Case

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 solution.It is ideal for contraband inspection such as ammunition, weapons, drugs, jewelry and alcohol.

Tyre Inspection

Features

Can be assembled rapidly on-site. Imaging plate using amorphous silicon technology, whose 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.

Integration with EOD Robot

Specification:

A		Technical Specification of the imaging plate
1	Detector Type	Amorphous Silicon with TFT
2	Detector Area	433mm x 354mm (Standard)
3	Detector Thickness	15mm
4	Pixel pitch	154 μm
5	Pixel array	2816x2304 pixels
6	Pixel Depth	16 bits
7	Limiting Resolution	3.3 lp/mm
8	Image Acquisition Time	4-5s
9	Weight	6.4kg with battery
10	Power supply	220V AC/50Hz
11	Communication	Wired: 50 meters fiber on a roller, TCP/IP Ethernet
		Wireless: 5G Wi-Fi , no less than 70m
12	Operating Temperature	-10℃+55℃
Technical Specification-x-ray Generator		
1	Operating Mode	Pulse, it launches 4000 pulses each time when charged fully
3	Working hours	More than 5 hours
4	Voltage	150kV
5	Penetration	50mm Aluminium Plate
6	Weight	5.1 Kg with battery
Technical Specification – Imaging Station (PC)		
1	Type	Laptop computer
2	Processor	Intel Core i5 processor

3	Display	13 or 14" Full High Definition LED Display
4	Memory	8GB
5	Hard Drive	No less than 500GB
6	Operating system	English MS Windows 10
7	Software	Automatic Optimization, Invert, Revert, Pseudo color image, Rotate, Flip Horizontal, Flip Vertical, Zoom, Deep Focus, Polygon On screen measurement, Merge, Save, 3D image

2.EOD Robot

Model: C4I-PBC-A01
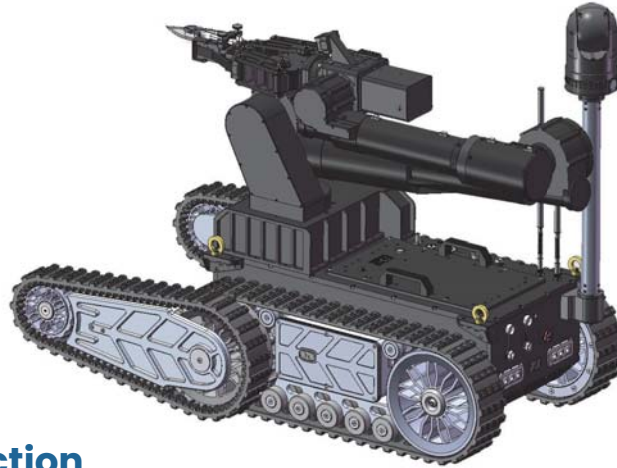
Product Introduction

This product is a remote-controlled robot specifically designed for handling explosives and hazardous materials. It has a highly flexible robotic arm and camera, which can replace personnel in carrying out bomb disposal tasks in hazardous environments. EOD robots typically have the following characteristics:

1. Remote control operation: Operators can precisely control the robot's movements through the remote control system.

2. Video surveillance: Equipped with high-definition cameras, real-time transmission of on-site images helps operators accurately judge the situation.

3. Mechanical arm: With multiple degrees of freedom, it can complete complex operations such as grasping, transporting, and disassembling.

The 6-axis design can more comprehensively adapt to the environment, such as transferring hazardous materials from garbage bins; Transfer dangerous goods from the bottom of the vehicle; Transfer hazardous materials at a height of 2.4m; Directly transfer dangerous goods inside the vehicle

4. Safety performance: The robot body is made of high-strength materials, which can withstand a certain degree of explosive impact.

5. Portability: Some EOD robots are designed to be lightweight and easy to deploy on site quickly.

This product effectively reduces the risk of explosive disposal operations and improves the efficiency and safety of handling explosives

Technical parameters

1	Size	1000*760*840mm 1000*760*1100mm(Including camera)
2	Ground distance	8cm
3	Maximum height	240cm (including installed robotic arm)
4	Maximum length of robotic arm	About 170cm
5	Total weight	About 230kg (chassis about 150kg, roboticarm about 80kg)
6	Dragging ability	150kg
7	The weight that the robotic arm can lift when expanded	About 25kg (at 17cm)
8	The weight that the robotic arm can lift when contracted	About 60KG (maximum clamping force)
9	Degrees of freedom of robotic arm	6
10	load	≥150kg
11	Chassis characteristics	track
12	Climbing angle	45°
13	Obstacle crossing ability	Height: 40cm Width: 70cm
14	Wading Depth	40cm
15	Speed	1.8km/h 3.6km/h 7.2km/h Three speed adjustable
16	Variable speed	Electronic speed regulation, infinitely variablespeed
17	Battery life	2 pcs, per 2 hours
18	Communication mode	Wireless, wired
19	Communication distance	Wireless: ≥ 600M Wired: 100M

20	Protection level	IP65
21	Video	4
22	Battery	48V50A
23	Deployment time	About 60 seconds
24	Chassis material	Aluminium alloy
25	Display	18.5 inches
26	Floodlight	Front and back
27	Lighting distance	8M

Case:

1. Transfer hazardous materials from garbage bins

2. Transfer dangerous goods from the bottom of the vehicle

3. Transfer hazardous materials at a height of 2.4m

3. C4I-400 EOD Robot

I. Product Introduction

C4I-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, C4I-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	≤830mm×600mm×460mm (Fully retracted)
		Controller size	≤360mm×210mm×70mm
		Robotic arm length	≥1700mm (Without extension joints, fully xtended) ≥ 2400mm (With extension joints, fully extended)Optional
		Robot weight	≤37kg (Including two batteries)
		Controller weight	≤2kg (Excluding backpack)
2	Mobility	Maximum speed	≥1.4m/s, (5 gear shifting, continuously variable speed)
		Vertical leaping over height	400mm
		The width of leaping over trench	400mm
		Grade ability	40°
		Climbing stairs	40°
3	Grabbing	Robotic arm flat stretch	≥6kg
		Robotic arm retracted	≥12kg
		Maximum clamping force	≥300N
		Maximum clamping width	≥160mm (Without "Widening Clamping Tool") ≥280mm (With "Widening Clamping Tool")
4	Robotic arm	No. of gripper	2
		Degree of freedom	8

		The scope of work	0°～360° rotation (horizontal plane)
		The maximum observation height	≥2600mm (The extended pole is optional)
		Maximum gripping height	≥2000mm
		The deepest observation height	≥1700mm
		The deepest gripping height	≥1100mm
		Farthest gripping distance	≥1600mm
5	Endurance performance	Continuous working hours	≥3h
		Normal working hours	≥4h
6	Monitor	No. of cameras	7
		Infrared night vision distance	≥25m
		Lighting on	automatically turn on infrared lighting under low light
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	≤0.25s
8	Control performance	Control method	Wired, wireless control
		Cable length	100m

9	Protective performance	Wireless remote control distance	≥200m ((Line of Sight))
		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 protection alarm	If the Robot is operated incorrectly due to Human 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

4.Bomb Disposal Suit

Brand: Aurora

Model: C4I-AR-II

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)	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)

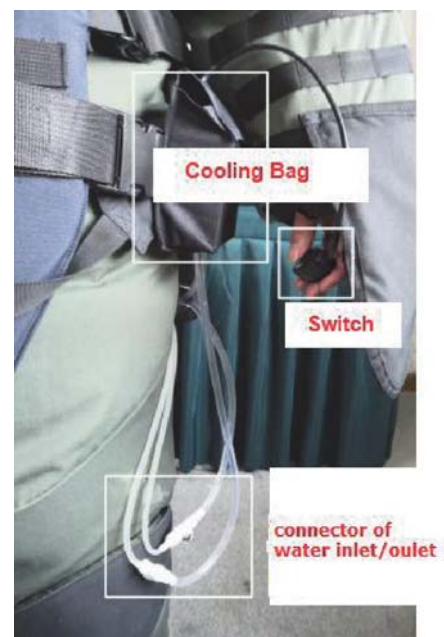|	
Bulletproof Mask	744m/s
Bulletproof Helmet	780m/s
The front of smock (Main body of smock)	654m/s
Blast plate +The front of smock	＞2022m/s
Arm (Right Arm, Left Arm)	531m/s
The back of thigh and calf (Left and Right Thigh, Left and Right Shin)	492m/s
The front of shin (Left and Right Outer)	593m/s

Bomb Suit Details

Collar - Back

Collar - Front

Right Shoulder

Left Shoulder

Main Body of Smock

Right Arm

Left Arm

Smock - Back

Smock - Front

Switch
Fixing Straps
Battery Bag
Cooling Bag with Water Bag and Blue Ice
Water Inlet/Outlet

Cooling Suit

1. **Cooling suit**

2. **Control system**

3. **Ice box 2**

4. **Charger**

5. **Hand bag**

Shoulder Strap
Cooling Bag
Waist Strap

Cooling Bag
Switch
connector of water inlet/oulet

5. Portable Wide-Band Wireless Frequency Jammer
Model: C4I-BJ-IV（5G）

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

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.

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≥1000 hours, MTTR≤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)

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.

6.EOD Manipulator

Model: C4I-JXS-IV

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,AGCON)
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

7.Wireless Remote Detonation System
Model: C4I-WRDS-01

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	13 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	More than 30minutes
Battery	9V alkaline battery
Working frequency	868MHz

8. Bomb Suppression Blanket with Safety Fence

Description

Composition: The whole set is composed of explosion-proof blanket and explosion-proof fence. The inner chip of explosion-proof blanket and explosion-proof fence is made of special materials, and the inner and outer fabrics are made of high-strength woven fabric. The fabric color is camouflage or police blue. PE UD cloth with excellent explosion-proof performance is selected as the basic material, and special sewing process is adopted to ensure the full absorption of energy generated by the explosion fragments.

Technical Specification

Explosion-proof blanket weight: 11.05kg Total weight: 25.5kg

Size: explosion-proof blanket 1600×1600(mm) Inner fence 300×450(mm) Outer fence 150×600 (mm).
Usage: When the explosion-proof blanket and explosion-proof fence are used together, the suspected explosives are covered with the explosion-proof fence, and the suspected explosives are placed in the center of the fence, and then the explosion-proof blanket is covered on it, and the explosion-proof blanket center is aligned with the center of the fence;

Application: When the 82-2 standard grenade detonates, personnel outside 1m from the explosion center will not suffer fatal injury; when the 200gTNT naked drug detonates, personnel outside 3m from the explosion center will not suffer fatal injury;

Note: When the explosion-proof blanket (fence) has been exploded, it should not be used again.

9.Non-Magnetic Tool Kit

Model: C4I-37NMT

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	150mm	
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.	Phillips Screwdriver (mm)	1	75mm	

No.	Item	Qty	Size	Image
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	

10.Search Bomb Suit

Model: C4I-SBF01

Description

The Search Bomb Suit is designed specifically for personnel searching and clearing of mines and terrorist explosive devices. Although the Search Suit does not offer the higher protection of the EOD Bomb Disposal Suit, it is much lighter in weight, provides all-round protection. It is comfortable to wear and allow virtually unrestricted movement.

The search Suit contains a pocket in the front where an optional blast plate can be inserted. This upgrades the level of protection provided by the search Suit.

Components

Helmet	Aramid fiber composite lamination
	In conjunction with the high collar, providing maximum protection
Visor	Organic transparent material(With locking device attached)
Jacket Back Chip	4 layers of 410g/m² aramid fiber woven fabrics and 10 layers of 200g/m² aramid fiber woven fabrics
Sleeves	4 layers of 410g/m² aramid fiber woven fabrics and 10 layers of 200g/m² aramid fiber woven fabrics
Trousers	4 layers of 410g/m² aramid fiber woven fabrics and 10 layers of 200g/m² aramid fiber woven fabrics
	The unique design provides freedom of movement and optimum protection to the legs
Arms	Separate adjustable sleeves providing optimum movement
Jacket	Providing front, back, side, shoulder and neck protection, with the addition of up-armoured pocket for inserting an optional ceramic plate
Groin Protector	Protected by pants

Technical Parameter

Helmet: V50–681m/s GA 950-2011 FSP 1.1g

Visor: V50 – 581m/s GA 950-2011 FSP 1.1g

Jacket Back Chip: V50 – 423m/s GA 950-2011 FSP 1.1g

Chest blast plate and chip: 1122m/s GA 950-2011 FSP 1.1g

Sleeves chip: V50 – 403m/s GA 950-2011 FSP 1.1g

Trousers chip: V50 – 420m/s GA 950-2011 FSP 1.1g

Suit weight: 13.13kg

Helmet & Visor weight: 2.81kg

Blast Plate weight: 0.76kg

Search Bomb Suit combined with Mine Detector

11. Mine Clearance Tool Kit

Introduction

The Mine Clearance Tool kit is designed for demining work. It is mainly used to clean the surface of the mine clearance operation area, and mark the acceptable area when entering the mine field,

Specifications and configuration list

1. Quantity: 18 pieces

2. Weight: 13 kg

3. Packing size: 57x47x21mm

| No	Name	Qty	Size & material	Function	Picture
1.	Hand-held pruning shears	1	Size: 220mm Opening and closing Angle: 45° opening Cutting edge material: SK5 steel Weight: 210g	Cut off branches and vines	

2.	Hand-held saw	1	Total length: 520mm Net weight: 595g	Saw off the thicker branches	
3.	Hammer with a handle	1	Weight: 1.22kg Material: High carbon steel Size: Total length 283mm, hammer length 105mm	Break up pieces of rock, concrete, etc	
4.	2" brush	1	Material: black bristle, solid wood handle Size: 2 inches	Clean the dust on the surface of the object	
5.	4" brush		Material: black bristle, solid wood handle Size: 4 inches	Clean the dust on the surface of the object	
6.	Grass clippers	1	Material: High carbon steel Total length: 54cm, blade length 18cm	Cut grass	
7.	Spade	1	Length: 31cm wide 5.6cm Cutting edge material: stainless steel	Dig up dirt and remove debris	
8.	Spade	1	Total length: 49cm Cutting edge material: carbon steel	Dig up dirt and remove debris	
9.	Insulating gloves	1	Material: Rubber	Hand protection	
10.	Mine marking signs	20	Height: 9cm, width: 6cm Color: Red and yellow	Mark a suspicious spot	
11.	Knee protectors	1	Material: External TPU, internal sponge	Knee protection	
12.	Magnet with handle	1	Length: 13.5cm, height: 9cm	attract metals such as iron and nickel	
13.	Multifunction al tool	1	Length 25.5cm, width: 6.5cm	Cut off branches, vines	

14.	tape measure	1	Self-locking Specification: 5 m *19mm	Measure length	
15.	Anvil loopers	1	18" Total length: 45cm Weight: 1.5kg	Cut off cables and steel bars	
16.	Hand file	1	Size: 200*14mm	Micromachining of metal, wood and other surfaces	
17.	Non-magnetic probe	1	Length: 50cm Material: Beryllium bronze probe, plastic handle	For underground or storage inspection	
18.	•Telescopic non-magnetic probe	1	Length: Expand 80cm, shrink 50cm Material: Beryllium bronze probe, aluminum handle	For underground or storage inspection	

12.Non-Magnetic Prodder

Model: C4I-NMP

Non-magnetic insulation

Copper-beryllium alloy   probe
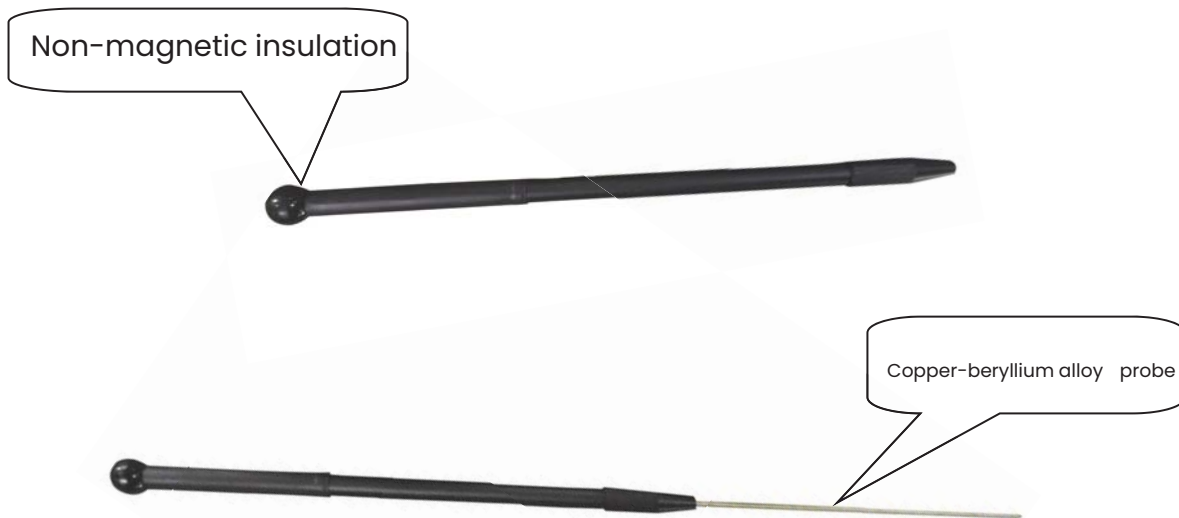
Description

The non-magnetic prodder is made from Copper-beryllium alloy which is special non-magnetic materials for detecting underground or delivery goods that increases safety factor in detecting dangerous goods. No spark will be generated in a collision with metal. It is a one-piece, foldable, sectional, mine-prodder that has been designed for easy stowage by de-mining operators when breaching minefields or under-taking mine clearance work.

Features

➢ It can be carried in a pocket or webbing pouch.

➢ It is supplied with a first guard to offer protection from blast and fragments from anti-personnel mines.

➢ It is made from copper-beryllium alloy.

➢ Telescopic prodder.

Specification

Overall Length	55cm
Probe Length	18cm
Weight	0.3kg
Probe Diameter	6mm
Probe Material	Copper-beryllium alloy
Handle Material	No magnetic insulation material

13.Remote IED Wire Cutter

Model：C4I-QXQ01

Description:

The remote IED wire cutter is a rugged, spring-loaded, remote wire-triggered, highly reliable, non-explosive cable cutter. Silently cut control lines, bomb fuses or pull control cables.

Features:

• Manual spring firing mechanism. It can cut off a variety of types of cables and pull rope.

• The blade cutting section is 14mm.

• It can cut off 0-7mm multi-strand copper core cable

• The blade can be rotated to cut off the cable with a new blade edge

• Shrinkage size of wire cutter: 40mm*255mm

• Weight of wire cutter: 650g (not including accessories)

Note:

The wire cutter should not be used to cut high voltage or power supply cables in case of shock.

14.Spherical Bomb Suppression Container

Description

(Trailer Type) Spherical Bomb Suppression Container (hereinafter referred to as product or Bomb Suppression Container) is used to inhibit the blast wave generated by explosive explosion and the killing effect of debris on the surrounding environment. This product contains a Bomb Suppression Container and a trailer for transporting explosives.

This product is widely used in airports, wharves, stations, subways, stadiums, exhibition venues, squares, conference centers, security inspection sites, passenger and cargo ships, railway trains to store suspected explosive and dangerous goods, or transfer, transport explosive hazardous objects, can also be directly destroyed in the tank. It is also applicable to the storage and transportation of initiating explosive device in military enterprises, armies and mines etc.

Features

➢ Advantages: Reasonable structure, convenient operation, safe use and reusability

➢ The explosive inside the tank exploded without loud sound and debris flying out, without any damage to the explosion site.

➢ Switch mode of explosion-proof tank cover: Manual switch and electric switch, suitable for switching under various circumstances.

➢ The trailer is equipped with a driving brake system, reverse anti-braking mechanism and signal lights to ensure safe driving.

Specification

Tank Parameter					Overall Size
Explosion-Proof Ability（Kg TNT equivalent	Tank Weight（Kg）	Gross Weight（Kg）	Dimension（mm）		L×W×H (mm)
			Inner Diameter	Caliber	
3.0	1150	1700	Φ1000	Φ700	3165X1600X1645

Control System Parameter			Overall Size
Power	Control Distance	Power Wire Length	L×W×H (mm)
AC220V±10%	30m	30m	650×280×500

15.C4I-G500 Explosion-proof Barrel

Description

The flexible explosion-proof equipment is a new generation of equipment "which can quickly and easily dispose of large equivalent explosives in a non-contact way".The flexible explosion-proof equipment is based on a complex of the super light flexible multi-layer structure made of special liquids, high-performance fiber fabrics, aerogel and super-elastic spraying materials. It can absorb high explosive energy based on principles of momentum extraction effects and large area of global deformation.

Features

▶ "Flexibility in texture"-no metallic materials: made by non-metallic flexible materials and liquid.

▶ "Flexibility in absorbency"-flexible absorbency: absorbing energy with no collateral damage under excessive explosions

▶ "Flexibility in weight"-lightweight and portable: lighter than 65 kg, portable by single man. It is equipped with a 4-wheel base designed to hold the basket securely in place.

▶ "Flexibility in handling"-easy to handle: hollow bottom with a non-contact cover for covering explosives and built-in net pocket for containing explosives

▶ "Flexibility in light"-reducing shock wave and suppressing flame: reducing shock wave and suppressing flame, avoiding explosive fire, reducing psychological harm

▶ "Super protection"-can eliminate the harms of shock wave and high-speed fragments of 500g of TNT explosives with a safety distance of 3.5 meters.

Specifications

1. Characteristic parameter:

Total weight ≤65kg, truncated cone-shaped construction, upper inner diameter ≥295mm, bottom inner diameter ≥430mm, max outside diameter ≤750mm, height ≤630mm.

2. Explosion-proof ability:

500g GTNT equivalent explosives with fragment (Φ 8 mm steel ball fragment， with TNT propellent grain weight≥500g, charge density≥1.5g/cm3, or filling quality≥200g).

3. Safe distance: outside of 3.5 m, there's no destruction fragment, the shock wave overpressure is no more than 0.03Mpa, no lethal debris can penetrate 25mm thickness of pine board, and the explosion flame is quickly suppressed.

4. service life: ≥5 years

5. Application: Airport, high-speed rail, subway, convention center, gymnasium, movie theater, exhibition hall, shopping mall, bank, school, hospital, playground and other places with relatively dense personnel. It can be used indoor and outdoor environment without requirement for indoor floor height.

T200

G500

Perspective Effect T200   Perspective Effect G500   Ten Times Magnification

Flexible explosion-proof technology series products can be used with Portable X-ray scanner

16.Laser Firing System

C4I-LD500

Description

The Laser Firing System is is mainly composed of air-cooled 500W laser, built-in lithium battery pack, laser focusing launcher, theodolite, fixed bracket, tablet computer, packaging case, etc.

It uses the wireless transmission module to transmit signals, through the hand-held control terminal in the rear of the host in the safe area of the laser transmitter to issue commands for remote detonation, in order to achieve the rapid destruction of suspicious explosives at a distance.

The principle is to focus the laser spot on the target object through an optical lens, and form a high temperature of tens of thousands of degrees Celsius near the focus of the laser spot. When the temperature rises to the inducing temperature of the explosive charge or penetrates the explosive material, causing the target to explode.

It is mainly used in military,   police, special force, public security and other departments to eliminate or leave behind ammunition, as well as ammunition items beyond the storage period. Compared with traditional explosive disposal methods, the laser firing system can significantly improve the efficiency of explosive disposal, save the cost of explosive disposal, reduce the intensity and risk of explosive disposal workers, and improve the efficiency of explosive disposal.

Features:

1. Fast assembly, which can realize the rapid expansion and assembly of the equipment within 2 minutes.

2. Far remote control distance. Remote control distance is not less than 520m.

3. The back end of the equipment is equipped with video recording and playback functions to record the scene of destruction and disposal of explosives in real time.

4. The back-end software can save screenshots of the realized screen.

5. The equipment has low light night vision function.

6. Automatic zoom design. The laser spot diameter can be automatically adjusted by driving the zoom module with different target distance.

7. Automatic camera zoom. Zoom and magnification can be manually controlled through the terminal.

8. With distance measuring function. It can realize automatic ranging and manual input target ranging distance.

9. After installation, the tablet PC can be directly connected to the host WiFi.

10. The laser power can be adjusted, and the output power can be adjusted according to different targets.

11. When the laser is emitted, the transmitting end has a sound warning.

12. With Safety control device. It is designed to ensure timely termination of laser emission and emergency shutdown function during debugging and use.

13. Stable performance, low failure rate, good safety.

14. The device is with built-in battery. It can work quickly without the external power box or with the power box.

15. It is with laser protection function.The equipment has the functions of foreign body intrusion, equipment dumping shut down laser output to protect personnel safety.

16. The main case has a battery display screen which can display the battery voltage in real time.

Parameters：

Carrying case	ABS Trolley Case
Carton size	660*510*320mm
Total weight	≤33.2KG (built-in 48V 20A battery, laser transmitter, etc.)
Camera	30x optical zoom camera; Support auto zoom, 2 million pixels; 1920X1080P resolution
Laser	Air cooled continuous transmission power ≥500W
Central wavelength	1080±10nm
Fiber length	2m
Laser power adjustment	4 gear output power adjustable
Laser beam quality	<1.2
Penetrability	The distance between the optical outlet of the equipment and the target object (304 stainless steel plate thickness 2mm ，size :150mm*150mm) is 100m. The penetration time is ≤32 s The distance between the optical outlet of the equipment and the target object (steel plate thickness 2mm，size :150mm*150mm) is 150m. The penetration time is ≤36 s . The distance between the optical outlet of the equipment and the target object (304 stainless steel plate thickness 2mm size :150mm*150mm) is 200m. The penetration time is ≤85 s Note: The penetration time is related to the size of the target and the ambient weather temperature and wind. This data is obtained in an outdoor temperature of

	26 degrees Celsius, cloudy day, humidity: 72%, wind: 3-4 (18m/s) environment
Theodolite weight	≤1.3kg
Theodolite volume	≤150*149*91mm
Theodolite load	≥5kg
Ranging distance	10-500m
Background terminal	10 "windows system industrial computer
Background terminal wireless remote control distance (open and unobstructed environment)	≥520m
Destruction action distance	50-200m
Built-in battery	48V/20AH
Charger	48V10A
Charging time	≤130min
Working time	≥30min (built-in 48V20A battery)
Tilt protection Angle	The laser shuts off automatically when the tilt is greater than 5º
Calibration and aiming function	With cross center cursor and calibration function
The theodolite head is adjustable	The rotation speed is adjustable in 9 gears and the rotation direction is adjustable in 4 directions

Penetrating effect picture

17.Underground Mine Detector

Model: C4I-UMD-II

Key Features

▶ Target detection indicated via LED display and audio tone.

▶ Three preset sensitivity levels and One key "Reset" function.

▶ Interchangeable detection heads: Halo for big area, Probe for drains & culverts.

▶ Automatic self-test and calibration for operator confidence and ease of use.

▶ Low battery indicator.

▶ 5 pieces of LED alarming indicators.

Specification

Electronic Technique	Single 2.4mm PEC double surface mounted technology, the processor is based on 8-bit 2*RISC ADC (8-bit 2*instruction set AD converter)
Battery	3 LEE LR20 Manganese Alkaline Dry cell
Battery life	10-18 hours
Packing case	ABS case
Device Weight	Halo 2.1 Kg; Probe 1.65Kg
Device Weight	12Kg (device+case)
The detecting pole length	Halo: 1080mm~1370mm; Probe: 1135mm~1395mm
Maximum Detection Range	0.05gr Stainless steel at 75mm distance from the coil head
Operating and Storage temperature	- 25ºC ～60ºC

18.Composite Mine Detector

Model：C4I-MR1

Product Introduction

The composite mine detector is developed based on electromagnetic induction and ground penetrating radar composite detection technology, and can be used to detect various landmines or unexploded ordnance buried underground during wartime and post-war mine detection operations. It can also be used in international peacekeeping, counter-terrorism, and security inspections to search for explosives, firearms, knives, etc. buried underground, in water, and in buildings, providing accurate information for the removal of dangerous goods.

Main tactical and Technical Indicators

working quality	≤4kg
Detection distance	≥18 cm (for Type 72 anti-infantry mines)
Soil adaptability	clay, sand, magnetic soil, red soil, etc.
Continuous working time	not less than 4 hours
Alarm mode	with sound, image, vibration alarm mode
sensitivity adjustment function	high, medium, and low sensitivity levels can be set
Working temperature	−40 ~ +50 ℃
waterproof (rain)	can work in medium rainfall and water depth of 1 m

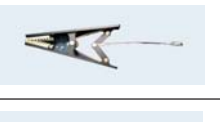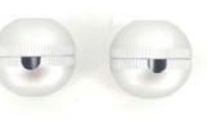# 19.The Advanced Hook and Line Tool Kit

Model:C4I-HL01

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.
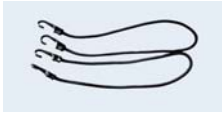
Accessories

No.	Description	Picture	Qty
1.	Reel Main Line		1
2.	Pulling Handle		1
3.	Hook, Plain Tip,1/2 inch		1
	Hook, Plain Tip, 1 inch		2
	Hook, Plain Tip,		2
4.	2 inch 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

20. Handheld Trace Explosive Detector

Description

The newly developed product is one of 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 ℃ ~ 55 ℃
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.

21. EOD & IED Electronic Stethoscope

Model: C4I-808

Description

EOD & IED Electronic Stethoscope is a kind of professional listening equipment which uses radio frequency technology to detect the suspicious mechanical displacement device in the target area.

Electronic Stethoscope can detect electronic pointer timing detonators and mechanical timing detonators hidden under various packaging coverings.Electronic detonating devices include timing detonating devices made of electronic watches, pagers and various remote control devices.It can also be used as an anti-reconnaissance security technology to detect electronic eavesdropping devices and covert video devices.It has the characteristics of high sensitivity, long detection distance, strong ability to penetrate the packaging cover, and easy to carry and use.

Features

◆ High positioning accuracy: the product adopts radio frequency listening detection technology, with the characteristics of high precision positioning;

◆ Low noise: using the built-in non-destructive sound detection technology and noise elimination technology, realistic restoration of the original sound;

◆ Human-computer interaction intuitive: LCD display sound waveform, external speakers;

◆ Open-use: simple operation, boot available;

◆ Long standby time: low power consumption, the equipment can be used for a long time;

◆ Safety no radiation: meet the national electromagnetic radiation safety requirements, absolutely safe for human body.

Parameters

Antenna polarization mode	circular polarization
Display	LCD display
Noise reduction headset	noise reduction capacity ≥-20dB (A)
Battery working time	≥10h
Battery type	lithium battery
Temperature range	-30℃~55℃
Leakage current	≤0.1mA
No shelter detection distance	Mechanical watches: ≥4.0m
	Electronic pointer type clock: ≥0.8m
	Electronic digital display clock: ≥0.8m
	Penetrating ability
Mechanical watch	100mm thick polyethylene foam +200mm thick A4 printing paper (70g)
Electronic clock	100mm thick polyethylene foam +100mm thick A4 printing paper (70g)
Electronic digital display clock	100mm thick polyethylene foam +100mm thick A4 printing paper (70g)
Product size	211mm*141mm*155mm
Weight of detection host (including battery)	0.992kg
wireless monitoring function	≥30m
Enclosure protection grade	IP65

22 .Water Jet Exploder Disrupter

Model： C4I-38A

Description

Water Jet Exploder Disrupter is an excellent EOD device used to destroy suspicious exploders. It uses hydraulic ram to destroy suspicious exploders. With triplex vibration isolating, disrupter will not normally move backwards or tumble when it's shooting. It can shoot the water and several kinds of projectiles. Disrupter is designed for simple structure, reliable performance, and easy operation. It has accurate dual laser aiming system,
recoil-reducing system and various kind of cartridge. It is one of the best in this field in the world.

Main Specification

Caliber:	38mm
Effective range: Weight:	1.5m
	17Kg
Projectile velocity:	400m/sec (approx..)

Ignition voltage/current: 9V/1A

Larger caliber barrel

Dual laser aiming system

Robust & flexible tripod