



EXPERIENCE THE DIFFERENCE  
YOUR SECURITY & SAFETY PRODUCTS

## EOD SOLUTION Catalog





# Portable X-ray Scanning System

**Model: C4I-XRY-03**



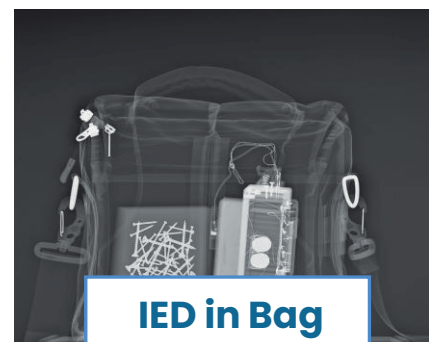
## Description:

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 less time.

## Applied Scene:

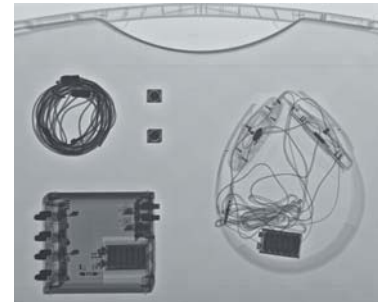
### EOD/IED:

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



## Counter Surveillance

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.



**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, 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

## Technical Specification:

A	Technical Specification of the imaging panel	
1	Detector Type	Amorphous Silicon with TFT
2	Scintillator	CsI (Cesium Iodide)
3	Imaging Area	433mm x 354mm (Standard)
4	Imaging Panel Thickness	15mm
5	Pixel pitch	154 μm
6	Pixel resolution	2816X2304 pixels
7	Pixel Depth	16 bits
8	Limiting Resolution	3.3 lp/mm
9	Dynamic range	>80dB
10	Frame rate	0.5fps
11	Network Interface	Gigabit Ethernet
12	Image Acquisition Time	4-5s (without interference)
13	Exposure Control	Auto
14	Imaging Panel Size	L460 x H430 x D15mm (with handle) L460 x H384 x D15mm (without handle)
15	Weight	3.9kg without battery
16	Outer cover	Carbon fiber plate, high-strength aluminum alloy
17	Power dissipation	<8W (standby mode) / 22W (motion)
18	Working hours	DC 24V Battery more than 5hours
19	Communication	Wired: 50 meters cable on a roller, TCP/IP Ethernet





		Wireless: Wi-Fi (802.11ac), 5745-5825MHZ; No less than 70m without interference
20	Operating Environment	Temperature: -10°C ~ +40°C
		Humidity: 30% ~ 75%RH Non-condensing
21	Storage Environment	Temperature: -20°C ~ +55°C
		Humidity: 10% ~ 90%RH Non-condensing

### Technical Specification-x-ray Generator

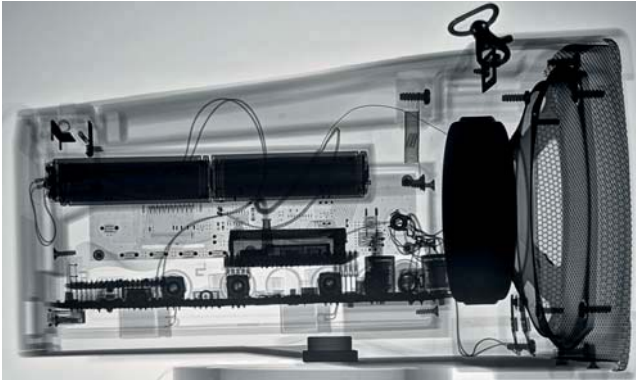
1	Operating Mode	Pulse, it launches 6000 pulses each time when charged fully
2	Maximum Emissivity	3000pulses/hour
3	Pulse Emissivity	1-99pulses
4	Working hours	More than 5 hours
	Battery	Two Rechargeable Li Ion batteries
		Charging time: one hour
5	Voltage	150kV, Pulsed (safety to operator)
6	Penetration	50mm Aluminium Plate
7	Weight	5Kg with battery
8	Safety	Key Switch, Audible & Visible alarm signs
9	Operating Environment	-10°C ~ +50°C

### Technical Specification – Imaging Station (PC)

1	Type	Laptop computer
2	Processor	Core i5 processor
3	Display	14" Full HD LED Touch Screen 360° rotation
4	Memory	4GB RAM
5	Hard Disk	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

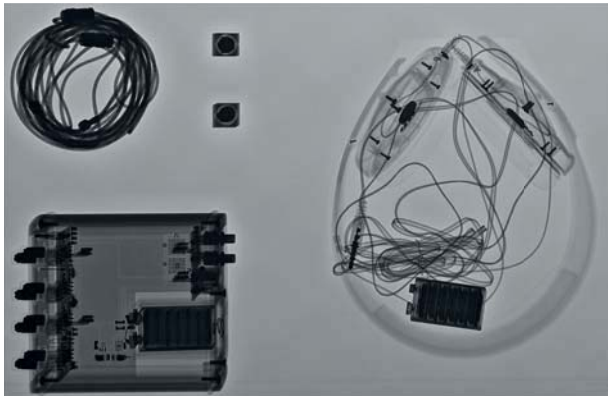


## Reality Scene-1: Parcel Inspection by Anti-Terrorist Force and Customs



IED in bag

## Reality Scene-2: Counter-surveillance

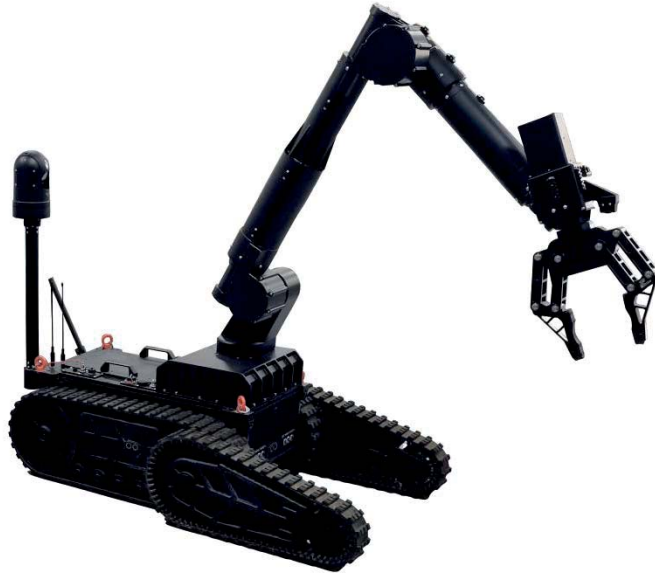


Spy bugs in bag



## EOD Robot

**Model: C4I-PBC-A01**



**EOD Robot**



**Control Box**

### Product Introduction

EOD Robot is a high-tech equipment designed specifically for Anti-terrorism, EOD, public safety and other fields. It can replace EOD personnel to perform tasks such as reconnaissance, transfer, dismantling and destruction of explosive devices or hazardous items. Through remote control, it can replace people entering high-risk environments, significantly reducing the risk of casualties, and is widely used in military, special police, firefighting, customs and other scenarios.

### Product Features

#### 1. High Flexibility and Mobility

1. All-terrain Adaptability: Equipped with a track + swing arm composite chassis, it can easily cope with complex environments such as stairs, gravel, swamps, and snow. The maximum climbing angle is  $\leq 45^\circ$ .
2. 360° Operation: It can turn in place and operate flexibly in narrow spaces.
3. Flexibility: For different operation requirements, different models of robotic claws can be replaced to perform tasks.



## 2. Precise Operation Ability

1. Multi degree of freedom robotic arm: 6-axis high-precision robotic arm, rated load of 25kg, maximum load of 50kg, end repeat positioning accuracy  $\pm 1\text{mm}$ , supports cutting, grasping, drilling, egg clamping and other operations.
2. Modular design: Adopting the modular design concept, functional modules such as water exploder disrupter, portable X-ray machine, sound wave disperser can be quickly replaced through standard interfaces, flexibly adapting to diverse task requirements.
3. Modular battery, quick change, good task assurance.

## 3. Safety and Reliability

1. Autonomous obstacle avoidance: Equipped with ultrasonic sensors, it accurately detects obstacles within 1.5 meters, automatically warns and avoids them, and has reliable obstacle avoidance capabilities.
2. Emergency protection: Equipped with a one button emergency switch, it can instantly cut off the power supply in case of operational errors or danger, providing safety assurance for equipment operation.
3. Chassis with brake, it will brake when the power is cut off..

## Application scenarios

1. **In the field of public safety:** carry out tasks such as dismantling and transferring suspicious explosives, disposing of suspicious packages or dangerous goods, and can also undertake security patrols for large-scale events.
2. **High risk operation scenarios:** It can penetrate into high-risk environments such as explosives and toxic gases, perform tasks such as cutting, dismantling, and sampling, reduce personnel exposure risks, and improve operation efficiency and safety.
3. **Military action scenario:** It can be the first to enter an unknown site to complete environmental assessment and situational investigation, provide basis for decision makers, act as a reconnaissance, surveillance, and attack role, and ensure the safety of key military facilities.
4. **In the field of law enforcement and anti-terrorism:** assisting law enforcement agencies in responding to explosive threats and ensuring the safety of public facilities and life and property during anti-terrorism operations.



## Technical parameters

Basic Parameter			
Size	EOD Robot		1000×760×840mm（Excluding camera）
			1000×760×1100mm（Including camera）
	control box		545×434×193mm
Weight	EOD Robot		Approximately 230kg
	control box		17.5kg
Display screen	10.1-inch touch screen+18.5-inch monitor（control box）		
Chassis structure	Aluminum		
Distance from ground	8cm		
Protection grade	IP65（Robot）		
Maximum height of the entire	270cm（including installed robotic arm）		
PowerandEndurance			
Batteryconfiguration	robot		50Ah
	controlbox		18Ah
Chargerspecification	Robotcharger		48V/10A
	Controlbox charger		29.4V/5A
Duration	Standbyduration（robot）		≤30h
	Worki	robot	2.5-3h，



	ng hours	control box	About 12h
	Chargi ng duration	robot	5 - 6h ,
		control box	3.5~4h
Power supply interface	Support 110VAC -220VAC, 50/60HZ AC input		
Power	robot	Standby power ≤ 70W; Low speed power ≤ 350W; Medium speed power ≤ 600W; High speed power ≤ 850W; Load capacity ≤ 2300W; Dragging power ≤ 2800W	
	control box	Working power ≤ 25W	
Application Performance			
Drive system : dual drive, rubber track size diameter 310mm * width 100mm; Double swing arm, effective length 480mm;			
Three speed transmission: Low gear: 1.57km/h (0.43m/s) (hill climbing), Medium gear : 3.13km/h(0.86m/s), High gear: 6.26km/h (1.48m/s)			
Dragging weight and Load capacity	Dragging weight	≥ 150kg  (When the maximum drag weight is reached,Correspondingly reduced load capacity)	
	Load capacity	≥ 150kg  (when the maximum load capacity is reached, the drag capacity decreases accordingly)	
Adaptive terrain	Support all-round movement, adapt to complex terrains such as stairs, gravel, mud, snow, etc., climb slopes ≤ 45 °, and have obstacle crossing ability of 40cm high and 70cm wide pit		



Perception and Operation		
Automatic obstacle avoidance	supports obstacle recognition within 1.5m and interface prompts	
Tension sensor	When the force is $\geq 2.5\text{kg}$ , the robot immediately stops	
Emergency stop function	One click emergency switch, press in case of emergency, the robot will immediately stop moving	
Lighting System	Equipped with 12 K-LED white lights (distributed at the front and rear ends), objects can be clearly seen at a distance of 5-10m in dark environments	
Camera system	Number of cameras	3 pcs (1 each at the front and rear of the chassis, and 1 mechanical arm gripper)
	PTZ camera	1 pcs, Horizontal 360 ° rotation, vertical $-25^{\circ} \sim 90^{\circ}$ , supports zooming in and out
mechanical arm	Robotic arm axes	6, each axis supports rotation around $-180^{\circ} \sim +180^{\circ}$ /up and down
	gripper	Unilateral $63^{\circ}$ , opening and closing range 0-25cm (default standard gripper)
	Grabbing ability	Rated load $\leq 25\text{kg}$ , The maximum load is $\leq 50\text{kg}$ at the longest arm extension of 170cm ,  Rated load $\leq 50\text{kg}$ , the maximum load is $\leq 100\text{kg}$ at the proximal arm extension of 5cm
	Claw accuracy Claw opening and closing	Claw egg (tactile sensing minimum trigger limit 5g 0-25cm (default standard gripper)



Function Expansion		
Quick disassembly components	Support multiple clamping sizes of grippers, scissor components, cutting and puncture components, and tactile grippers	
Equipped	capable of carrying water exploder disrupter, portable X-ray machine, sound wave disperse	
Other functions	Shouting function	Remote Shouting function is achieved by installing a stereo 3.5mm audio interface and using sound wave dispersion connection
	Monitoring function	It can monitor the sound of the robot'ssurrounding environment and output sound from the control box speaker
Communication and Control		
Image transmission frequency band	Image transmission: 420-450MHz, data transmission: 902-928MHz	
Effective image transmission distance	Wireless image transmission ≤ 890m, wired 200m fiber optic cable	
Control unit	Joystick controls walking speed, robotic arm posture, recording, lighting, sound and other functions	
Version Upgrade	Supports front-end/back-end upgrades	
Operation Temperature	-20 °C ~ 60 °C	





## 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", "X ZGripper 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) X Z 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





		Wireless remote control distance	≥200m ((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 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
		X Z-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

## 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 <sup>2</sup>
	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



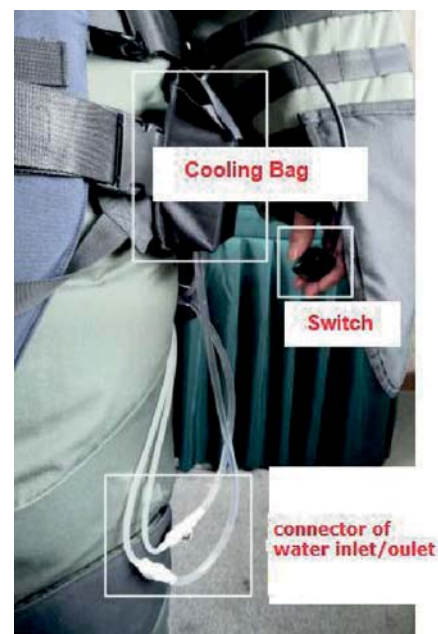






## Cooling Suit

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







# 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 $\geq$ 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)

## 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.**





## 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 claws 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
<b>Other Parameter</b>	
Working Time	5hours with built-in rechargeable battery
Operating temperature	-20°C to +45°C ; 0~98%Rh
Storage temperature	-20°C to +45°C ; 0~98%Rh
ABS Case dimension	146x38x50cm
Packing weight (device+case)	32.2kg





# 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



## 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.



## 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	

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	



## 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/m <sup>2</sup> aramid fiber woven fabrics and 10 layers of 200g/m <sup>2</sup> aramid fiber woven fabrics
Sleeves	4 layers of 410g/m <sup>2</sup> aramid fiber woven fabrics and 10 layers of 200g/m <sup>2</sup> aramid fiber woven fabrics
Trousers	4 layers of 410g/m <sup>2</sup> aramid fiber woven fabrics and 10 layers of 200g/m <sup>2</sup> 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



## 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	



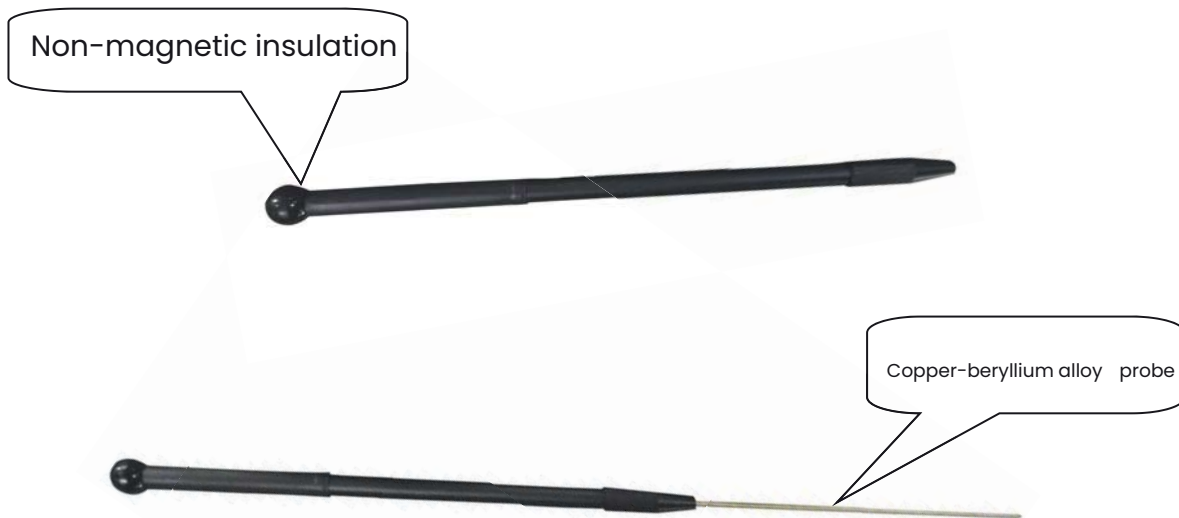
2.	Hand-held saw	1	Total length: 520mm Net weight: 595g	Saw off the thicker branches	
3.	Hammer with a handle	1	Weight: 1.22kg Material: High carbon steel Size: Total length 283mm, hammer length 105mm	Break up pieces of rock, concrete, etc	
4.	2" brush	1	Material: black bristle, solid wood handle Size: 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.	Multifunctional 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	

## Non-Magnetic Prodder

**Model: C4I-NMP**



### 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





## 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.



## 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



## 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  $\leq 65\text{kg}$ , truncated cone-shaped construction, upper inner diameter  $\geq 295\text{mm}$ , bottom inner diameter  $\geq 430\text{mm}$ , max outside diameter  $\leq 750\text{mm}$ , height  $\leq 630\text{mm}$ .

### 2. Explosion-proof ability:

500g GTNT equivalent explosives with fragment ( $\Phi 8\text{ mm}$  steel ball fragment, with TNT propellant grain weight  $\geq 500\text{g}$ , charge density  $\geq 1.5\text{g/cm}^3$ , or filling quality  $\geq 200\text{g}$ ).

**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: $\geq 5$ 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**



## Laser Firing System

### C4I-LD500



### Description

The Laser Firing System 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	<p>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</p> <p>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 .</p> <p>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</p> <p>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</p>



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



## Penetrating effect picture



# 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	25°C ~60°C

# 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 °C
waterproof (rain)	can work in medium rainfall and water depth of 1 m



# 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.





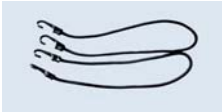
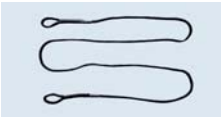
## Accessories

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.	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



## 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 °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.





## 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 $\geq -20\text{dB (A)}$
Battery working time	$\geq 10\text{h}$
Battery type	lithium battery
Temperature range	$-30^{\circ}\text{C} \sim 55^{\circ}\text{C}$
Leakage current	$\leq 0.1\text{mA}$
No shelter detection distance	Mechanical watches: $\geq 4.0\text{m}$
	Electronic pointer type clock: $\geq 0.8\text{m}$
	Electronic digital display clock: $\geq 0.8\text{m}$
	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	$\geq 30\text{m}$
Enclosure protection grade	IP65



# Dual Mode Explosive and Drugs Detector

**Model: C4I-IMS-311**



## 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
- 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

## 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	About 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 2 hours
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







# Mobile Dual Mode Under Vehicle Scanning System

**Model: C4I-UVDM-DMC**



## Product Introduction:

C4I-UVDM-DMC is composed of Under Vehicle Scanner, License Plate Recognition Camera, Mobile Server Cart, Speed Ramp and so on. All components can be packed into the Mobile Server Cart and very easy to move to the security check point. There are rugged battery installed in the Mobile Server Cart as well, which provides up to 8 hours of work time.

C4I-UVDM-DMC can effectively scan and inspect the chassis of vehicles to search and analyze for suspicious objects or contraband such as drugs and weapons. The system is ideal for government, military, transportation and corporation facilities requiring security checkpoints for vehicles such as vans, tractor trailers, buses and passenger vehicles.

Except chassis, the LPR Camera and optional Surrounding Cameras in the system can capture video clips of vehicle in different direction, provide all-round surveillance.



## Dual Mode Scanning System Introduction:

C4I-UVDM-DMC is a Dual Mode Under Vehicle Scanning System, which can generate area scan image and linear scan image simultaneously and thus have benefits from both technology.

Linear scan technology guarantee high image generation rate, regardless of harsh environment and lens contamination.

Area scan technology guarantee low distortion and consistent images for same vehicle, and make it possible for further AI algorithm.

## Advantages:

- Dual mode scanner, generate area scan image and linear scan image simultaneously.
- High resolution imaging, output 4096P color images.
- Real time imaging, scanned parts of chassis will show up on display in real time.
- Support vehicles with different height of chassis, no limitation for vehicle length.
- Embedded bi-directional triggers, support bi-directional scan.
- Bi-directional LPR function can capture and recognize both front and rear license plate(Each country has different license plate forms,which need to be communicated in advance).
- Built rugged with stainless steel, designed to withstand harsh environments.
- Provides all kinds of ISP functions, such as Brightness adjust, Saturation, Color Balance etc.
- Support high vehicle speed, up to 45km/h.
- Battery embedded in the Mobile Server Cart, which provides up to 8 hours of work time.
- 27 inch IPS 1080P monitor, help inspection details of chassis.

## Technical Specification:

Under Vehicle Scanner	
Area scan speed	Forward: 0 – 45 km/h, Backward: 0 – 15 km/h
Linear scan speed	Forward: 0 – 20 km/h, Backward: 0 – 20 km/h
Height limit	80 – 2000 mm
Width limit	< 4500 mm
Length limit	No limit
View angle	> 180°
Resolution	> 10000 x 4096
Capture rate	> 99.9%
Imaging time	Real time



Auto exposure	Support
Protector material	304 stainless steel
Load bearing	40 tones (vehicle weight)
Dimension	590mm x 300mm x 69mm
Weight	22 KG
Working temperature	-40℃ - 70℃
Protection level	IP68
<b>Mobile Server Cart</b>	
Server	CPU: i5, Memory: 4G, Hard disk: 128G
Monitor	27 inch, IPS, 1080P
Battery	48V, 11Ah
Operate time	> 8 hours
POE	8 ports 10/100/1000M RJ45
POE Standard	IEEE802.3af/at
ETH	1 port 10/100/1000M RJ45
Power supply	AC 220V
Working temperature	-10℃ - 50℃
Dimension	774mm x 677mm x 514mm
Weight	40 KG
<b>License Plate Recognition Camera</b>	
Sensor	1/2.8 inch CMOS
Resolution	1920 x 1080
Video codec	H264, H265
Image codec	JPEG
De-noise	3DNR
Dynamic range	96db
Aperture	Fixed aperture
Capture rate	> 99.5%
Power consumption	< 24W
Working temperature	-10℃ - 50℃
Protection level	IP65



# Portable Under Vehicle Search Camera

Model: C4I-PUVD03



## 1. Function and Features

- Using 7-inch HD 1080P display screen, image display is clear.
- Using high quality HD wide angle camera, the FOV is wider.
- The main mechanism adopts carbon fiber tube, which greatly reduces the weight and makes it more portable and convenient folding structure. The movable telescopic rod and universal wheel chassis allow the operator to flexibly adjust the angle when using, which is very convenient and labor-saving.

## 2. Application Fields

- It is used to check whether there is contraband in parking cars at sports, important meetings, local police stations, hotels, large factories, stadiums, cinemas, theaters, conferences and so on.
- It is used for airport security, parking inspection, military area inspection, private car inspection, etc

### 3. Technical Parameters

Screen	LCD Screen	7.0 inch color
	Display Resolution	1920*1080
	Display Brightness	800 cd/sqm
Camera	Image Sensor	1/2.9" CMOS
	Minimum Illumination	0.01 Lux@F1.2; Black and white 0 Lux (IR open)
	Signal / Scan system	PAL / Progressive scanning
	Electronic shutter	Auto/Manual (1/5-1/50000 second)
	Day-night mode	ICR filter
	Fixed-focus lens	1.8mm
	IR Distance	10m
	Horizontal speed	Horizontal 355° continuous rotation,
	Vertical Speed	speed 0-25°/s Speed 0-20°/s
	Vertical range	0-90°
	FOV	Horizontal: 140° / Vertical: 120°
	Maximum Image Size	1920*1080
	Power Supply / Consumption	DC 12V 1A 10W
	Operating temperature and humidity	-10℃ ~ +50℃, ≤90%RH (No condensation)
Power System	Battery	2600mah*2
	working voltage	12v
Appearance	Folded dimension	740x220x180mm
	Expanded length	1940mm
	Net weight	1.8kg



## 4. Real shooting pictures







# Hazardous Liquid Detector

**Model: C4I-LIS03**



## Description:

Hazardous Liquid Detector is a security device designed for examining the safety of liquid in sealed containers. Without opening the container, security personnel can receive instant feedback from the device and make decisions about whether the liquid is hazardous to public safety or not.

With its high level of performance and precision and without complicated operations, Hazardous Liquid Detector can instantly give results from the liquid with one single scan, which makes it compatible and efficient for security check in public places with large amounts of people, especially for airports, train stations and government agencies.

## Features:

- ▶ Inspection without opening container
- ▶ Have the ability to detect non-metal and metal containers simultaneously
- ▶ 1-second minimum for inspection, adaptable to public with heavy streams that require efficiency.
- ▶ Low False Alarm Rate
- ▶ Harmless Operation for Human Body

- ▶ Easily Noticeable with Sound/ Signal/ LCD Alarm.
- ▶ Maintenance and Adjustments Unneeded
- ▶ Waterproof & Fireproof Metal Shell
- ▶ Alarm reset: The device can reset automatically after an alarm for the next detection
- ▶ With power on self calibration function
- ▶ Automatic Counting Function: It can automatically calculate the amount of liquid detected in the current day

## Technical Specs:

Inspection Object	Flammable, explosive and corrosive dangerous liquid
Container Material for Inspection	Plastic /Glass/ Metal/Pottery
Container size for Inspection	Plastic/Glass/Pottery: 50mm ≤ diameter ≤ 170mm
	Metal: 50mm ≤ diameter ≤ 80mm
Detectable Effective Distance	The liquid is 30mm away from the bottom of the container
Inspection Time	Plastic/Glass/Pottery container, 1s; Metal, 6s
Liquid Volume for Inspection	≥100ml
Alert Type	Sound/ Signal Light/ LCD Display
	Green light with a short alarm shows safe liquid
	Red light with buzzer sounds for long time shows dangerous liquid
Start Time	5s
Language	English
Detection Technology	Ultra wide-band pulse reflection method and Thermal conductivity measurement method



Data Storage	100,000 pcs of inspection results
Data Export	Export data to PC to read and analyze by USB port
Relative Humidity	0-99% Non-condense
Operating Environmental	0-40°C
Shell Materials	ABS + Stainless
Weight	5.4kg
Size	390×360×140mm
Power Supply	AC100-240V(50/60Hz)
Power Consumption	<10w
Carrying Case	Anti-water and Anti-shock ABS case

**Detectable types of Liquid:**

Gasoline, Diesel oil, Nitromethane, Ethylene dichloride, Toluene, Benzene, Nitrobenzene, Acetone, Methanol, Ethanol, Ethylene glycol, 70% Isopropanol, 40% Acetaldehyde, Ether, Isopropyl ether, Banana water, N-hexane, 70% Ethanol, Epoxy propane, Paint, Rosin water, Paint thinner, Turpentine, Sulfuric acid, Hydrochloric acid, Nitric acid, 30% Hydrogen peroxide, N-pentane, Acetic acid, Oleic acid, Kerosene, Xylene



## Under Vehicle Search Mirror

**Model: C4I-CD-2**



### Features

- The handle is made of aluminum alloy material which is light and high-strength, capable of long-time operation.
- Convex mirror is made of strong acrylic material, it is safe and light
- Rod 180° design, maximum limit detecting vehicles and others objects
- The material of mirror has high-strength plastic protection, to prevent the mirror from being scratched.
- Front-end LED light bar Mosaic design, energy saving, waterproof, easy to work at night
- The handle is telescopic, it can be extended rapidly.

### Application

1. Gym -- check every chair in the gym for explosives.
2. Theater --venue ----- check every chair in the theater for explosives.
3. Hotels -- mainly the public security personnel check the rooms that senior leaders are going to stay in, and check whether there are explosives, pinhole cameras and other prohibited items on the ceiling.

in, and check whether there are explosives, pinhole cameras and other prohibited items on the ceiling.



4. The bottom of the car ---- this is the most common place where terrorists commit crimes, so it is also the public security personnel to use the mirror to check whether there are explosives under the car.

## Technical Parameters

Pole length	42-110 cm adjustable
Pole Material	Aluminum Alloy
Weight	3.25kg/piece
Mirror size	30*30 cm square convex mirror
Mirror material	Acrylic plastic
Illumination	Front-end LED light bar
Bottom	With 4 rotation wheels



## Telescopic inspection Mirror

**Model: C4I-TM**



### Feature

- The device has high flexibility.
- It is easy to be carried and operated.
- It can be used at night as equipped with flashlight.
- The handle is telescopic.
- The angle of the mirror can be adjusted.

### Specification

Length of Telescopic Pole	560mm-1770mm Adjustable
Diameter of Mirror	150mm
Material of Mirror	Convex mirror surface
Power Supply	Alkaline battery, working up to 7 hours continuously.
Weight	0.7kg





## Portable Walk Through Metal Detector

**Model: C4I-1313**



### Features:

1. Potable, Install and disassemble within 5 minutes.
2. There are three individual detect zones.
3. Head-to-Toe, Zone Specific Detected.
4. Self test and Self calibration once power on.
5. LCD touch screen, simple operation.
6. 300 adjustable sensibility levels.
7. The battery can continuous working for 40hours.
8. It is made of ABS Polycarbonate alloy material, strong impact resistance and permanent
9. Digital I/O keypad with security access control, Brilliant LED Bar Graph Indicates.
10. Multi-doors can be put side by side at intervals without mutual interference.
11. Automatically recording number of people passed and alarming times.
12. Independent detection and LED displaying on the right, center and left zone.
13. High capability of anti-interference: the adoption of digital,analogy and left and right can prevent false or omitted alarming,which greatly enhance the capability of anti-interference.
- 14 Low intensity magnetic field that is harmless to heart pacemaker installed in human body, pregnant women, magnetic floppy, recording tapes and more.



## Technical Parameters:

Operating temperature	-20°C to +70°C
Relative Humidity	95%, non-condensing
Protection Level	IP55, UV protection
Folded Dimension	L950 x W600 x H620mm
Passage Dimension	L810 x W790 x H2120mm
External Dimension	L810 x W1180 x H2240mm
Packing Dimension	L1065 x W675 x H705mm
Net Weight	35kg
Gross weight	56kg
Certificate	CE



# Mobile Electronic Device and Metal Detector

**Model: C4I-5000**



## Description

C4I-5000 adopts ferromagnetic detection (FMDS) technology, which is adept at detecting small and hidden hazards, especially effective in data-recording device as well as small weapons like mobile phones and knives. The mobile electronic device and metal detector has a partition display function, which makes it easier to find the location of contraband and improves work efficiency.



## Features

- 1. Superior Detection Capabilities:** More accurate, sensitive and reliable than traditional metal detectors or hand-held security detectors, capable of detecting all types of electronic products as well as metals like guns, mobile phones, recording devices, hard drives, hand trackers, etc.
- 2. Partition Display:** The location of ferromagnetic objects or contraband can be displayed in FIVE (5) zones, making it easier to find.
- 3. Fast charging:** This model is equipped with a large capacity 27AH lithium battery as power supply, and less than 3 hours to be recharged fully.
- 4. Easy Installation:** It weighs only 20kg and can be moved to any position with the included base, and it can be wall-mounted too.
- 5. Easy to Use:** Sensitivity can be adjusted quickly and easily to meet the detection requirements for screening personnel with different security levels.
- 6. 100% Safe:** It is a passive detector without any kind of radiation and absolutely safe for everyone, including pregnant women or those with implants.
- 7. Maintenance-Free:** Unlike other technologies, it requires no calibration, no annual battery replacement and no maintenance.
- 8. Concealed Screening:** Can be placed behind objects, doors, and walls made of concrete, drywall, cinder blocks, and steel studs to realize invisible searching.
- 9. High Flow Function:** Screens up to 40 people per minute and thousands of people on a single charge.

## Technical Specs

System Structure	Column, movable	
System Setting Mode	Touch buttons. Setting parameters: sensor sensitivity, alarm range, audio volume, voice volume, light brightness, delay setting, alarm switch, etc.	
Number of Fluxgate Sensors	Five	
Intelligent Alarm	Non-magnetic metal objects passing by without alarming	
Detection Function	Omnidirectional 360 degree	
Alarming Mode	A. Light alarming / B. Audible Alarming	
Light Alarming	Green Light and Red Light	
Buzzer Volume	0 to 100 dB	
Detecting Distance	0~2 m	
Waterproof Level	IPX4	
Detection Sensitivity	Digital control, multiple levels adjustable	
Anti-Interference Ability	Automatically adapt to surrounding electromagnetic interference	
Reset Time	0.2s	
Power Supply	Rechargeable Li Battery	Working Time ≥ 24hours
	AC Power	AC 100~240 V, 50/60Hz
Working Environment	-20℃ ~ 70℃	
Relative Humidity	0 ~ 95%	
Height of Pole	177cm	
Height of Complex device	180cm	
Weight of Complex device	20kg	
Packing Dimension/Carton	Pole: 188*20*17 cm / Weight: 7kg Base: 70*39*30 cm / Weight: 14.5kg	

## Video Endoscope

**Model : C4I-NKJ-5P**



### Description:

The video endoscope is used to observe whether there are suspected contraband and hidden personnel in small dark spaces, and also to observe the situation in houses or other spaces that are not easy for personnel to enter. It is suitable for public security, armed police, fire protection, procuratorate, customs and other security departments to conduct security check, explosive disposal, anti-smuggling, criminal investigation, search and rescue, etc.

### Specifications

Probe diameter	Φ5.5mm
Pixel	450,000
DOF	10~80 mm
Field angle	80°
Sensor size	1/9
Lighting mode	LED lighting
Brightness adjustment	7 levels manually





Illumination	60000lux
Effective working length	1050mm
Probe tube material	wear-resistant, oil-resistant, anti-corrosion tungsten wire woven net
Bending control	360° bending in any direction
Shell material	ABS
Display	5-inch TFT highlight display
Image resolution	480*854
File format	The image is in jpg format and the video is in avi format
Image magnification	Real-time image up to 8 times magnification
Image preview	View, delete, and time watermark operations can be performed in preview mode
Menu language selection	Chinese, English, Russian and other 12 languages are optional
Storage medium	Standard 32G capacity TF card
Guidance control	Mechanical damping rocker
Host size	280mm*130mm*105mm
Host weight	About 490g (including battery weight)
Protection level	Host IP55, probe IP67
Working voltage	4.2VDC
Working time	About 3.5 hours on a single battery
Power supply	2 3.7v3500mah 18650 lithium batteries
Charging method	Host type-c port charging, 18650 battery external charging
Host system operating temperature	-10°C - 60°C
Video probe operating temperature	-10°C - 70°C
Storage temperature	-20°C - 60°C
Relative humidity	15% - 90%



## Configuration list

S.N	Item	Quantity
1	Video endoscope	1
2	Battery	2
3	Charger	1
4	Memory card	1
5	Cable	1
6	Card reader	1
7	Manual	1



## Telescopic IR Search Camera

**Model: C4I-TPII**



### Description

The telescopic IR search camera is a highly versatile which is designed for the visual inspection of the illegal immigrants and contraband in the inaccessible and out-of-sight areas such as upper floor windows, sunshade, under vehicle, pipeline, containers etc.

The telescopic IR search Camera is mounted onto a high-intensity and lightweight carbon fibre telescopic pole. And the video will be changed to black and white in very low light conditions through IR light.

## Technical Parameter

Sensor	Sony 1/2.7 AHD
Resolution	1080P
Gain Control	Automatic
Backlight Compensation	Automatic
Lens	Water-proof, IR lens
Display	7 inch 1080P HD screen (with sunshade cover)
Memory	16G (Max. 256G)
Power	12 v
Material of Pole	Carbon Fibre
Length of Pole	83cm – 262cm
Total Weight	1.68kg
Packing Materials	ABS water-proof & water-shock case



## Hand-held Raman an Detector

**Model: C4I-Raman-II**



### Description

Handheld Raman Detector is an integrated portable rapid detection and analysis equipment. Through Raman spectroscopy technology, rapid qualitative detection of common drugs, explosives, flammable and explosive dangerous chemicals can be achieved to meet the requirements of on-site and mobile detection.

### Technical Specs

1. Spectral Resolution:  $5.7\text{cm}^{-1}$ ;
2. Spectral Range:  $(117-3522)\text{ cm}^{-1}$ ;
3. Weight: 508g;
4. Line width of light source: 0.056nm.
5. Central wavelength of light source: 784.89nm.
6. Detection time: 9s.
7. Sensitivity: characteristic peak detection.
8. Light source output power: output power 510.2mW, and continuously adjustable.



9. Laser wavelength stability: 0.05nm.
10. Frequency shift repeatability: 0.00cm<sup>-1</sup>.
11. Frequency shift value error: 1.58cm<sup>-1</sup>.
12. Working temperature: 5°C ~ 40°C.
13. Working humidity: humidity ≤80%.
14. Working power supply: built-in rechargeable lithium battery, with battery power display, visual display of the remaining battery power, to ensure that the working time about 5 hours.
15. The instrument needs to have an external trigger detection button.
16. Screen: 5.2 inch LCD screen.
17. Test sample form: constant solid, powder, film, liquid.
18. SNR: 600:1@100ms.
19. Electronically controlled laser shutter, 2048×64 pixel CCD.
20. Raman special frequency stabilization laser, 8-hour power stability is better than 1%; Temperature stability ≤0.01nm/°C.
22. The spectrometer detection integration time and laser power is adjustable, integration time 1ms-30min.
23. Ruili scattering up to depth OD>8.
24. Spectral intensity repeatability ≤0.1%.
25. Thermal stability drift ≤1cm<sup>-1</sup>.

## System Software

1. Detection management: The category of detection items is clear, the software is simple to operate, the test results can automatically identify the test results.
2. The instrument has automatic calibration function.
3. All test results can be automatically compared by the instrument.





4. The software operating system is simple and suitable for non-professionals to use.
5. The software supports self-built detection classification, and can flexibly set common detection categories according to needs, and can set multi-level detection classification.
6. The test results can be automatically saved and can be queried in chronological order, the test record should contain the sample description, test results, test time, operator, sample photos (the equipment can take photos directly).
7. The software test results provide the optimal item of pure sample matching and the list of suspected mixtures that may exist.



## Non-linear Junction Detector

**C4I-801**



### Brief introduction

C4I-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:

parameter	Technical index
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	4H



Battery type	Replaceable lithium battery,
Charging time	2.5H
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)
Outer box size	700(L)*330(W)*180mm(H)
Product weight	1.6kg
working temperature	-30C ~45 C
Working humidity	No more than 92%, no condensate



# Vehicle Chassis Detection Robot

**Model: C4I-001**



## Introduction

The vehicle chassis detection robot is a detection device that combines multiple technologies such as machine vision, image recognition, and intelligent car control. Through wireless control of the robot's motion on a flat panel, it can easily inspect the real-time condition of the vehicle bottom, greatly reducing inspection time, effectively reducing work intensity, and improving inspection efficiency. Used to inspect the chassis of various vehicles, it can carry out safety inspections on stations, docks, airports, venues, etc., or inspect the interior seats of trains and airplanes. It can be widely used in car maintenance, modification inspections, large-scale event security checks, explosion-clearance under the car, customs anti smuggling, public security investigations, etc

## Features

- High definition white light+infrared thermal imaging dual cameras
- All-round real-time monitoring without dead ends
- Intelligent wireless control terminal operation
- Laser radar ranging, intelligent avoidance



- All-wheel drive control
- Larger load capacity and smooth driving
- Flexible and convenient operation

## Product Parameter

Robot body weight	3.9Kg
Controller weight	1.1Kg
Body size	300mm*289mm*100.6mm
Controller size	285mm*164mm*51.5mm
Camera rotation	0-72 degrees overhead rotation
Maximum speed	750mm/s
Maximum obstacle height	14mm
Load weight	2.5Kg
Operating voltage	22.2V
Working hours	4~6H
Maximum climb Angle	24 degrees
Maximum control distance	Open environment>100m, complex environment around 50m
Lighting	6 high brightness LEDs
Display	8.8 inches(resolution 2560 * 1600)
Driving camera	4 million pixel high-definition camera+thermal imaging probe
Protection level	IP53, customizable IP65
Movement mode	forward/backward/left/right translation/counterclockwise/clockwise rotation in place

## Hand-Held Metal Detector



### Technical Data

Power supply	9 V Alkaline battery
	9V NiMH rechargeable battery
Operation time	9V Alkaline battery: up to 80 hours
	9V NiMH rechargeable battery: up to 40 hours
Net weight	409 g
Dimension	L415mm x W85mm × T40mm
Alarm Mode	Audible, Light, Vibration
Operation temperature	-20°C~65°C
Relative Humidity	0~95% Non condensation
Super High sensitivity	Yes
Operable by pushing one button	Yes
Visible indicator of low battery charge	Yes



# Telescopic Pole Camera

Model: C4I-VD50



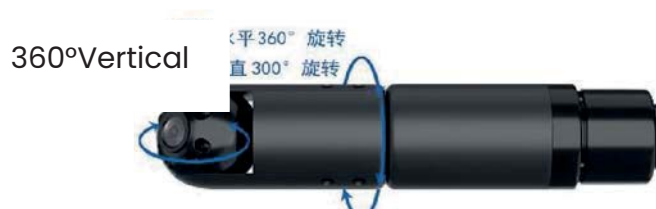
Carbon fiber telescopic pole

## Features

1. 2 million HD color camera with night vision.



2. Rotating probe, horizontal rotation 360 degrees, vertical rotation 300 degrees, full-view observation;



3. The lightweight carbon fiber telescopic probe rod makes the inspection more flexible, extended length is 3.5 meters long and unextended length is about 1.15 m long.

4. 7 "color LCD display reflects clear and eye-catching images, with camera and video storage function, record at any time;



5. Lightweight and portable design. It adapts to multiple environments. Multi-angle comprehensive inspection;
6. High brightness lighting source, infrared light source, which can ensure normal use in the dark environment;

## Parameters

Probe	
imaging sensor	High resolution 1/3" Sony CCD HD probe, DSP color processing
Resolution	2 million pixels
Minimum illumination	0.01lux;
Synchronizing system	internal synchronization
gain control	automatic
Signal Noise Ratio	More than 46dB;
Electronic shutter speed	Automatic (PAL: 1/50-1/100, 000 s) ;
Video output	1.0Vp-p 75Ω;
Camera parameter	
Backlight compensation	automatic adjustment



Resolution of lens	1920*1080
Angle of view of the lens	≥125°
Camera rotation	Horizontal rotation 360°, axial rotation 300°★
Control mode	Electric remote control
Auxiliary light exposure distance	≥3m
Auxiliary light exposure area	Visual area 80%
<b>Lighting source and telescopic pole</b>	
Light source type	IR LED
Lighting method	8 LED auxiliary light sources, can work in full black environment
Telescopic pole material (optional)	Carbon fiber
Expansion length (optional)	3.5m
Transmission line	Built into the telescopic pole (more than 5 meters in length external line)
<b>video system</b>	
Display size	7 "color high definition LCD display
Brightness	350cd/m²
observation	Mirrorable observation
Angle of display	Up and down 180 degrees, adjustable Angle



Scale plate	With ruler reference comparison function, can be turned on and off through the menu
Negative film	With color negative film function, can be turned on and off through the menu
<b>Stored record</b>	
image storage	Video AVI, 1920*1080, Picture JPG, 1920*1080 (16:9)
Memory card	16G TF card (Expandable to 128GB)
Amplification	Supports image magnification in preview mode
loop video	Three minutes, ten minutes, fifteen minutes
Function	Take pictures, video, zoom in and out, scale, negative film
<b>Power supply and others</b>	
Rechargeable batteries	Nominal voltage 12V, capacity 10Ah;
Working hours	It can work continuously for 6 hours
Image output mode	AV output, USB2.0, HDMI HD output interface, can be transferred to the large display screen to watch.
Dustproof and waterproof class	IP65
Operating temperature	-20℃—60℃;
Operating relative humidity	10%—85%;
Language	Chinese/English



## Non-linear Junction Detector

Model: C4I-802

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### Product Introduction

This product is a miniaturized portable Non-linear Junction Detector that can detect electronic devices hidden in walls, floors, ceilings, lighting fixtures, furniture, or containers. Regardless of whether these electronic devices are emitting signals or turning on/off, they can be alerted through various ways such as display, sound, and vibration, allowing detection personnel to find the target device and protect organizational and personal privacy.

Widely applicable to government, public security, prisons, judiciary, military, education and examination, commercial security, and personal privacy protection:

- (1) Enterprise trade secret protection: detecting unauthorized electronic devices hidden in important meeting rooms or confidential offices of the company, such as listening devices, mobile phones, and SIM card devices;
- (2) Public security special police bomb disposal: detecting electronic detonation devices and remote controls in dangerous areas;
- (3) Personal privacy protection: devices used for secretly filming and recording hidden in residential areas, hotels, and other places, such as voice recorders, cameras, etc.



## Technical parameters

Product operating frequency band	2.400GHz
Frequency range	2.404GHz-2.472GHz
Receiving 2nd to 3rd harmonic range	4.808GHz-4.944GHz; 7.212GHz-7.416GHz
Pulse mode transmission power (maximum)	0~1W (ERIP)
Receiver sensitivity	≤ -125dBm
Battery life under maximum power consumption	3 hours
Battery Type	Lithium Battery
Penetration	capable of penetrating 370mm brick walls, meeting the C-level product requirements of GA1236-2015 standard
Interactive interface	LED displays the received harmonic signal strength; Supports audio prompts and can be connected to headphones; Support vibration prompts
Product size	(370mm×96mm×38.5mm) ±5mm
Outer box size	(355mm×295mm×165mm) ±10mm
Product weight	≤0.52kg±0.05kg
Working temperature	-20℃~55℃
Working humidity	not exceeding 93%, no condensation water



## Product advantages

1. High positioning accuracy: The product adopts 2400MHz RF detection technology, which has the characteristics of high-precision positioning.
2. Strong semiconductor recognition capability: The built-in spectrum analyzer that supports second and third harmonic detection can quickly and effectively identify devices and equipment containing semiconductors.
3. High sensitivity: Equipped with a built-in high gain antenna, it has a large detection distance and high flexibility, especially for SIM card devices, ensuring that secret recording and mobile communication devices can be quickly detected.
4. Low false alarm rate: The built-in non-destructive detection algorithm greatly improves the detection capability, with an extremely low false alarm rate.
5. Safe and reliable: The equipment characteristics meet the requirements of electromagnetic radiation and are absolutely safe for the human body.
6. Flexible and simple operation: small size, flexible operation, simple and intuitive interface, few and concise buttons, easy for manual operation, and good user experience.
7. Power saving: Folding will automatically shut down and staying still for a long time will automatically shut down, saving power .

# Mobile Phone Signal Jammer

Model: C4I-CPSB-III(5G)



## Description

The mobile phone signal shielded from the low to high end frequency during the working process. The scanning form garbled -weight interference in the mobile phone receiving message signal.

Mobile phone signal jammer can be used for indoor places where needs signal shielding, such as: test rooms, classroom, conference room, government VIP rooms, etc.

## Technical Specification

Types of shielded signals	2G, 3G, 4G, 5G, Wi-Fi, Bluetooth, etc
frequency band	3400-3500MHZ



	2010-2025MHz
	5150-5350MHz
	859-894MHz
	2515-2600MHz
	1805-1920MHz
	2600-2675MHz
	758-803MHz
	894-960MHz
	3500-3600MHz
	2110-2170MHz
	1805-1920MHz
	5750-5850MHz
	2300-2500MHz
Input voltage	AC 170-250V
Shielding range	Radius 5-10 m (field strength -85dBm)
Shielding direction	omnidirectional 360°
Device power	maximum 275W
Transmit power	single channel average 10W
Output channels	14 channels
Host size	434*204*98mm
Host weight	5.3kg
Antenna size	Φ18*300mm
Antenna weight	0.1*14=1.4kg



Adapter size	260*76*40mm
Adapter weight	1.56kg
Packing size	60*34*20cm
Packing weight	12kg

## Application Scene



Exam Room



Conference Room



## Wireless Signal Detector

Coverage 2 G/ 3 G/ 4 G/ 5 G signal 2.4G& 5GHz Wi-Fi/Bluetooth



### Description

Wireless signal detector is a very reliable wireless signal environment security detection and inspection equipment , supporting the coverage of 2G / 3G / 4G / 5G signal 2.4G Wi-Fi and Bluetooth wireless communication standards and protocols as well as other power frequency and communication protocols. With the characteristics of small and portable, high sensitivity and high accuracy, it is suitable for various wireless eavesdropping, thieving and tracking devices in military industry, government, banking and finance, business and travel hotels, private residences and other scenes.





## Feature

- Detects 2G/3G/4G / 5G devices, as well as WiFi/Bluetooth/2.4GHz and 5GHz devices.
- Detect mobile phones, smart phones, GSM spy phones, Bluetooth and Wi-Fi enabled spy
- Detect GSM bugs, GSM detectors, GSM alarms, GSM/GPRS/EDGE/3G wireless cameras.
- GPS tracker.
- 3G/4G/5G video.
- Separate detectors for the 2.4GHz bands
- Bluetooth listening devices, Wi-Fi/Wi-Max listening devices, Bluetooth and WiFi devices, WiFi/ Bluetooth/video and other latest generation devices, storage and forwarding devices.
- 2.4GHz wireless camera device, can identify and locate WIFI 2.4G hotspot and terminal equipment.
- Can identify and locate BLE Bluetooth terminal devices, including Tag trackers such as AirTag and Huawei Tag.
- 4.3 "color TFT capacitive touch display for easy to use menu-driven operation.
- Warning mode of sound signal intensity.
- Machined aluminum enclosures for maximum durability.
- Internal lithium polymer battery pack.



(WiFi- Routing, terminal and unconnected device location)

## Technical Parameters

- ❖ The detection frequency ranges from 100MHz to 6GHz.
- ❖ Up to 12 displayable frequency bands (including domestic 2G/3G/4G/5G and WIFI, Bluetooth).
- ❖ Sensitivity - up to 85dBm.
- ❖ Display: TFT color 4.3 "high contrast graphic display.
- ❖ Battery: internal lithium polymer rechargeable.
- ❖ Running time: 6 hours on full charge.
- ❖ Charging time: 4 hours.



# 140KW Handhel Backscatter X-ray Imaging System

**Model: C4I-BXA10 0**



## Description

The C4I-BXA100 handheld backscatter X-ray imager is a device that uses X-ray backscatter technology to conduct imaging and detection of the internal structure of the inspected objects. It has strong penetration capabilities and can perform high-sensitivity, rapid, non-destructive imaging and inspection without contact. It can efficiently detect suspicious items such as explosives, drugs, controlled knives, pistols, and smuggled goods, which are prohibited and dangerous items. With an integrated design, it is easy to carry and can effectively meet the inspection requirements for various tasks such as security checks, bomb detection, drug control, and confidentiality. It can also be widely applied in places such as customs investigation, borders, ports, and important gatherings.

## Features

- Small in size, with single-side imaging, suitable for areas such as walls, vehicle bodies, cabin interiors, and furniture compartments; It can also be used in certain narrow spaces at special locations;
- Compact in size and lightweight, easy to hold with one hand;
- Low radiation, causing little harm to the human body;
- Strong penetration ability, up to 140KeV, capable of penetrating 7mm thick steel plate;
- Easy to operate and flexible, can freely control the scanning path and range;



## Specifications

Weight	≤5.6kg
Size	288 * 185 * 246.7 mm (including handle)
Penetrating ability	It can penetrate homogeneous steel plates with a thickness of no more than 5mm, and can display organic substances such as plastic blocks in a high-contrast from.
Tube voltage	140kV/10W
Detection capability	Explosives and improvised explosive devices, drugs, liquids, organic substances
Scanning speed	≥15cm/s
Image method	Real-time imaging
Radiation dose	Directly behind the equipment, at a distance of 5 cm from it, the surrounding dose equivalent rate is ≤ 0.2 μSv/h
Display screen	8-inch LCD color touch screen, with image resolution of 1920*1208-inch LCD color touch screen, with image resolution of 1920*120
Maximum scanning time	30s
Working environment	Temperature: 0 - 40°C, Humidity: ≤ 93%RH
Battery life duration	≥4h

## Application scope

The C4I-BXA100 handheld backscatter X-ray imager is compact in size and easy to operate. It can quickly inspect dangerous and prohibited items in locations such as the interiors of car tires, inner layers of vehicles, cabin interiors, suspected packages, wall interiors, furniture compartments, and certain narrow spaces. It can efficiently meet the inspection requirements for various tasks including security checks, bomb detection, drug control, and confidentiality. It can also be widely applied in customs investigations, borders, ports, and important gatherings and events.



## Threat Trace Detector



### Product Introduction:

Threat Trace Detector is miniaturized mass spectrometry (MS) detector targeted for multiple threats identification. Equipped with non-radioactive ionization source system, it enables rapid and accurate detection of explosives, narcotics, new psychoactive substances (NPS), toxic industrial chemicals (TICs), chemical warfare agents (CWAs) and etc.

Taking advantage of mass spectrometry technology, it is of extremely high accuracy and low false positive. It also features the most comprehensive material library of explosives, narcotics and other emerging threats, including varied explosives of homemade, commercial, military use, drugs, precursor chemicals, spirit drugs, synthetic opioids, fentanyl and fentanyl analogs. It is applicable to vital checkpoints such as aviation, Customs and border, and also used as evidence inspection tool by law enforcement departments.

### Product Performance:

Mass spectrometry, gold standard in chemical analysis

Full-range library, hundreds of kinds of substances: Accessible for customized library

Non-radioactive ionization source

Tandem mass spectrometry available and greater performance in verification

High sensitivity and selectivity

Rapid detection in seconds

Auto-calibration, auto-cleaning, audio and visual alarm

Excellent human interaction design and equipped with 10.1-inch capacitive touch display

Unlimited expansion of storage space, and availability of various data interface and supporting software

Access to remote diagnose and software auto update better and fast after-sale service

## Application



## Product Parameters:

Explosive Library	Most homemade, commercial and military explosives, such as TNT, RDX, BP, NG, PETN, TATP,AN and etc.
Narcotic Library	Wide Range of narcotics, precursor chemicals and spirit drugs, including meth, heroin,cocaine,THC,NPS, fentanyl, JWH-018, butanone, ephedrine and etc.
Substance State	Powder, crystal, opioid, liquid, vapor and etc.
Sampling Mode	Swab or sniffing without pretreatment
Detection Time	In seconds
False Positive	<0.1%
Sensitivity	Picogram level ( $10^{-12}$ g)
MS/MS Tandem Detection	Yes
Operation System	Linux
Display Screen	10.1-inch capacitive touch display
Data Interface	WiFi/USB/HMDI/VGA/4G
Storage	120G memory storage and expandable
Data Output	Text /Cloud transmission / Built-in printer
Power Output	150W (On Average)
Working Temperature	-5°C to 40°C
Weight	11kg



## Multi-function Drug Analyzer



### Description

Multi-functional Drug Analyzer is a powerful handheld drug analyzer. It can rapidly detect the presence of specific drugs in human specimens (urine/saliva/hair) that exceed the cut-off concentration, to get qualitative or quantitative results.

It can be used with a matching colloidal gold reagent card or fluorescent reagent card, to qualitatively or quantitatively rapidly detect the presence of specific drugs in human samples that exceed the cut-off concentration.







## Features

- Combine colloid gold and fluorescence technology into one device to satisfy different test demands anywhere
- Capable of detecting full biological samples (urine, saliva, hair etc.)
- Automatically recognize test items, support wired or wireless data upload and on-site printing
- Innovative nanotechnology helps to get accurate results in 5 minutes
- Color touch screen, one-click operation

## Technical Specifications

Testing Principle	Colloidal gold & Fluorescence immunoassay
Specimen	Hair, Saliva and Urine
Display screen	4inch color touch screen
Memory capacity	1000 results
Print function	External printer
Data transmission	Bluetooth, USB, NFC
Host input	DC 5V 2A
Data transmission	Bluetooth, USB, NFC
Adapter input	AC 100-240V, 50/60Hz
Battery	Li battery, 3.7V/4000mAh
Dimension	195.8x92x58.9cm
N.W.	405g
Repeatability	CV ≤ 5%
Detection Speed	10 seconds/test
Stability	$\sigma \leq \pm 8\%$
Linear Dependence	$r \geq 0.99$



## Pupil Detectors for Suspected Drug User



### Technical Principle

Pupil changes are primarily influenced by the central nervous system, After drug use, the central nervous system is impaired, leading to abnormal pupil responses to light. The pupil detection device applies a light stimulus to the eye (based on the principle of the pupillary light reflex). This stimulus inevitably causes changes in the pupil which are then analyzed to determine whether the subject is suspected of drug use.

Our approach combines pupil feature detection with traditional methods for detecting eyeball lesions (e.g., identifying concave spots, speckles, radial patterns, pigmentation, ciliary features, and other detailed characteristics), significantly enhancing accuracy.

### Product Features:

#### **Applicable to All Inspection Scenes**

Raid inspections, checkpoint screenings, border inspections, high-risk positions, and key units.

#### **Device Location Tracking**

Capable of pinpointing the device's operational location.

#### **5-Second Detection, 2-Second Results**

Non-invasive, contamination-free, consumable-free, fully automated detection, greatly enhancing case handling efficiency.

#### **Real-Time Data Transmission**

The detection data is transmitted in real time to the designated server.

#### **Multi-Mode Detection**

Supports offline detection, online detection, left-eye detection, right-eye detection, and binocular detection.

## Multiple Methods for Identity Verification

Supports identification via ID card, facial recognition, iris recognition, etc.

## Technical Parameter

Detection Time	5-second detection, 2-second results
Detection Process	Fully automated voice prompts
Display	5-inch high-precision touch screen with multitouch
Connectivity	WiFi/4G
Audio	Built-in microphone for voice data detection
Storage Capacity	>10,000 records
Illumination	940nm near-infrared light source
Battery Capacity	5000mAh x3 ultra-high capacity
Battery Management	Removable battery with power status display
Results System	Interface Integrates with public security facial/iris recognition data bases
Result Query	Multidimensional results age, time, outcome, gender, etc
OS	Android
GPS	Supported
Camera	Supported
Video Recording	Supported
Bluetooth Printer	Supported
Operating Duration	>15 hours (normal use)
Operating Temperature	-20°C to 55°C

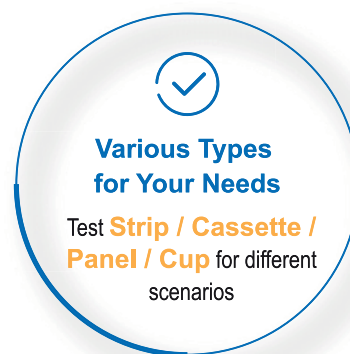
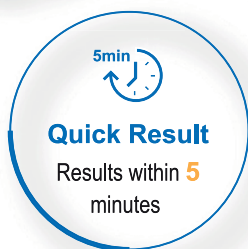
## Product Configuration



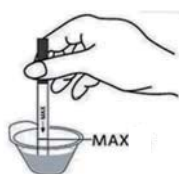
# One Step Drug Screen Test Kit (Urine) (Colloidal Gold)

One Step Drug Screen Test Kit (Urine) (Colloidal Gold) is intended for the qualitative detection of drugs and drug metabolites in human urine at specified cut-off concentrations. C4i can provide Strip / Cassette / Panel / Cup with the following test items:  
AMP / BAR / BUP / BZO / COC / COT / EDDP / ETG / FTY / K2 / K3 / K4 / KET / LSD / 6-MAM / MCAT / MDMA / MDPV / MET / MOP / MQL / MTD / OPI / OXY / PCP / PPX / TCA / THC / TRA

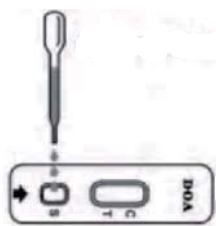
## Features



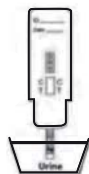
## Test Kit Type



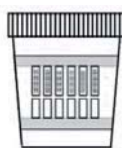
Strip



Cassette

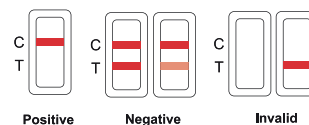


Panel



Cup

## Interpretation of Results



Positive

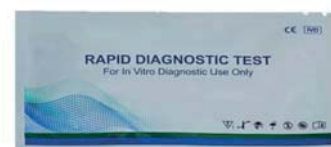
Negative

Invalid

## Test Items

Test Item	Specimen	Cut-off (ng/ml)	Format	Kit Size
AMP Amphetamine	Urine	300/500/1000	strip	50/100T
	Urine	300/500/1000	cassette	25/50T
	Urine	300/500/1000	panel	25/50T
BAR Barbiturates	Urine	200/300	strip	50/100T
	Urine	200/300	cassette	25/50T
	Urine	200/300	panel	25/50T
BUP Buprenorphine	Urine	5/10	strip	50/100T
	Urine	5/10	cassette	25/50T
	Urine	5/10	panel	25/50T
BZO Benzodiazepines	Urine	100/200/300	strip	50/100T
	Urine	100/200/300	cassette	25/50T
	Urine	100/200/300	panel	25/50T
COC Cocaine	Urine	100/200/300	strip	50/100T
	Urine	100/200/300	cassette	25/50T
	Urine	100/200/300	panel	25/50T
COT Cotinine	Urine	200/300/600	strip	50/100T
	Urine	200/300/600	cassette	25/50T
	Urine	200/300/600	panel	25/50T
EDDP Methadone Metabolite	Urine	100/300	strip	50/100T
	Urine	100/300	cassette	25/50T
	Urine	100/300	panel	25/50T
ETG Ethyl Glucuronide	Urine	500/1000	strip	50/100T
	Urine	500/1000	cassette	25/50T
	Urine	500/1000	panel	25/50T
FTY Fentanyl	Urine	100/200	strip	50/100T
	Urine	100/200	cassette	25/50T
	Urine	100/200	panel	25/50T
K2 Synthetic Marijuana	Urine	30/50	strip	50/100T
	Urine	30/50	cassette	25/50T
	Urine	30/50	panel	25/50T
K3 AB-PINACA	Urine	50	strip	50/100T
	Urine	50	cassette	25/50T
	Urine	50	panel	25/50T
K4 UR-144	Urine	50	strip	50/100T
	Urine	50	cassette	25/50T
	Urine	50	panel	25/50T
KET Ketamine	Urine	300/500/1000	strip	50/100T
	Urine	300/500/1000	cassette	25/50T
	Urine	300/500/1000	panel	25/50T
LSD Lysergic Acid Diethylamide	Urine	20/50	strip	50/100T
	Urine	20/50	cassette	25/50T
	Urine	20/50	panel	25/50T
MAM 6-Monoacetylmorphine	Urine	10	strip	50/100T
	Urine	10	cassette	25/50T
	Urine	10	panel	25/50T
MCAT Methcathinone	Urine	100/500	strip	50/100T
	Urine	100/500	cassette	25/50T
	Urine	100/500	panel	25/50T
MDMA Methylenedioxymethamphetamine	Urine	300/500/1000	strip	50/100T
	Urine	300/500/1000	cassette	25/50T
	Urine	300/500/1000	panel	25/50T
MDPV	Urine	500/1000	strip	50/100T
	Urine	500/1000	cassette	25/50T
	Urine	500/1000	panel	25/50T
MET Methamphetamine	Urine	300/500/1000	strip	50/100T
	Urine	300/500/1000	cassette	25/50T
	Urine	300/500/1000	panel	25/50T
MOP Morphine	Urine	100/200/300	strip	50/100T
	Urine	100/200/300	cassette	25/50T
	Urine	100/200/300	panel	25/50T
MQL Methaqualone	Urine	300	strip	50/100T
	Urine	300	cassette	25/50T
	Urine	300	panel	25/50T
MTD Methadone	Urine	300	strip	50/100T
	Urine	300	cassette	25/50T
	Urine	300	panel	25/50T

Test Item	Specimen	Cut-off (ng/ml)	Format	Kit Size
OPI Opiate	Urine	1000/2000	strip	50/100T
	Urine	1000/2000	cassette	25/50T
	Urine	1000/2000	panel	25/50T
OXY Oxycodone	Urine	100/300	strip	50/100T
	Urine	100/300	cassette	25/50T
	Urine	100/300	panel	25/50T
PCP Phencyclidine	Urine	25	strip	50/100T
	Urine	25	cassette	25/50T
	Urine	25	panel	25/50T
PPX Propoxyphene	Urine	300	strip	50/100T
	Urine	300	cassette	25/50T
	Urine	300	panel	25/50T
TCA Tricyclic Antidepressants	Urine	300/1000	strip	50/100T
	Urine	300/1000	cassette	25/50T
	Urine	300/1000	panel	25/50T
THC Marijuana	Urine	25/50/150	strip	50/100T
	Urine	25/50/150	cassette	25/50T
	Urine	25/50/150	panel	25/50T
TRA Tramadol	Urine	100/300	strip	50/100T
	Urine	100/300	cassette	25/50T
	Urine	100/300	panel	25/50T
Multi-drug Screen Test (Up to 16 items)	Urine	/	cassette	/
			panel	
			cup	







# EOD Robot

**Model:C4I-18**



## 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, explosives disrupter 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 and its diameter is 220mm. 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 DC24V lead-acid rechargeable battery.

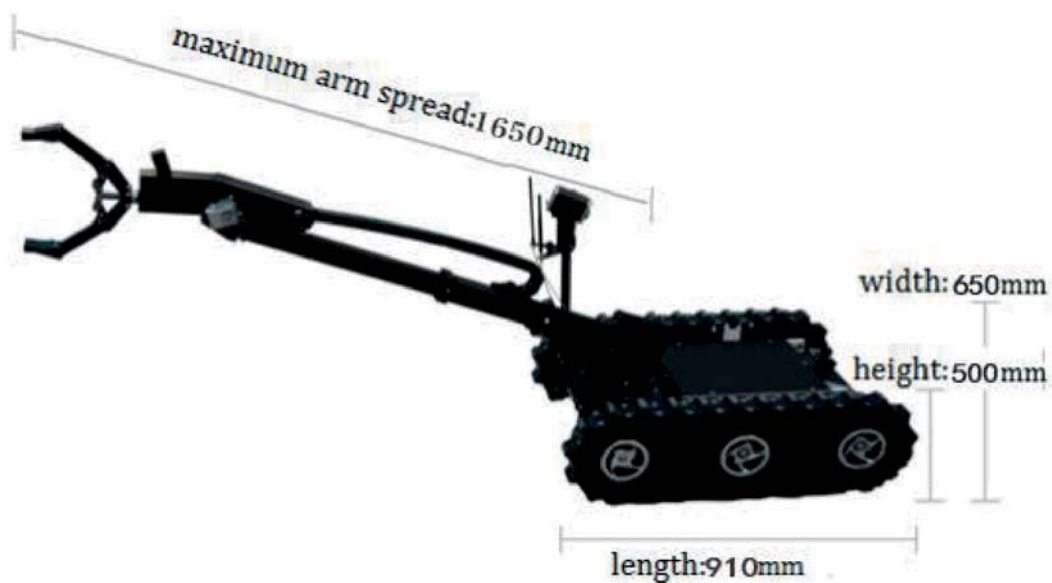
Control system is made up of center control system, control box, etc.

Optional accessories of EOD robot body: tail , hardware tool (include cutter, rake, drill and clipper).



- Transfer and destruction 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, simple maintenance work.

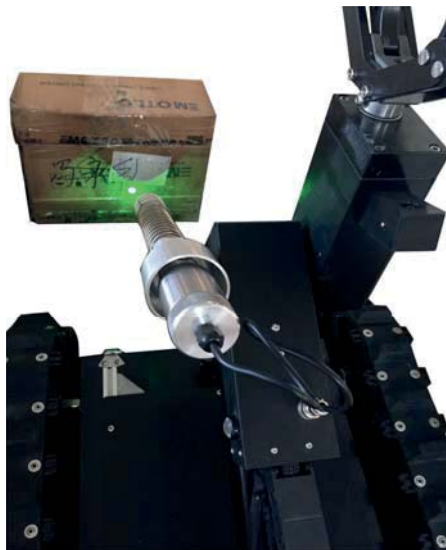
## Product Picture







**Small Arm & Gripper**





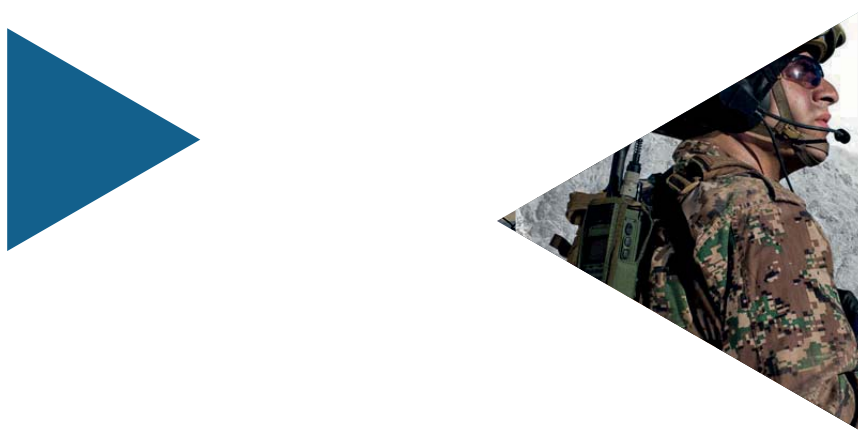
**Equip with water jet disrupter**



## Technical Parameter

Robot Body	
Materials	Aircraft-grade aluminum alloy, precision machining
Dimensions	L*W*H: 910 * 650 * 500 mm
Weight	90kg (without accessories, package and control box)
Battery	DC24V lead acid rechargeable battery
Working time	≥ 3 hours
Maximum Speed	≥1.2m/s
Loading Capacity	When loading 140KG, it can move normally (actual measurement).
Lift Capability	≥50KG
Grade Ability	It can climb up the slope of 40° 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 40°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.
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: ≥400m (visible range); wire control: 100m ;
Number of Cameras	4
Forward Camera	Color infrared induction
Backward Camera	Color infrared induction
Cradle Head Various focal Camera	Color infrared induction
Manipulator Gripper Camera	Color infrared induction
Floodlight	Two group LED floodlight (one group on the front and back)

Monitoring cradle head	
DOFs of Cradle Head	<p>2 independent DOFs, adjustable rotation speed.</p> <p>Cradle rotation: 360° continuously, maximum rotation speed of 130° per second.</p> <p>Cradle pitching: -45°~ 120°, maximum pitching speed of 50° per second.</p>
Control Terminal	
Box	Portable, waterproof, dustproof, high strength
Size	≤ L 460 * W 370 *H 260 mm
Weight	≤ 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 24V lithium battery, working time ≥ 3 hours when fully charged.
Optional	
Drill, clipper, cutter and rake	
20mm Water jet disrupter	



LEARN MORE: [c4icommunication.com](http://c4icommunication.com)

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