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Growing Together for Mutual Benefit

Beijing LSJ Technology Development Co., LTD.

Creating a leading brand for emergency rescue military and police counter-terrorism and reconnaissance inspection

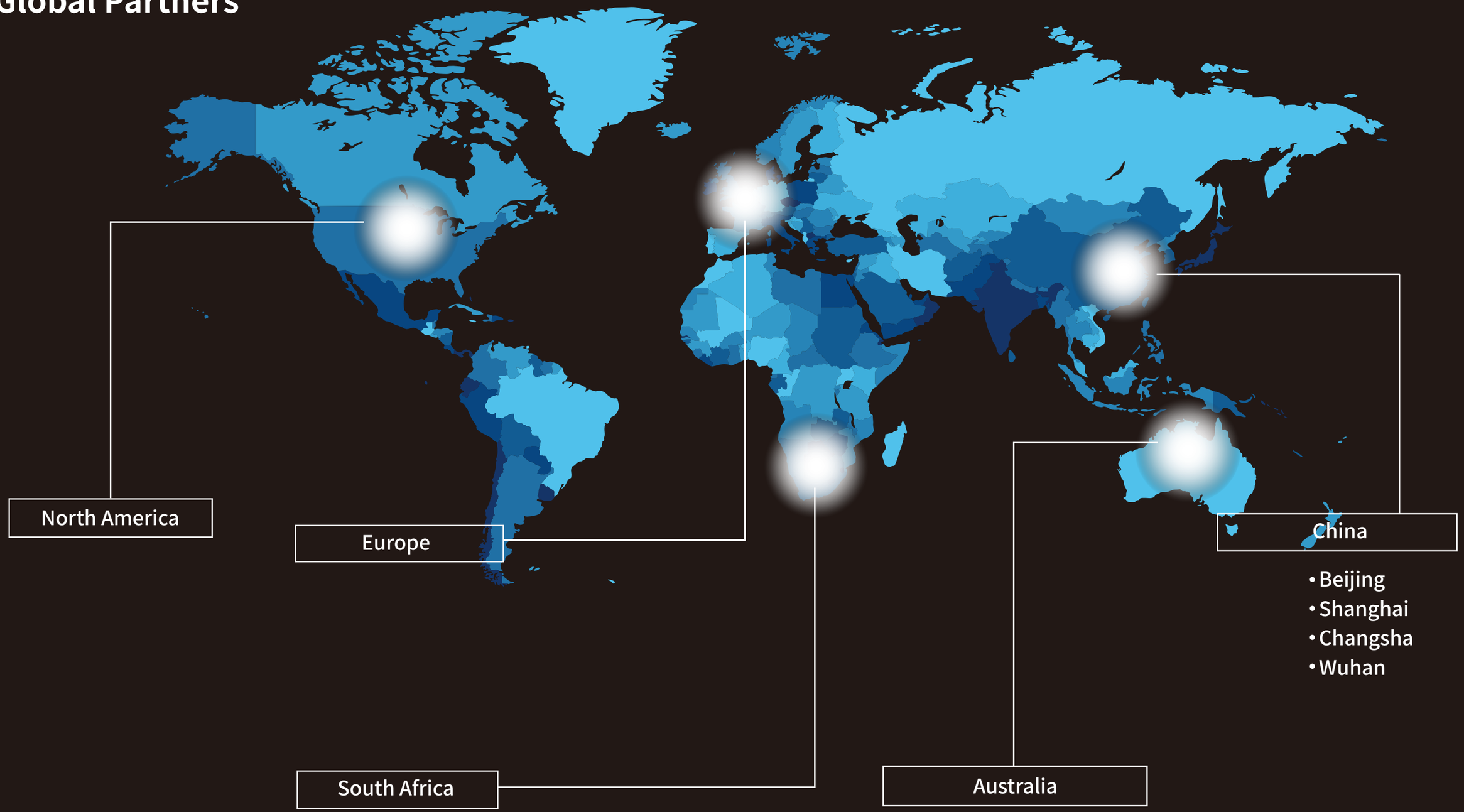
China Huashi Group is a national high-tech enterprise committed to the research, development, production and sales of equipment for emergency rescue, military and police counter-terrorism, etc. The mission of the Group is to transform domestic and international leading scientific research outcome into advanced equipment with application value, and is determined to become a leading brand of reconnaissance and inspection equipment in the field of emergency rescue, military and police counter-terrorism.

The company has independently developed a number of radar life detectors that have reached the international advanced level and have core intellectual property rights, including ultra-wideband series radar life detectors, multi-mode composite life detectors, three-dimensional detection radars, MIMO three-dimensional radar life detectors, portable arc synthetic aperture monitoring radars, portable radar & Optoelectronic displacement monitoring instrument, laser displacement monitoring instrument, handheld infrared thermal imager, multifunctional military toxicant detector, hazardous chemical disposal system and other cutting-edge core products. At the same time, our company is committed to introducing advanced technologies and products from abroad to China, and forming strategic cooperation, and successfully transforming them into products with independent intellectual property rights to serve the needs of national defense strategy.

The Group adheres to the corporate culture of "co-development and mutual benefit", adheres to the advanced rescue concept of the forefront, and is committed to improving the entire rescue system by independently developing and introducing advanced rescue equipment, and organically combining rescue personnel with rescue equipment and carrying platforms. Provide customers with high-quality rescue solutions and professional after-sales service.

Create a leading brand for emergency rescue
military and police counter-terrorism and reconnaissance inspection

Global Partners



R&d And Production Capabilities

Customization service

Customers develop product plans

Customers and R&D personnel discuss product plans

Finalize the product plan

Develop R&D plans and processes

Start R&D and production

Develop R&D plans and processes

Domestic top research team

China Huashi Group is a national high-tech enterprise committed to the research, development, production and sales of equipment for emergency rescue, military and police counter-terrorism, etc. The Group brings together a large number of professional and technical personnel in the fields of electronic information, computer, and mechanical engineering, and has established a R&D team with a solid theoretical foundation and rich practical experience. In-depth research in ultra-wideband radar, wireless real-time navigation and positioning, and optoelectronic detection. The core technical team are all full-time masters and doctors from well-known scientific research institutes such as Central South University, National University of Defense Technology, Xidian University, and University of Electronic Science and Technology of China. The proportion of postgraduates and above is 50%. The professional backgrounds of R&D personnel cover multiple fields such as communication, chemistry, electronics, and aerospace, especially in ultra-wideband (UWB) detection guidance, ultra-low frequency communication, and microwave radio frequency, etc. The direction has accumulated profound technical advantages. Published more than 180 academic papers, applied for more than 70 patents, 4 academic monographs, and 5 national defense reports.

Company operation center: Beijing, China/Changsha, China
R&D and production center: Shanghai, China/Wuhan, China

China Huashi Group was established in 2010. The first independently developed and produced radar life detector was officially launched in the market in 2013. It has now become a radar leading brand with market influence and good user reputation. The company has always adhered to the business objective of "creating a brand and striving for excellence". After years of unremitting efforts, it has successfully developed detection instruments such as life detection, optoelectronic detection, deformation monitoring, and nuclear, biological and chemical detection. At the same time, it actively introduces international well-known detection brands. Products, determined to "solve practical problems for customers and build a leading brand of emergency rescue and reconnaissance inspection", actively forge ahead, continue to innovate, and enhance the competitiveness and development of the enterprisespace for sustainable development of the enterprise.

Domestic first-class R&D facilities

- UWB professional design laboratory with an area of 4,000 square meters.
- A compact anechoic chamber, introducing the Russian timetime-domain measurement systemAMCCC.
- Several other models of vector network analyzers, spectrum analyzers, high-speed digital sampling oscilloscopes, etc.
- Agilent E8363B PNA series vector network analyzer, E8363B highest frequency range 40GHz.
- Tektronix TDS5104 high-performance sampling oscilloscope TDS5194 highest sampling rate 5GSa/s sampling bandwidth 1GHz.
- Agilent infiniium DSO81204a digital sampling oscilloscope DSO81204A highest sampling rate 40GSa/s sampling bandwidth 12GHz.

10 Deep cultivation in the industry and create the future

TEN YEARS OFPRRFORMANCE OF HONOR

Major Scientific Research Projects Undertaken And Representative Scientific Research

- In 2023, participated in two topics of the "Major Natural Disaster Prevention and Control and Public Safety" of the 14th Five-Year National Key R&D Program
- In 2021, organized and undertook the "Research on Remote Sensing and Wide-Spectrum Identification Technology of Panoramic True Image of Hazardous Gas Cloud Flow Field" project of the Fire Rescue Bureau of the Ministry of Emergency Management
- In 2020, participated in the scientific research project of "On-site Rapid Screening and Detection Technology and Equipment for Field Pollutants" of the national key R&D program
- In 2019, organized and undertook the "Research and Application of Technology Based on Ultra-Low Frequency Underground Communication System" scientific research project of the Beijing Science and Technology Plan "Urban Operation Safety Assurance" project
- In 2018, participated in the 13th Five-Year National Major R&D Program "Research and Application Demonstration of Life Search and Rescue Equipment under Complex Disaster Conditions", and undertook 4 research projects:
  1.Research and development of human target recognition and positioning equipment based on MIMO radar
  2.Research on refined operation platform for life detection based on multi-mode fusion
  3.Research on multi-target and multi-directional life body detection technology
  4.Research on adaptive technology of radar life detection equipment in complex disaster environment
- In 2018, participated in the third China Military-Civilian Integration Technology Innovation Application Competition and won the Excellent Award
- In 2017, won the Beijing Science and Technology Award
- In 2016, undertook the "Radar Life Detector" project of the Beijing Science and Technology Plan
- In 2015, participated in the Fengtai District Science and Technology Innovation Fund for Small and Medium-sized Enterprises, and undertook the "Research on Radar Life Detector" project

For 3 Consecutive Years, We Have Responded To The National Call To Participate In The "Emergency Mission" Large-scale Actual Combat Verification Exercise

2023 Alpine Valley Earthquake Disaster Integrated Air-to-Ground Joint Rescue Exercise

2022 Plateau and Cold Region Earthquake Relief and Disaster Relief Exercise

2021 Earthquake Relief Exercise

PARTICIPATION IN EMERGENCY FIRE RESCUE - PRACTICAL APPLICATION
GO DEEP INTO THE FRONT LINE OF RESCUE - ASSIST IN RESCUE

The Huaxia Flame Blue Rescue Team actively responded to the call with our rescue equipment Rushing to the front line of rescue at the first time, assisting the emergency fire rescue team in searching and locating trapped personnel, monitoring and detecting the rescue environment...

2024

1·28 Yunnan Zhenxiong Landslide Rescue

After the disaster, our technical engineers arrived at the scene with self-developed portable circular synthetic aperture monitoring radar and other equipment at the first time, and set up the equipment to monitor the slope instability at the first time, and reported the deformation data to the command center in time to provide safety for the rescuers Rescue guarantee. At the scene, CCTV13 News Channel, Xinhua News Agency and China Youth Daily all focused on our monitoring data and conducted special reports

2023

12.18 Gansu Jishi Mountain Earthquake Rescue

After the earthquake, our company urgently launched the rescue plan, Mobilized technical personnel to rush to the Jishi Mountain rescue site with a variety of life detection equipment, assisted the Longnan detachment in carrying out rescue missions in Tuanjie Village, and jointly negotiated rescue plans. At the same time, our company actively participated in the post-disaster reconstruction work, donated necessary disaster relief materials, and helped the people in the disaster area to resume their normal lives as soon as possible. Love and support accumulate sand into a tower Landslide risk on site Rescue was interrupted once

2023

Inner Mongolia Alxa Open-pit Coal Mine "2.22"Particularly Major Collapse Accident Rescue

Our company organized a technical team to carry life search and rescue equipment and new slope radar monitoring equipment to the disaster relief and rescue front line at the first time, and carried out continuous monitoring of the slope above the rescue site, which achieved remarkable results and provided strong data support for the on-site rescue

2023

Rescue of the 7.8-magnitude earthquake in Turkey on February 6

Our rescue team rushed to the disaster area with search and rescue equipment such as radar life detectors and audio-visual life detectors, and actively participated in the search and rescue of lives, which fully embodies the spirit of a great power.At the same time, in order to promote the positive and rapid development of the rescue cause, our company organized the donation of life search and rescue equipment, which fully embodies the social responsibility of enterprises

Major Corporate Event

2022

Luding, Sichuan 6.8-magnitude earthquake

After the disaster, our company immediately dispatched a professional technical team carrying new slope radar monitoring equipment from Changsha, Hunan to the disaster relief and rescue front line to continuously monitor the slope above the rescue site, achieving remarkable results and providing strong data support for fire rescue

2022

4.29 Changsha building collapse accident rescue

Our company responded to the call immediately and put into use our array-type micro-seismic life detector, building deformation monitoring system and other detection instruments on site. Among them, the 10-probe array-type micro-seismic life detector was used for the first time in actual combat, assisting in the successful location of the ninth trapped person

2020

Xinjia Hotel collapse accident rescue in Quanzhou City, Fujian Province

Our company's technical personnel rushed to the disaster site with radar life detectors and other equipment on the day of the accident, and used the equipment to accurately locate the location of the trapped persons, successfully assisting in the rescue of 3 trapped persons

2019

7.23 Guizhou Shuicheng landslide rescue

Provide technical support to Guizhou Provincial Fire Rescue Team

2015

Shenzhen 12.20 landslide accident rescue

The Xili Squadron of Nanshan Fire Rescue Brigade in Shenzhen successfully rescued the only survivor using the radar life detector provided by our company

2013

4.20 Ya'an earthquake relief

Langsen Jike Technology staff carried radar life detectors and various rescue equipment on their shoulders and trekked more than 50 kilometers in one day and night to reach the front line of rescue with local firefighters.

CONTENTS

Advantageous Products

CONTENTS

Advantageous Products

2d Radar Life Detection Instrument

A high-tech professional rescue equipment specially designed for disaster rescue scenes such as earthquakes, avalanches, and building collapses. The equipment can penetrate non-metallic media (clothes, brick walls, ruins, floor slabs, other coverings, etc.), detect weak life signals (breathing, heartbeat, body movement) of survivors at a relatively long distance, and give the life body's two-dimensional coordinate information, and finally realize the function of quickly detecting and rescuing survivors in the ruins. It has the characteristics of strong penetration, precise positioning, and rapid response, and is widely used in the search and location of trapped persons under the ruins of disasters such as earthquakes, mudslides, and building collapses.

Product features

- Toolbox-type integrated design, easy to carry, deploy and operate
- Two-dimensional positioning function, real-time acquisition of life body's two-dimensional coordinates
- With dual-screen synchronous observation function
- Global real-time scanning and display function
- Excellent electromagnetic compatibility design, strong penetration
- Automatic human target recognition and screening function
- Medium coupling enhanced antenna technology, strong anti-interference performance
- Automatic medium compensation function, strong anti-interference ability
- Static and dynamic multi-target detection capability
- Intrinsically safe explosion-proof design, safe and reliable

Applications in fire rescue

- Search and locate victims in the ruins of disasters such as earthquakes and building collapses
- Detect the situation of personnel on site and help commanders make quick decisions
- Quickly search for survivors and grasp the exact location of the victims

Multi-mode Composite Life Detection Instrument

A multi-mode composite life search device, which effectively integrates and highly integrates electromagnetic and acoustic detection technologies. It can use multiple detection methods at one time to comprehensively search for life signs in the target area, solving the problem that different products are not compatible and multiple rescue products need to be carried on the rescue site. Reduce the burden on rescuers and make it suitable for more complex occasions; in field rescue, only one set of equipment can easily achieve multi-purpose and three-dimensional stereoscopic rescue, effectively overcoming the technical bottleneck of a single life detection equipment, which is a major technological innovation in the field of life detection. It has the characteristics of high integration, wide application range, rapid response, high reliability, etc., and is widely used in the search and location of trapped persons under the ruins of disasters such as earthquakes, mudslides, floods, and building collapses.

Product features

- Modular integrated design, excellent mobility
- Multi-mode fusion detection, highly integrated system
- The detection results are uniformly output, and the fusion is optimized and analyzed, and the results are shared
- Multiple sensors can be selected arbitrarily and combined freely
- Multi-mode communication system with all-wireless connection
- IP67 high protection level design, waterproof, dustproof, shockproof and cold-proof
- Intrinsically safe explosion-proof design, safe and reliable

Multi-functional Intelligent Search And Rescue System

A high-performance multi-mode life detection device that integrates technologies such as radar detection, infrared thermal imaging detection, and multi-band image fusion. It can quickly lock the location of the personnel to be rescued through multiple detection technologies. It can perform rescue tasks in complex environments such as buried ruins, night or insufficient light, and thick smoke. It can quickly scan the buried area with radar to search for trapped personnel, and quickly perform infrared detection on dark or fire environments to early detection of fire sources and living entities. With the advantages of high protection level, light weight, good controllability, convenient portability, strong penetration and fast response, it is widely used in the search and location of trapped personnel in disasters such as earthquakes, mudslides, floods, building collapses, and fires.

Product features

- System integration design, small size, light weight, easy to carry, and fast response, greatly improving the high mobility of life detection
- 3.5-inch color LCD display, integrated display of detectiondata
- Single device realizes radar detection and infrared dual-band thermal imaging recognition
- Multiple detection methods are used in combination to quickly lock the location of the personnel to be rescued
- Two-way WiFi transmissionand control function, detection results are displayed on multiple screens
- IP66 protection level design, 1 meter drop resistance,water proof, dustproof and shockproof

Array Radar Life Detection Instrument

An array-type fixed-point radar life search and rescue system. The whole system is composed of multiple radar detectors connected in series, which can be configured as four-in-one or eight-in-one to achieve array arrangement and multiple fixed-point monitoring and monitoring of disaster sites. The detector can penetrate media such as plates, concrete, and ruins to detect the breathing or subtle movements of living bodies, and quickly lock the search and rescue target when it detects slight vibrations, and give an audible and visual alarm.

Product features

- Embedded electronic display screen, which can display various information such as machine running status and detection target
- Support multiple radar detectors to be connected in series and arranged in an array to achieve multiple fixed-point deployment
- Support detecting the breathing or subtle movements of living bodies without contacting them
- The detection information of each radar detector can be wirelessly transmitted to the handheld control terminal for centralized display
- Support multiple power supply methods, super long battery life, continuous monitoring time not less than 7 days
- With sound and light alarm function, with single alarm and continuous alarm mode
- ISmall size, light weight, strong penetration ability, and large deployment area
- High protection level design, waterproof and dustproof design, can be used in harsh environments

Penetrating Three-dimensional Reconnaissance Radar

A single-soldier radar equipment specially used for anti-terrorism and stability maintenance, street fighting reconnaissance, emergency rescue and other tasks, searching and locating personnel hidden in buildings, under ruins or behind obstacles. This product adopts advanced multi-antenna synthetic aperture radar technology, which can realize three-dimensional spatial positioning of hidden targets, and judge the human body movement status through echo signal analysis, providing important support for anti-terrorism and stability maintenance and emergency rescue. It has the characteristics of small size, light weight, and suitable for single-soldier operations. It is widely used in military and police anti-terrorism, urban street fighting, hostage rescue, border inspection, fire emergency rescue and other scenarios.

Product features

- With three-dimensional positioning and imaging functions, it can identify the standing, sitting, and squatting postures of human targets
- Real-time positioning function for dynamic and static multiple targets, which can display information such as target quantity, status, location and posture
- Fully wireless connection, human-computer interactive interface, clear and concise, easy to operate
- Small size, light weight, suitable for single-soldier operations
- Support handheld operation or supported by a tripod for quick deployment

Array Micro-seismic Life Detection Instrument

An acoustic detector designed to detect and locate survivors buried in collapsed structures due to earthquakes, explosions, landslides, mine accidents, building collapses, etc. It adopts a high-sensitivity acoustic sensor, and the frequency response range covers the sound characteristics of human heart sounds and breathing. The positioning accuracy is better than 0.5 meters, which is more suitable for life search and rescue application scenarios. Widely used in life search and location in disaster scenes such as earthquakes, building collapses, landslides, and house collapses.

Product features

- Micro-seismic signal detection function, which can detect weak micro-seis mic signals on site
- Fully wireless design, supporting multiple sensors to work in a wireless network at the same time
- Signal strength display function, which can simultaneously display the audio changes of all connected sensors
- With two-way voice call function and left and right channel adjustment function
- With sound restoration function, truly restore the knocking and drawing sounds made by the trapped person
- High and low frequency filter coefficient adjustment function, effectively filtering out non-listening mechanical noise on site
- Relative positioning function, real-time display of the relative position and orientation between the sensor and the host
- IP67 high protection level design, 1m drop resistance, waterproof, dustproof and shockproof

Application case

In the Changsha building collapse incident on April 29, 2022, our company brought a micro-seismic life detector to the scene to assist in the rescue. At 22:15 on May 3, the rescue site was assisted in re-searching and locating the ninth trapped person, accurately determining the location of the trapped person, and providing favorable technical support for the rescue.

Aftershock Monitoring Instrument

A high-precision digital alarm. It is mainly used to monitor the stability of tilted buildings, glass, building beams, concrete walls, metal tanks and other structures. It can monitor the slight displacement and vibration of the structure, and give a sound and light alarm signal in time when it exceeds the alarm threshold setting, reminding the rescuers and the surrounding personnel of the dangerous situation, so as to evacuate the dangerous area in time.

The instrument provides a magnetic base, which can be quickly connected to the surface of metal objects. At the same time, it is equipped with a variety of adapters. It can be used with the rescue alarm to install the rescue alarm at any angle, any position and any structural surface (metal, glass, cement, concrete and other structures). Especially when entering damaged buildings such as earthquakes and building collapses, using aftershock monitors can provide rescuers with earlier warnings of building or other structural movements and vibrations, ensuring rescue safety.

Product features

- The main engine adopts high impact resistant composite material, which is impact resistant and corrosion resistant
- With three-way 360° measurement function
- With motion and vibration detection function
- The resolution is better than 0.01mm, which can identify smaller structural changes
- With sound and light alarm function, equipped with red LED alarm lamp
- Powered by large-capacity battery, the battery life is not less than 7 days
- Excellent IP66 waterproof and dustproof design, suitable for use in harsh emergency rescue environments

Infrared Audio-visual Life Detection Instrument

An integrated, multi-functional emergency auxiliary rescue equipment for both land and water. The product integrates infrared thermal imaging, high-definition video transmission, micro-electro-mechanical control and other technologies, which can quickly search for targets in narrow gaps such as tunnels, deep wells, and ruins, and communicate with them. It has the characteristics of high protection level, light weight, good controllability, convenient portability, and flexible application. It is widely used in earthquake, explosion, landslide, building collapse, tunnel collapse and other emergency rescue accidents for rapid and effective life search and positioning.

Product features

- Innovative integrated case design, all components are integrated into one case, which is light and portable
- 8-inch LCD display, automatic screen brightness adjustment
- Combined with video detection and infrared monitoring, it can quickly perform visual inspection of the target area
- Can penetrate smoke and rain and fog, quickly lock the target on site
- With day and night observation capability, support temperature measurement and underwater detection
- Multiple probe combination configurations, flexible replacement, strong adaptability
- Embedded rigid detection cable, supporting deep well and tunnel detection
- Real-time display of detection distance, precise positioning
- Two-way voice call function, which can listen and detect suspicious target areas in real time
- One-key photo and video recording function, supporting full-process video and photo storage
- With wireless transmission function, the video footage can be wirelessly synchronized to a third-party screen to achieve collaborative observation and combat

Rescue of the 6.8-magnitude earthquake in Turkey on February 6, 2023

Firefighting exercise, firefighters use this equipment to observe the trapped persons

Audio-visual Life Detection Instrument

An integrated, multi-functional emergency auxiliary rescue equipment for both land and water. The product integrates infrared thermal imaging, high-definition video transmission, micro-electromechanical control and other technologies, which can quickly search for targets in narrow gaps such as tunnels, deep wells, and ruins, and communicate with them. It has the characteristics of high protection level, light weight, good controllability, convenient portability, and flexible application. It is widely used in earthquake, explosion, landslide, building collapse, tunnel collapse, narrow space and other emergency rescue accidents for life search and positioning.

Product features

- High-definition LCD display, support screen brightness adjustment
- Multiple probes can be used in combination, flexibly configured, and adaptable
- Retractable probe design to meet different distances
- High protection level design, support for both land and water
- One-key photo, video and detection data storage and playback function
- Two-way voice call function
- Support 4G, WIFI wireless transmission function to achieve background synchronous observation

Multi-mode Audio-visual Life Detection Instrument

A composite life detector, the whole machine integrates wireless micro-seismic detection and video detection modes, and can use video and micro-seismic two methods at one time to comprehensively detect life signs in the target area. It has the characteristics of high integration, good controllability, flexible application, and convenient operation and use. It is widely used in earthquake, mudslide, flood disaster, building collapse and other disaster rescue sites for personnel search and positioning.

Product features

- Modular design, quick switch between video search and vibration signal listening
- High integration, combining vibration signal listening and video search functions
- Unified output of multi-mode results, convenient and efficient
- Personalized menu design, easy to operate
- One-key photo recording and storage playback function
- Adjustable high and low frequency filter to filter out on-site noise in real time
- Retractable probe design to meet different distances
- Two-way voice call function

Infrared Thermal Imager For Firefighting

A compact, lightweight, rugged, and reliable rescue-type infrared thermal imager for fire fighting, specially designed for emergency rescue, meeting the XF/T635-2006 Standard for Infrared Thermal Imagers for Fire Fighting. In the event of a fire or harsh environment, it can help rescuers easily see the direction in thick smoke, assist in residual fire monitoring, or search for trapped personnel in a night environment, calmly analyze the on-site conditions, and make decisions faster.

Product features

- Handheld ergonomic design, small size and light weight
- 3.5-inch high-definition LCD display, automatic screen brightness adjustment
- 384*288 high-sensitivity infrared detector for high-quality imaging
- 1200°C wide temperature range design, automatic range switching
- Full-screen automatic highest temperature, lowest temperature and center point temperature display
- Electronic compass positioning and orientation function for easy fire scene positioning
- High-definition visible light real-scene shooting function, assisting in detail observation
- Dual-band imaging technology, free switching between infrared and visible light modes
- With laser indication function, cold and hot tracking and fire scene rapid positioning function More color palettes and application modes are available
- Tested in harsh high temperature environments, IP67 waterproof and dustproof design
- With wireless transmission function, real-time image and video transmission

Typical applications

- Fire scene personnel search and rescue, residual fire monitoring
- Detection of shallow buried persons in ruins such as earthquakes
- Residual fire monitoring such as forest fires
- Searching for fire sources in fire scenes, investigating fire causes
- Dangerous goods detection

Infrared Thermal Imager For Fire Fighting

A compact, lightweight, rugged and reliable handheld infrared thermal imager for fire fighting, which meets the XF/T635-2006 Rescue Standard for Infrared Thermal Imagers for Fire Fighting. It has the function of displaying real-time temperature and images of the fire scene in the fire scene. In the event of a fire or harsh environment, it can effectively help firefighters easily see the direction, search for trapped personnel, calmly analyze the fire scene environment, and make decisions faster. It is mainly used for personnel search and rescue or fire source search in dark and smoky environments, as well as the handling of hazardous chemical accidents.

Product features

- Handheld ergonomic design, small size, light weight
- 3.5-inch TFT LCD display, automatic screen brightness adjustment 384*288 high-sensitivity detector for high-quality imaging
- 1200°C ultra-wide range design, helping rescuers stay away from high-tem perature danger zones Infrared mode and visible light mode are combined, high-definition visible light shooting, assisting in detail observation"Equipped with laser indication function, laser ranging function and electronic compass orientation function
- Full-screen automatic highest temperature, lowest temperature and center temperature display
- Fire scene rapid positioning and cold and hot spot tracking, automatic capture of highest and lowest temperature points
- Waterproof and heat-insulating structure design, new flame-retardant materials, safe and reliable
- Black hot, white hot and multiple pseudo-color application modes provide more intuitive temperature image distribution
- Tested in harsh high and low temperature environments, strong environ mental adaptability

Display mode

White hot

Black hot

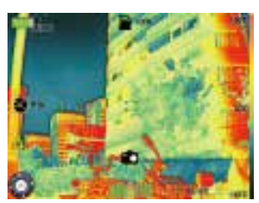
Fire

Fire fighting

Search and rescue

Detection

Patrol



Assessment

Infrared Thermal Imager

A compact, lightweight, rugged, durable, and reliable infrared thermal imaging camera widely used in fire and rescue operations, post-fire monitoring, earthquake disaster scenarios, surface burial detection in rubble, forest fires, hazardous material detection, and more, making it an ideal choice for emergency rescue missions.

Product features

- 2.8-inch TFT full-angle LCD screen with support for automatic tracking of center points, cold and hot spots
- 160x120 infrared thermal image resolution and 640x480 visible light image resolution providing clear image quality
- Support for various color palettes including rainbow, iron red, cold color white hot, black hot, meeting diverse application needs
- Temperature measurement range from -20°C to 550°C with high measure ment accuracy, offering precise temperature data
- Features localized unit adjustment, multilingual settings, date and time format adjustments, and auto-shutdown function
- Built-in large storage space for convenient storage of both infrared thermal images and visible light images
- Supports multiple image formats such as JPG and MP4 for easy storage and sharing of images and videos
- Equipped with a MicroUSB 2.0 interface for easy data transfer and connec tion to other devices

Display mode

Long-wave Infrared Imaging Gas Leak Detector

LSJ series handheld long-wave infrared imaging gas leak detector adopts high-definition infrared detector and long-wave infrared response band, which can detect various gas leaks including methane, nitrous oxide, sulfur dioxide, phenol, ethyl acrylate, isooctyl acrylate, R13, R13B1, R123, R125, R134A, R417A, R422A, R508A, etc.

Product features

- 3.5-inch touch display, high-definition uncooled infrared detector, clearer gas detection
- Thermal sensitivity is lower than 25mK, capturing more trace gases
- 640×512 infrared pixels, clear image details
- Support simultaneous detection of infrared light and visible light, easy to locate gas leaks
- Support full-screen highest temperature, lowest temperature tracking and temperature display
- Support custom point, line, area temperature measurement function, support image alarm function
- Support infrared, dual-light fusion, visible light, picture-in-picture, detail enhancement and other image modes
- Support voice annotation and storage with the image
- Support USB, WIFI data transmission
- Small size and light weight, more labor-saving during detection work



Infrared Gas Leak Detector

A non-contact volatile organic gas (VOCs) leak detector, which uses a cryogenic type II superlattice (T2SL) detector. The product has obtained intrinsic safety explosion-proof certification. Rescuers can quickly find the minimum concentration of volatile organic gas (VOCs) leaks in hazardous places through images, and accurately locate the source of the leak or emission.

Product features

- Adopt a new generation of superlattice (T2SL) cryogenic infrared detector, with high detection sensitivity and clear presentation of minor leaks
- High sensitivity, can detect a small flow rate of 0.001ml/s, and integrates a variety of image processing algorithms
- Integrated with a 5-megapixel visible light camera, with infrared image, visible light image, and thermal sensitivity mode
- With WIFI, Bluetooth wireless transmission function, support image wireless transmission and voice communication function
- Full-touch LCD display, providing convenient navigation, user interface, and operation experience
- The appearance structure is exquisite, the handshake can be rotated, and the ergonomic design is good
- With video recording, photo taking and voice recording functions, convenient for on-site evidence collection
- Support infrared thermal image temperature display, can display set point, set area temperature
- Support highest temperature, lowest temperature and isotherm display
- With GPS positioning function, automatic GPS image marking function
- With power display function, undervoltage alarm prompt function
- With automatic shutdown and automatic screen off function

Typical applications

- Fire safety and production safety, environmental protection law enforcement monitoring, public safety, leak detection and repair projects


Portable Radar & Photoelectric Displacement Monitoring Instrument

A new type of equipment for continuous monitoring of the stability of monitored targets in disaster relief scenes such as fires and earthquakes. Based on microwave remote sensing and phase interference technology, it can continuously monitor the displacement, bending, natural frequency, and impact of high-rise monitored targets from a long distance and non-contact. It has the advantages of rapid mobile deployment, sub-millimeter deformation monitoring accuracy, non-contact,unaffected by smoke and fire, high data refresh rate, can monitor the overall target of monitoring, and multiple units work together, which is conducive to early warning and real-time alarm of possible collapse or serious structural damage of the monitored target, and can effectively ensure the life safety of rescue personnel.

Product features

- Can simultaneously measure the deformation of multiple points at different heights of the monitored target
- High deformation measurement sensitivity and fast data update rate
- Unaffected by weather conditions such as rain, snow, fog and low light condi tions such as night
- The whole machine is light in weight, small in size and low in power consumption
- With the ability for multiple devices to work together
- With laser ranging function, which can measure the target reference distance
- With low-illumination visible light function, supporting real-time viewing and alignment
- Automatically calculate the deformation, curvature and other indicators of the building, and the monitoring results are visualized

Application scenarios

4.29 Changsha building collapse incident
our staff used the equipment to monitor
evaluate and early warn the buildings on both sides

February 6 Turkey earthquake, using the equipment to
conduct risk assessment of undamaged buildings

Portable Circular Synthetic Aperture Monitoring Radar

The portable circular synthetic aperture monitoring radar, based on the principles of synthetic aperture radar (SAR) and differential interferometric radar (InSAR/DInSAR), has the advantages of all-weather, all-day, fast, high-precision, large-range, non-contact measurement, and easy to carry. It can meet the needs of precise deformation monitoring of slopes, dangerous rock masses, and geological disasters in mines. By reciprocating motionto obtain time series echo data of the observation area, and using interferometric radar technology to obtain high-precision displacement deformation information, which is transmitted to the numerical control display local or cloud terminal or user center through wired or wireless network to realize automatic monitoring, and early warning level judgment is made according to parameters such as displacement and displacement speed, and early warning is issued.

Product features

- Ultra-light and portable, easy to deploy
- Electric pitch and toss adjustment, wide coverage
- Quick positioning, orientation, and orientation
- Portable by a single soldier, the whole machine adopts an i ntegrated, lightweight, and low-power design
- Easy to operate, using a full Chinese interface, with rich setting parameters
- Three-dimensional presentation, with precise matching of radar images and three-dimensional terrain
- 360° full-range observation, high imaging resolution

Application scenarios

Since 2021, it has been put into operation in Unuergutuo Mountain Copper and Molybdenum Mine in Manzhouli, where the lowest temperature reaches -35°C. After experiencing severe weather such as strong wind, rainstorm, sandstorm, and heavy snow, the radar is still in good operation.

Participated in the "Emergency Mission 2022" earthquake relief exercise in Zhangye, Gansu. The instrument was featured on CCTV News.

Portable Sudden Geological Disaster Warning System

At the geological disaster emergency rescue site, due to the fact that the slope rock and soil structure still has a great possibility of instability, and it is often under severe weather conditions, secondary disasters such as rolling stones, mudslides, and collapses still occur frequently, and they occur suddenly, with a very short warning time. , posing a major threat to the safety of rescuers and equipment. Conventional methods such as visual observation by personnel and monitoring by photoelectric cameras have the limitations of high missed alarm rate, poor adaptability to severe weather conditions such as rain, snow, fog, and low light conditions such as night, and small coverage area. It is not suitable for the secondary disaster prevention needs of the emergency rescue site. The portable sudden geological disaster warning system adopts large-scale MIMO array technology and advanced moving target detection algorithm, which can continuously monitor large-scale slopes. This system has sensitive displacement detection and automatic alarm functions. When disasters such as landslides and mudslides occur, it can be issued in the first time. Early warning trive to secure precious moments of respite for the masses in the threatened area, and minimizing casualties and property losses.

Product features

- Good environmental adaptability,unaffected by climate conditions such as rain, snow, fog, etc., and light conditions such as strong light and night
- Wide coverage, fast update, and multiple areas, realizing monitoring of large areas and multiple areas.
- Dual-mode processing algorithm, which can detect and track slow-moving targets and fast-moving targets in the initial stage at the same time
- Quick positioning, can automatically and quickly obtain the accurate position coordi nates, orientation and inclination of the radar
- Portable by a single soldier, the whole machine adopts an integrated, lightweight, and low-power design. The operation is simple, using a full Chinese interface, and the setting parameters are rich.
- Three-dimensional presentation, with precise matching of radar images and three-di mensional terrain
- Precise alarm, which can realize distributed sound and light alarm linkage through the Internet of Things

Actual Application & Press Conference

The eighth press conference of the National Emergency Response Headquarters for the China Eastern Airlines Flight Accident was held. After on-site investigation and expert assessment organized by the on-site command headquarters, it is believed that there is a risk of landslide in the mountains around the accident site. In order to prevent secondary disasters caused by landslides, three slope radar monitoring stations have been set up in the mountainous areas around the accident site to monitor the surrounding mountains. The equipment monitoring accuracy can reach 0.1 mm. When large-area and fast-speed deformation is found, an early warning can be issued to alert personnel to evacuate.

Tank Fire Deformation Monitoring Radar

After the completion and commissioning of the oil and gas storage tank body, due to uneven foundation geological structure, different physical properties of the soil, atmospheric temperature changes, plastic deformation of the foundation, seasonal and periodic changes of the groundwater level, and the load and daily operation of the tank itself, the tank body will experience subsidence, displacement, and Tilt and other phenomena. In daily inspections and maintenance, slight subsidence and deformation are difficult to observe with the naked eye. Only when the unstable deformation accumulates to a certain extent and functiona obstacles occurs, it will be discovered. At this time, the deformation of the tank body is irreversible, and even major accidents such as floating disk tilt and tank overturning may occur. There are a large number of flammable and explosive materials and production equipment in the oil and gas storage area, and the accident risk is high, and the safety monitoring is difficult. Therefore, there is an urgent need for more accurate detection methods to monitor its deformation in real time and continuously, and to early detection the slight subsidence and tilt of the storage tank to eliminate potential safety hazards and ensure the safety of oil storage. This equipment can be networked with multiple units and work with other sensors, such as observing the temperature distribution of the tank surface through a thermal imager, monitoring the on-site wind speed, wind direction, temperature and humidity, etc. through a weather station, and transmitting it to the display control software for visualization fusion, so as to provide commanders with comprehensive on-site situation intelligence.

Product features

- Adopt active microwave technology, which can work all day and all weather, can penetrate smoke, fire and other scenes of fire, and is not affected by its occlusion and interference, with good environmental adaptability
- Adopt solid-state electric scanning radar system, which can cover 100°×40° scenes at the same time
- There are no mechanical moving parts during operation, and the data update rate reaches the second level
- Fine detection of tiny deformation of the tank body, and can also indicate rapid and sudden damage of structural components
- Optional satellite compass and inclinometer, which can automatically and quickly obtain the accurate position coordinates, orientation and inclination angle of the radar
- The whole machine adopts an integrated, lightweight, and low-power design, weighing no more than 8kg, which is easy to transport and deploy
- Support 4G/WiFi communication, multiple power inputs, lightning protection and other functions
- The display control software adopts B/S architecture and can be deployed on a single machine or cloud server
- Adopt a full Chinese interface, rich in setting parameters, and can add monitoring points and monitoring areas by yourself
- Can import 3D data of the tank body, has accurate matching of radar images and 3D scenes, adopts advanced rendering algorithms, and the intensity and deformation maps are directly superimposed on the 3D scene base map
- It has multiple monitoring curve displays such as cumulative deformation, deformation rate, rate reciprocal, and deformation acceleration, and can set alarm thresholds. It has alarm methods such as on-site sound and light alarms

Multi-mode Composite Deformation Displacement Monitoring Radar

This multi-mode solid-state multi-transmitting and multi-receiving surface micro-deformation monitoring radar adopts MIMO array technology and InSAR interferometric measurement technology. It features non-contact measurement, rapid scanning, continuous measurement, all-weather and all-day operation unaffected by clouds, rain, fog, and light, quick deployment/rapid imaging, small size, light weight, and handheld deployment. It can perform continuous or emergency monitoring and early warning of geological disasters such as large-scale landslides, collapses, debris flows, and rolling stones with high reliability and accuracy. It has a waterproof and shockproof design, adapts to harsh working environments such as the field, and can be used for continuous or emergency monitoring and early warning of geological disasters such as large-scale landslides, collapses, debris flows, and rolling stones. The radar adopts a solid-state electronically scanned system using multiple-input multiple-output (MIMO) imaging and differential interferometric measurement technology, which can cover a wide fixed range. It has no mechanical moving parts during operation, and the data update rate reaches the second level, which is more reliable. With a 360° PTZ, it can also realize remote electric control and adjustment of any orientation.Methylene blue

Product features

- Good environmental adaptability,unaffected by climate conditions such as rain, snow, fog, and lighting conditions such as strong light and night
- Adopt solid-state electronically scanned radar system, which can cover a wide range of scenes and update data quickly
- The whole machine adopts an integrated, lightweight, and handheld design, which is easy to transport and deploy
- Low power consumption design, high-precision real-time measurement
- Equipped with a high-precision two-dimensional PTZ and a framing camera, supporting 360° rotation in the horizontal direction and 120° rotation in the vertical direction
- Can automatically and quickly obtain the accurate position coordinates, orientation, and tilt angle of the radar
- Three-dimensional display, intuitive and clear, and corresponding to the real terrain

Laser displacement sensor

Using harmless laser ranging and tilt angle detection, it can accurately monitor any subtle movements of dangerous houses and other building structures (such as: ground, pillars, and walls) caused by fire, earthquake, explosion, collapse, etc., as well as natural disasters such as landslides. It adopts wireless background control technology, which greatly facilitates the deployment of monitoring instruments by firefighters. The ultra-loud sound alarm can notify firefighters to evacuate in a timely and effective manner. The monitoring background integrates the functions of power display, distance measurement, and angle display of each monitoring instrument, alarm monitoring, monitoring gear adjustment, and wireless transmission functions, providing information and alarm functions quickly and accurately.

Product features

- Support wireless transmission function, detection data can be wirelessly transmitted to the background receiving platform
- Combining displacement monitoring and tilt angle monitoring, it can monitor the slight movement of building walls and angle tilt in all directions
- With sound and light alarm function, support manual dissolve alarm signal
- Stepless multi-gear adjustment of monitoring accuracy
- Auxiliary observation light source, long-distance position
- Support Beidou and GPS dual-mode to locate
- Reserve 4G expansion function
- The laser displacement screen display data can be interconnected with the background receiving device

Dangerous houses caused by fire, earthquake, explosion, etc.

Slight movement of building structure

Natural disasters such as landslides

Multi-functional military chemical agent detector

Carried by individual soldiers, it is based on ion migration spectrometry technology and mainly used for the detection and alarm of air quality, chemical warfare agents (CWA), industrial toxic and harmful gases (TIC), volatile organic compounds (VOC), and on-site accidents. Drugs, explosives, and radiation.

Product features

- Detection of chemical warfare agents, industrial toxic gases, VOC gases, drugs, explosives, and x, γ-rays in one machine
- Intelligent algorithms for quick analysis and rapid alerts
- Real-time detection of drugs, explosives, industrial toxic gases, and chemical warfare agents with alert results displayed on the screen; equipped with built-in dust and moisture filters, as well as waterproof and moisture-proof consumables to ensure equipment dryness
- Non-destructive inhalation sampling and wiping sampling for quick analysis
- Real-time display of detection results with analysis and identification of different types of chemical warfare agents
- Self-check calibration function and real-time fault diagnosis function
- Self-cleaning and manual cleaning functions, real-time storage, retrieval, export of detection data, and support for USB backup
- One-touch power-on readiness without manual intervention
- Low power consumption for long standby time, suitable for prolonged use

Typical Applications

Security screening

Military chemical defense

Firefighting

Portable amphibious leakage current detector

Mainly used to detect power leakage and confirm the specific location of the leaked power, supporting the detection of AC electric field signals in various high-risk environments. It can automatically detect the strength of the electric field or voltage and can obtain a wide-angle AC field signal through sensors, automatically distinguishing between high sensitivity signals and low sensitivity signals through the program, and possessing the function of adaptively processing the strength of the induction signal.

Product features

- Sound and light alarm function, emitting different frequencies of sound and light indicators based on the detected electrical intensity for differentiation
- High-brightness OLED LCD display screen, real-time display of device power, leakage strength information, latitude and longitude information
- Low battery warning, providing an alert when the battery power is too low
- One-touch SOS emergency call for help function
- One-touch emergency lighting function, can be easily turned on or off
- Equipped with positioning function to detect whether the device is in motion or stationary
- Operating temperature can reach -40°C, making it more suitable for low-temperature and frigid regions
- IP67 high protection level design, suitable for both water and land use

Typical Applications

Environmental monitoring in water or flood disaster rescue

Leakage detection

Fire rescue

Multi-functional wireless composite gas monitoring instrument

A safety detection device that can continuously monitor various gases (volatile organic compounds VOC, TVOC, combustible gases, and toxic gases), using high-quality PID photoionization, electrochemical sensors, oxygen, catalytic combustion sensors, etc. It supports flexible sensor configurations to cater to the analytical detection needs of different industries.

Product features

- LCD display screen, sensors support plug-and-play
- Active pump suction type, with a built-in pump that can be independently turned on or off
- Alarm for sound, light, vibration, personnel falls, with the option for remote wireless alarm
- Direct counting function, real-time display of gas concentrations
- Supports setting of A1 alarm value, A2 alarm value, TWA alarm value, STEL alarm value
- Calibration function for targets above 2 levels, allowing for setting of calibration reference values, one-touch zero adjustment, automatic data storage, supports USB measurement data download and transfer
- Detection data can be transmitted via 4G to the on-site terminal, enabling real-time data acquisition and alarm status monitoring
- IP67 high protection level design, waterproof and dustproof
- Intrinsic safety explosion-proof design, ensuring safety and reliability

Electronic weather instrument

The LSJ series electronic weather instrument is an immensely powerful tool for measurement and data recording, capable of measuring wind speed, temperature, humidity, air pressure, wind direction, altitude, dew point, wind chill index, and other meteorological data.

Product features

- Multi-functional backlit LCD large screen display, allowing easy reading of detection data in backlit conditions
- Equipped with a strong polycarbonate lens and rechargeable battery for compact and lightweight portability, suitable for carrying in a pocket
- Sturdy and durable, featuring an IP67 fully waterproof and dustproof design
- Capable of measuring maximum wind speed and average wind speed, with one-touch switching support
- Features minimum, maximum, and average value display functions
- Includes data storage function for automatic or manual data storage
- Operates with a fully Chinese language operating system, ensuring ease of use

Raman Spectrometer

A high-performance Raman spectroscopy detector capable of rapidly identifying solid, liquid, and powdered unknown chemical substances on-site. Through mobile devices, it enables cloud-network-end IoT Raman monitoring and information retrieval. The new generation handheld Raman spectrometer boasts high sensitivity and optical resolution, widely applicable in emergency response, public safety, chemical detection, and various other fields and industries.

Product Features

- Utilizes a 785nm laser wavelength detector for direct testing of highly fluorescent contraband, providing rapid results
- Features a 5.7-inch industrial-grade capacitive touchscreen, supporting operation with wet fingers and gloves
- Excellent fingerprint specificity, accurately providing customs codes, categories, chemical composition of the tested material
- One-touch capture, fast non-destructive testing without the need for sample pretreatment or direct sample contact
- Can detect through transparent or semi-transparent containers like glass or sealed beverage bottles
- Allows customization of test parameters, selection of databases, adjustment of matching thresholds for different samples
- Adjustable laser power to automatically adjust the power based on material signal response sensitivity
- Optimized automatic mixed analysis algorithm for more effective identification of mixtures
- Equipped with WIFI, Bluetooth, GPS, and various communication methods
- Includes a multifunctional camera for recognizing QR codes, barcodes, capturing images of detected objects and the surrounding environment
- Features data storage, addition, retrieval, and export functions
- IP67 waterproof and dustproof rating, with a 1-meter drop resistance design

Typical Applications

- Hazardous chemical detection at accident sites, drug detection, unknown liquid detection, etc.

Nuclear Radiation Detector

This instrument utilizes a high-speed embedded microprocessor as the data processing unit, featuring a dot-matrix large screen LCD liquid crystal display for clear readings and easy operation. The detector is a large-area high detection efficiency disk-shaped GM Geiger-Muller detector, capable of conducting surface contamination checks for alpha and beta radiation, as well as monitoring X and gamma radiation dose rates.

Product Features

- Utilizes an efficient MICA Geiger-Muller detector
- Dose rate alarm threshold setting, with over-threshold alarms
- Flashing light and sound pulse frequency indicating radiation intensity
- Sound, vibration, and light alarms with real-time clock function
- Ultra-low power consumption design with real-time battery level indication
- Menu-driven operating interface
- Unit display in CPM, CPS, Bq/cm2, μGy/h, μSv/h
- Analog scale and digital display for clearer and more intuitive readings
- Unique slide-cover detector protection and radiation shielding plate
- Display for battery level, alarms, cumulative dose value, time information, measurement values, and analog scale

Typical Applications

- Surface contamination radioactive detection of objects
- Nuclear medicine, radiochemistry, molecular biology
- Detection of suspicious objects
- Radioactivity measurements for metals, construction materials, stone materials
- Customs inspections, port terminals, etc.
- Thickness measurement, material level measurement, flaw detection, irradiation processing, and other facilities.

SEED-RA radiation alarm

The SEED-RA radiation alarm device is primarily used by personnel in security checks, nuclear medicine departments, or those involved in radiation-related work. When wearing the alarm device in radioactive areas, personnel can effectively monitor the radiation dose absorbed by the body rapidly. This aids in promptly detecting any excessive radiation doses, ensuring the crucial safety of individuals involved in radiation-related work.The device utilizes SiPM scintillation detectors, achieving high sensitivity detection performance at a wearable scale. It can detect subtle radiation changes in the natural environment and respond swiftly to hazardous situations.

Product Features

- Compact, lightweight, aesthetically pleasing design with intelligent operation
- Ultrasonic integrated body technology, achieving IP67 water and dust resistance
- Multiple alarm modes including sound and light alerts
- Low power consumption design, with a standby time exceeding 80 hoursTypical Applications

Underwater sonar, multi-functional underwater scanning search and rescue identification system, underwater observation reconnaissance system

Easy to operate, fully Chinese operating system with dual-frequency scanning and structural scanning dual modes, strong impact resistance, suitable for complex underwater rescue environments, highly integrated, specifically designed for firefighting and underwater search and rescue.

LSJ SECURITY & RESCUE

Multi-function Underwater Scanning And Identification System

Utilizing EdgeTech's next-generation bathymetric technology, this system integrates and optimizes swath bathymetry and dual-frequency side scan sonar systems. This multi-phase bathymetric instrument can generate real-time, high-resolution 3D seafloor maps while simultaneously displaying side scan sonar images from the dual-frequency system. With 10 receive sensors and a separate transducer element, the system excels in suppressing multi-path effects and enhancing echo reflections, effectively eliminating common exposure height impacts in shallow water measurement environments.

Typical Applications

- Underwater search and rescue
- River and lake depth measurement
- Hydrographic mapping
- Military rapid environmental assessment
- Port security
- Deepwater wreckage search
- Route surveys
- Dredging operations

Underwater Observation And Reconnaissance System

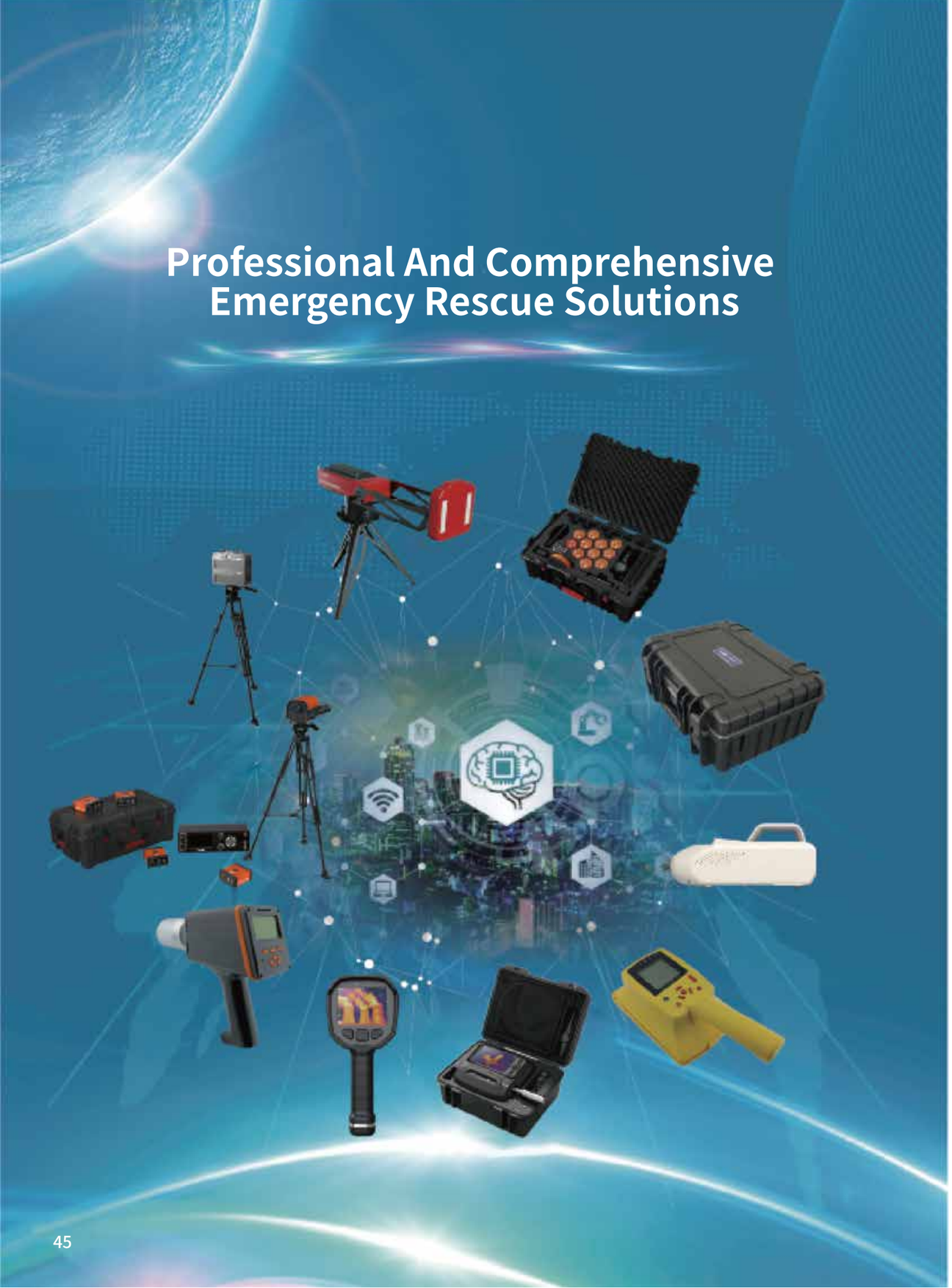
At the core of underwater searches lies the underwater robot, ROY, which finds widespread applications in marine research, offshore oil and gas development, mineral resource exploration, underwater salvage, and subaquatic rescue operations. ROVs represent a class of submersibles that embody the most mature, extensively used, and economically practical technology in the field. Currently, ROVs weigh as little as a few kilograms for small models and exceed 20 tons for large models, with operational depths reaching beyond 10,000 meters.

In inland rivers and lakes, models with operational depths of 50-300 meters are typically employed, while coastal regions commonly utilize models with operational depths of 50-400 meters, addressing over 90% of China's underwater application requirements.

Typical Applications

Water city security and rescue operations: Robots are employed by fire departments overseas for search and rescue missions, locating and salvaging deceased individuals. Through the use of underwater sonar for positioning and scanning of suspected objects, the system ultimately confirms rescue and salvage targets. It provides underwater location and depth reports, facilitating reporting and subsequent diving operations by divers.

Professional And Comprehensive Emergency Rescue Solutions



Intelligent Detection Cloud Platform

——Independently designed and developed——

The Intelligent Detection Cloud Platform leverages cutting-edge technologies such as the Internet of Things and big data to construct an intelligent comprehensive management platform integrating data collection, fusion analysis, and auxiliary command. It allows flexible integration of various sensor devices, achieving comprehensive awareness and situational control of rescue scenes, significantly enhancing rescue efficiency, and setting industry benchmarks.

War Time Command Center

For disaster site analysis, different online devices can be selected from the menu bar to synchronize data collected by devices on-site to the platform, facilitating decision-making by technical experts.

Training Evaluation and Drill Realization

Based on product equipment, detailed electronic learning manuals are created. Through training and learning, the platform assesses and evaluates the use and learning of equipment by trainees.

Equipment Management

Device entry, information editing, and status inquiry. Depending on the account, it displays the total number of devices and online counts according to the corresponding level, pushes maintenance reminders to responsible individuals based on product numbers and offline durations.