DOROLY
CYBER INTELLIGENT

PRODUCT CATALOGUE

Featured Products

Anti-Drone System	
Stationary Anti-Drone System	
DRS-BU001 Standard Anti-Drone System	
DRS-BU002 High-End Anti-Drone System	
DRS-BU003 Passive Anti-Drone System	
DRS-BU004 Base Security Anti-Drone System	
DRS-BU005 Advanced Passive Anti-Drone System	
Handheld Anti-Drone System	
DRS-BD003 Handheld Anti-Drone System	
DRS-BD004 Handheld Anti-Drone Jammer	

All specifications are subject to change without notice. Pictures for reference only.

info@doroly.com
www.doroly.com

Featured Products

Anti-Drone System	
DRS-BD005 High-End Handheld Anti-Drone System	
Anti-Drone Radar	
DRS-BR001 Drone Detection Radar	
DRS-BR014 Drone Detection Radar	
DRS-BR022 Drone Detection Radar	
Anti-Drone Jammer	
DRS-BD002 Directional Anti-Drone Jammer	
DRS-BD008 Full-Band Directional Anti-Drone Jammer	
DRS-BO004 Omnidirectional Anti-Drone Jammer	

info@doroly.com
www.doroly.com

Featured Products

Anti-Drone System	
Anti-Drone Camera	
DRS-BC011 Anti-Drone Tracking Camera	
Anti-Drone RF Detector	
DRS-BR002 Anti-Drone RF Detector	
DRS-BR016 Full-Band Anti-Drone RF Detector	
DRS-BR019 Handheld Anti-Drone RF Detector	
GPS Spoofing System	
DRS-BG002 GPS Spoofing Jammer	

info@doroly.com
www.doroly.com

Featured Products

Bomb/RF Jamming System	
DRS-BP009 Reactive Portable Jammer	
DRS-BS003 Reactive Stationary Jammer	
DRS-BL003 Reactive Convoy Jammer	
See Through Wall Radar System	
DRS-SV003 See Through Wall Radar System	
DRS-SV004 Portable See Through Wall Radar System	
DRS-SV009 Portable 3D See Through Wall Radar System	
Wi-Fi Interception System	
DRS-IM005 Standard Wi-Fi Interception System	
Intelligent Security Robot	
DRS-UR002 Remotely Operated Vehicle	

@info@doroly.com
www.doroly.com

DRS-BU001 Standard Anti-Drone System

DRS-BU001 Standard Anti-Drone System is designed against consumer-grade small rotor drones, merging long-range detection, jamming and record tracking functions into one system, for protection of key areas and response to threats from small rotor drones, e.g., illegal drone invasion, terrorist attack, and drug trafficking.

The system mainly consists of Detecting Unit, Jamming Unit and Camera unit. Detecting Unit is for detecting and tracking long-distance drones and leads Jamming Unit to interfere with the remote control circuits and navigation signals of drones and force them to land or return. Camera Unit can efficiently record the tracks of the detected drone for further analysis and assist the Detecting Unit for more accurate and effective monitoring.

DRS-BU002 High-End Anti-Drone System

DRS-BU002 High-End Anti-Drone System is an upgraded version based on DRS-BU001 for drone defense and critical area protection. Adopting advanced 3D pulse doppler radar, the system has extended detection range dramatically. The system mainly consists of Detecting Unit, Jamming Unit and Camera Unit.

- The Detecting Unit, which employs the advanced 3D pulse doppler radar, can detect and track long-distance drones, in both horizontal angle and vertical angle.
- Guided by the accurate drone position information, the Jamming Unit with tall antenna and low power jammer will interfere with the remote control signals and navigation signals of the drone and force it to land or return.
- The Camera Unit can efficiently record the tracks of the detected drone for further analysis, and also assist the Detecting Unit for more accurate monitoring.

DRS-BU003 Passive Anti-Drone System

DRS-BU003 Passive Anti-Drone System with sufficient detection range is the basic version of our anti-drone systems and has an obvious advantage in price. Due to its short production cycle, high-volume and high-quality production is available.

The system mainly consists of Detecting Unit (RF Detector) and Jamming Unit (Directional Jammer). Detecting Unit can detect and track long-distance drones and lead Jamming Unit to interfere with the remote control circuits and navigation signals of the drones and force the drones to land or return.

DRS-BU004 Base Security Anti-Drone System

DRS-BU004 Base Security Anti-Drone System is designed against consumer-grade small rotor drones, merging long-range detection, jamming and record tracking functions into one system. By virtue of advanced space-time adaptive processing technology, the system could provide continuous and accurate surveillance and monitoring within low altitude areas, with °360 coverage in azimuth and high coverage in elevation, to protect key areas and response to threats from invading drones.

The system mainly consists of Detecting Unit, Jamming Unit and Camera Unit. Detecting Unit is for detecting and tracking long-distance drones and leads Jamming Unit to interfere with the remote control circuits and navigation signals of drones and force them to land or return. The Camera Unit can efficiently record the tracks of the detected drone for further analysis and assist the Detecting Unit for more accurate and effective monitoring.

@info@doroly.com
www.doroly.com

Anti-Drone System - Stationary Anti-Drone System

DRS-BU005 Advanced Passive Anti-Drone System

DRS-BU005 Advanced Passive Anti-Drone System is an upgraded version of our passive anti-drone systems with longer detection and jamming range, providing all-around and full-band protection against a variety of drone targets.

The system has been designed and developed against consumer-grade small rotor drones, merging long-range detection, jamming and record tracking functions into one system, for protection of key areas and response to threats from small rotor drones, e.g., illegal drone invasion, terrorist attack, and drug trafficking.

The system mainly consists of Detecting Unit (Full-Band RF Detector) and Jamming Unit (Full-Band Directional Jammer). Detecting Unit can detect and track long-distance drones and lead Jamming Unit to interfere with the remote control circuits and navigation signals of the drones and force the drones to land or return.

Anti-Drone System - Handheld Anti-Drone System

DRS-BD003 Handheld Anti-Drone System

DRS-BD003 Handheld Anti-Drone System integrates detection, countermeasure, display, control and power supply all in one. Traditional anti-drone jammers have to rely on external detection devices or human visual searching to detect drones, these external devices require pre-operation assembly, and human visual searching causes a large workload and easily misses targets. However, with highly integrated detector, this anti-drone jammer overcomes these shortcomings and significantly improves the operational efficiency.

With small size, light weight and good mobility, the system is suitable for low-altitude protection tasks for important meeting, large event and daily patrol in fixed places. It offers quick response for cooperative deployment with other stationary anti-drone systems.

info@doroly.com
www.doroly.com

DRS-BD004 Handheld Anti-Drone Jammer

DRS-BD004 Handheld Anti-Drone Jammer has been specially designed with longer interference distance and wider coverage angles in both azimuth and elevation. This jammer integrates countermeasure, display, control and power supply all in one. It has powerful jamming performance against small drones to protect key low-altitude areas.

With small size, light weight and good mobility, this jammer is suitable for flexible and mobile low-altitude protection tasks for important meeting, large event and daily patrol in fixed places. It offers quick response for cooperative deployment with other stationary anti-drone systems.

DRS-BD005 High-End Handheld Anti-Drone System

DRS-BD005 High-End Handheld Anti-Drone System is an upgraded and comprehensive version of portable anti-drone system, which integrates detection, countermeasure, control and display all in one. It can effectively counter the new 4G and 5G drones within a long distance, forcing them to hover, return and drive away. The system is able to realize pre-warning, rapid disposal and evidence collection of the invading drones.

DRS-BD005 is small in size, light in weight and has good maneuverability. It supports multi-device AD hoc networking, multi-level interconnection with the back-end command and control platform of the anti-drone system. It also can be deployed in conjunction with other anti-drone devices to provide intelligent and integrated low-altitude security solutions.

@info@doroly.com
www.doroly.com

DRS-BR001 Drone Detection Radar

DRS-BR001 Drone Detection Radar is specially designed to detect the consumer-grade small rotor drones, for protection of key areas and response to threats from small rotor drones, e.g., illegal drone invasion, terrorist attack, and drug trafficking.

The radar employs the 3D Linear Frequency Continuous Wave technology with the unique algorithm focused on small RCS flying object, which is able to rapidly report the speed, distance, direction, altitude and other information of the invading drone.

DRS-BR014 Drone Detection Radar

DRS-BR014 Drone Detection Radar is specially designed to detect the consumer-grade small rotor drones, for protection of key areas and response to threats from small rotor drones, e.g., illegal drone invasion, terrorist attack, and drug trafficking.

As a 2D phased array radar, it has 2D large-angle phase scanning capabilities in azimuth and elevation and target three-coordinate measurement capabilities. It also adopts advanced space-time adaptive processing technology.

It could be installed in a fixed position or mounted on the vehicle to perform low-altitude monitoring and protection tasks, detect and track the invading drone targets, measure and report their position, distance, pitch, speed and other information in real time.

@info@doroly.com
www.doroly.com

Anti-Drone System - Anti-Drone Radar

DRS-BR022 Drone Detection Radar

DRS-BR022 Drone Detection Radar is a 3D pulse doppler radar with azimuth mechanism scanning and pitch phase scanning, which is mainly used to detect and locate low-altitude aircraft as well as moving vehicles and personnel on the ground.

As drone RCS* is quite small, usually around 0.01m ^{2} (the size of DJI Phantom 4 Micro Drone RCS is 0.01m ^{2}), it is especially difficult to detect drones. (*RCS: Radar Cross-Section (RCS) is a measure of how detectable an object is with radar. A larger RCS indicates that an object is more easily detected. An object reflects a limited amount of radar energy back to the source.)

The 3D pulse doppler radar we employed with the unique algorithm focused on small RCS flying object, is able to rapidly report the speed, distance, direction, altitude and other information of the invading drone. In addition to accurately detecting the spatial location of drone targets, the radar can also integrate and cooperate with other anti-drone devices, such as optoelectronic equipment, jammer, and GPS spoofer.

Anti-Drone System - Anti-Drone Jammer

DRS-BD002 Directional Anti-Drone Jammer

DRS-BD002 Directional Anti-Drone Jammer is specifically designed and developed to interfere the navigation signal of drone and block the communication link between the drone and its remote-controller by emitting electromagnetic waves, and thereby force it to land or return.

The jammer has the advantages of long-distance, wide-angle, directional jamming mechanism, etc., which could be equipped with a portable tripod or put on fixed installation. Thanks to short disposal time and low transmitting power, the jammer has small impact on electromagnetic environment.

@info@doroly.com
www.doroly.com

DRS-BD008 Full-Band Directional Anti-Drone Jammer

DRS-BD008 Full-Band Directional Anti-Drone Jammer is a software-defined jammer, which can customize the configuration of jamming frequency and jamming bandwidth according to the mainstream drone frequency band. It also supports independent or combined output of multiple jamming channels.

DRS-BD008 jams the drone satellite navigation signal or blocks the communication link between the drone and the remote control by emitting electromagnetic waves, then the drone will be forced to land or return.

DRS-BO004 Omnidirectional Anti-Drone Jammer

DRS-BO004 Omnidirectional Anti-Drone Jammer is specifically designed to neutralize drone and force it to land or return by transmitting electromagnetic waves to interfere the GPS signal of the drone and block the communication link between the drone and its remote controller. It focuses on all-round control over close range and key areas.

@info@doroly.com
www.doroly.com

Anti-Drone System - Anti-Drone Camera

DRS-BC011 Anti-Drone Tracking Camera

DRS-BC011 Anti-Drone Tracking Camera is equipped with built-in high-definition visible light fog-penetrating network camera and infrared thermal imaging camera, and adopts built-in intelligent target detection and tracking algorithm. It can realize -24hour continuous target identification and tracking in visible light, low illumination, severe haze weather, night and other environments.

Anti-Drone System - Anti-Drone RF Detector

DRS-BR002 Anti-Drone RF Detector

DRS-BR002 Anti-Drone RF Detector is specifically designed and developed to search and detect target activities within low altitude areas and other protection areas in all-direction and under all-weather. With multi-RF detector networking features, it could achieve direction and distance measurement of target drones and their controllers.

@info@doroly.com
www.doroly.com

DRS-BR016 Full-Band Anti-Drone RF Detector

DRS-BR016 Full-Band Anti-Drone RF Detector is mainly composed of array antenna, RF circuit, multi-channel synchronous receiver, GNSS positioning module, etc., to detect and find drones within full frequency bands. Based on AOA (Angle of Arrival) and TDOA (Time Difference of Arrival), DRS-BR016 has the functions of drone detection and early warning, model identification, positioning and tracking, and trajectory playback within and outside the range of multiple stations. Any number of detection equipment can be freely expanded according to the scope of the monitoring area.

DRS-BR019 Handheld Anti-Drone RF Detector

DRS-BR019 Handheld Anti-Drone RF Detector is specially designed for drone detection, early warning, precise positioning, trajectory tracking and pilot positioning. It provides full-band detection from 0.3GHz to 6GHz, and can achieve rapid frequency sweeping and the detection of suspected targets within full frequency range. It is able to recognize DJI drone serial numbers and can identify information such as location and altitude. Meanwhile, it also supports the image analysis function for analog image transmission FPV drones.

It is lightweight and easy to carry. It is applicable to scenarios such as security for major events, low-altitude security tasks for guards, patrol and defense of important sites, and accompanying protection for VIPs. It can work offline as a single unit, be flexibly deployed and respond in a mobile manner. Also, multiple sets of devices can be networked to meet the needs of various scenarios.

Anti-Drone System - GPS Spoofing System

DRS-BG002 GPS Spoofing Jammer

DRS-BG002 GPS Spoofing Jammer is specially designed and developed to interfere target drone's GPS signal and generate a fake GPS signal which could communicate with the target drone's GPS transceiver and guide it to a preset location.

This jammer could solve the particular situation very well that the drone is invading by GPS guide rather than controlling by pilot. Due to its highly efficient performance, this jammer is widely adopted to protect key areas and response to threats from small rotor drones, e.g., illegal drone invasion, terrorist attack, and drug trafficking.

Bomb/RF Jamming System

DRS-BP009 Reactive Portable Jammer

DRS-BP009 Reactive Portable Jammer is specifically designed and developed for protection of VIPs, Military/Security staffs and EOD teams from RCIEDs.

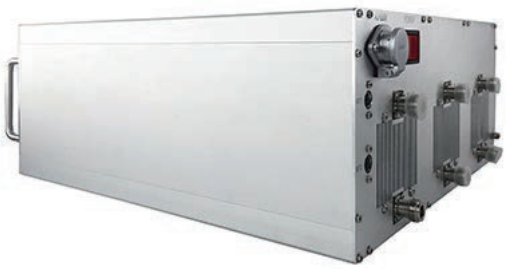
By adopting our latest jamming technique, digital scrambler jamming technology, the system can scan the wideband frequency range from 20MHz to 6GHz, which can further expand to 8GHz upon request. Once a threat signal is detected, the system transmits a jamming signal to neutralize the potential threat.

Our advanced jamming technology helps to save power for the whole system, and extends battery life up to 5 times longer (depending on the threat signal pattern). The total response time from detecting a threat signal to jamming the frequency is less than 200μs (depending on circumstances and requirements).

info@doroly.com
www.doroly.com

Bomb/RF Jamming System

DRS-BS003 Reactive Stationary Jammer



DRS-BS003 Reactive Stationary Jammer is designed for blocking remote controlled improvised explosive devices (RCIED) used by terrorist. Having considered the variety of jamming targets and the wide range of uncertainties, the more advanced and effective jamming signal modulation method is adopted, which significantly increases the jamming efficiency in each band.

By adopting our advanced and unique technology, the wideband frequency coverage of the system can range from 20 to 2700MHz (up to 6GHz based on requirements). In addition, automatic self-protection mechanism effectively supports stable operation and long service life by preventing the system from overheating and over-current.

DRS-BL003 Reactive Convoy Jammer

DRS-BL003 Reactive Convoy Jammer is specifically designed for protection of VIPs, convoys and high security premises against threats from possible terrorist acts of explosive devices through radio controlled detonation.

The system is simply the best way to defend military convoys and troops from the threats of radio-activated and road-side bombs. The fully integrated reactive jamming system provides the ultimate solution for Military and Police Convoys, and VIP protection.

By adopting the advanced jamming technology, the system can conduct ultra-fast detecting transmittance of radio signal within device operating frequency range and automatically spot jamming such signal. In addition, the system not only can optimally distribute jamming power along operating frequency range automatically, but is also equipped with built-in digital diagnostics system with alarms.

@info@doroly.com
www.doroly.com

See Through Wall Radar System

DRS-SV003 See Through Wall Radar System

DRS-SV003 See Through Wall Radar System is specifically designed for locating live people behind walls or optically nontransparent obstacles during protection operations, natural disaster rescue missions and avalanche recovery search. Owing to its outstanding features of long range, high resolution and strong penetrability, the system provides a powerful solution for many government agencies, e.g., military, law enforcement agency, drug enforcement agency, fire and police department.

System Advantages:

- Penetrate 40cm brick & concrete solid wall to detect target within 30m
- Detect and display multiple moving and static targets in real time
- High resolution: 0.3±m in distance, 0.3±m in orientation (depending on situations)
- Detect multiple targets with clear 2D display
- Work any time and in all-weather conditions. Performance will not be impacted by rain, haze, snow, dust, smoke or darkness
- Include Wi-Fi PAD for remote expert monitoring and analysis

DRS-SV004 Portable See Through Wall Radar System

DRS-SV004 Portable See Through Wall Radar System is a newly developed ruggedized portable through wall radar, aiming at applications in security and defense industry, e.g., protection operation, hostage rescue, indoor personnel searching.

The system can scan and detect the target area within seconds and display the accurate target number and the corresponding locations and positions in real time. Featured with high protective shell, light weight, user-friendly design, high penetration and fast response capacity, the system is an ideal solution with improved operation efficiency and outcome.

info@doroly.com
www.doroly.com

See Through Wall Radar System

DRS-SV009 Portable 3D See Through Wall Radar System

DRS-SV009 Portable 3D See Through Wall Radar System is a portable upgrade version, which is specially designed to achieve rapid target research in rescue, anti-terrorist and other emergency rescues.

It has the function of 3D positioning of moving and static targets, and can achieve reliable through-wall detection of common wall materials and rapidly search and position the targets. Due to its small size and light weight, it has been adopted in various application scenarios.

Wi-Fi Interception System

DRS-IM005 Standard Wi-Fi Interception System

DRS-IM005 Standard Wi-Fi Interception System is specifically designed and developed for law enforcement agency to monitor and identify information leaks in classified premises where access to Wi-Fi networks is available.

The system consists of 2 main modules:

- Cracking Module (Penetrator)
- Interception Module (Interceptor)

The system can work either in passive or active monitoring modes. In monitoring mode, the operator can see ALL network users (working, connected, or disconnected) within system coverage. The operator can create database of MAC addresses, signal levels, and all access points of users.

The system is able to scan for Wi-Fi stations and access points, capture 802.11a, 802.11b, 802.11g and 802.11n WLAN traffic, crack WEP or WPA/WPA2 passwords, display detailed per-node and per-channel statistics and IP connections statistics, and reconstruct HTTPs contents.

info@doroly.com
www.doroly.com

Intelligent Security Robot

DRS-UR002 Remotely Operated Vehicle

DRS-UR002 Remotely Operated Vehicle is powered by lithium battery, and equipped with more than six fully sealed maintenance-free oil-filled thrusters, which can realize flexible and free movement underwater. It is equipped with lighting, camera and other components to provide real-time video images and data for the operators of the dry end. With modular design, DRS-UR002 can be flexibly equipped with underwater pan-tilt, obstacle avoidance sonar, image sonar, robotic arm (single and dual function), etc. according to the specific requirements, to facilitate various underwater tasks.

@info@doroly.com
www.doroly.com

@info@doroly.com
www.doroly.com