



Product Catalogue



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Kirintec Catalogue – version 2. Every effort has been made to ensure this catalogue is accurate at the time of print (September 2016). We reserve the right to change, withdraw or add to our range without prior notice.



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# Trust us to provide QUALITY solutions

*Whether you are a returning customer to Kirintec or are discovering us for the first time - welcome!*

*Roy Peers-Smith  
Managing Director  
and Founder of Kirintec*



Passionate about what we do, we work tirelessly to help combat terrorism and criminal threats that may be typically faced by our customer groups:

- **Police and Military**
- **Special Forces**
- **Bomb Squads and First Responders**
- **Other similar organisations like private security firms**

If you are looking for solutions to prevent, detect, defeat and/or exploit, we are immensely proud of our extensive range of solutions.

*We are an international company specialising in Explosive Ordnance Disposal and Special Operations; we have offices in both the UK and USA and are ably assisted by around forty Agents across the globe.*

At Kirintec we provide technically advanced products with expertise that has been gained from over 155 years of working in the global defence and internal security markets in countries such as: Afghanistan, Iraq and Ireland to name but three. Coupled with this experience is our leading engineering team, who take great pride in innovating excellence in our specialist field. We genuinely believe that we are agile adapters who are one of the best - if not the best in the industry.

What's more if you can't see a product you are looking for in this catalogue, you may still want to get in touch, as we often design and manufacture solutions for some of our customers. Plus we're always innovating and bringing out new products, so the chances are that we may have what you need.

**Thank you for looking.**

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# EXCEEDING your expectations



Walter Scott House, Ross-on-Wye, UK

We undertake design work for some large global organisations, then they manufacture / brand products under their name, they won't tell you and they make sure we can't! So unknowingly perhaps you are already using a Kirintec product.

At Kirintec we are passionate about:

- **Quality.** We are an accredited ISO9001 company (certified until February 2018). Year on year we are committed to achieving quality, with excellence in the design, development, manufacture and support of specialist security equipment.

- **Design.** We design our own products in-house and sub-contract the volume manufacture to companies we know and trust.

- **Discretion.** We understand the need to safeguard secrets as we know the threats you face and look to work together with you.

- **Research.** In this fast paced industry it is important that we predict the trends to adapt our products. We are agile, readily able to adapt and provide quality bespoke solutions. It is this detail that our customers benefit from, as do Government Departments who commission us to undertake some research work on their behalf.

- **Exceeding your expectations.** We know that it is so much more than a product you are seeking, you need to trust our solutions, they need to perform as per the capability you expect and you can rest assured that we use our experience to advise on specifying complete systems, while assisting with their implementation.



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# Understanding the threat, ADVANCING the response

Kirintec Inc,  
Alexandria VA, USA



*Threats continually change. We research, predict and apply our knowledge from working at the front-line to fully understanding what is needed in the world of EOD and Special Operations.*

The range of equipment designed by us is geared towards this understanding. Everything without exception has been designed with the input of subject matter experts covering:

- PREVENT
- DETECT
- DEFEAT
- EXPLOIT

The internet has allowed terrorists to proliferate quickly and effectively, as well as deliver a sustained campaign to gain political support and influence radical behaviour.

In response to this step change in global threat countermeasures have evolved into one that is more holistic in its approach and one that can be applied across a broad spectrum of scenarios.

The impact that this has had on coalition TTPs and equipment has been to shift towards a lighter more agile capability, so that assets can be scaled and deployed both at home and overseas at short notice.

Much of what has been developed was designed to solve issues encountered in recent years such as the proliferation of RCIED's, the ability to communicate while jamming and importantly an emphasis on 'lightening the load' and battlefield agility.

We are proud to work with our customers across the globe to deliver bespoke solutions.

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# Electronic Countermeasures

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Your safety is paramount. REBUS has been tested by many Governments

## REBUS jammer system

This simple to use electronic countermeasure has no impact on communications, making REBUS ideal for First Responders to use in public places.

Some of the benefits include:

- Mitigating the risk of a remote controlled explosion
- Bridging the gap between a first response and imminent arrival of an EOD team
- Mobile phone networks remain fully operational
- VHF / UHF communications between response teams function normally
- Does not impact on EOD operations

### How REBUS works

A REBUS system consists of a battery powered RF inhibitor which contains a microprocessor controlled signal generator, this is then connected via an RF cable to one of a number of different enclosures (pop-up tent, inflatable tent, blanket or bin) that cover the device depending on the scenario requirements.

All variations of enclosure contain a lining of copper coated polymer which provides a 'faraday cage' effect when placed over the device thereby providing some level of screening of the device receiver.

This screening alone is not enough to block hostile signals so each

enclosure also contains a specialist antenna which allows the RF inhibitor to transmit a low power jamming signal inside the enclosure.

This effect of screening and low power jamming provides a very high level of effectiveness against high power threats at unrealistically close trigger distances and has been tested by many Governments around the world with impressive results.

REBUS is now in widespread deployment in many locations as there is no other system in the world that is designed to bridge the gap between finding a suspect package and the arrival of an EOD team. REBUS has been granted patents around the world as a result.

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Communications' devices around the safety cordon are unaffected when using REBUS

#### REBUS is easy and effective to deploy

All that is required is for the security professional to cover the suspect package with the appropriate REBUS enclosure, then connect the RF Inhibitor box to the enclosure with the RF cable supplied.

Unlike conventional ECM jammers REBUS does not transmit lots of uncontained spurious RF energy, so it can be used in complex urban environments without impacting on friendly local signals such as mobile phone networks, emergency service radio systems and Wi-Fi. For this reason it is often used on public transport, at major events and in Government buildings.

When REBUS is switched on it will run through its own built-in test procedure. All the user has to do is to press the green 'on' switch which will initiate a one minute evacuation period to allow the person to walk away to a safe area.

REBUS will then slowly increase (to avoid a sudden jolt of energy), to potentially unstable devices for example those using servos, the RF energy over the next minute until it is fully jamming the target. The outside of the RF inhibitor will display the status of the unit (operational, standby, battery issues, etc) with ultra-bright LED indicators so that these can be observed from a distance with binoculars.

#### The REBUS Low Power RF Inhibitor

##### A single box solution

This much talked about popular inhibitor simultaneously covering threats in the frequency range 20MHz – 2.4GHz including GSM and 3G and 4G mobile phones, popular VHF PMRs and UHF PMRs (hand-held radios and walkie-talkies) and Wi-Fi.

As REBUS is positioned right next to the device, the inhibitor only needs a low power signal source to overpower a much stronger trigger signal transmitted from a distance. In tests the inhibitor repeatedly killed high-power PMR signals at unrealistically close proximity. Typically REBUS is used in:

- Government buildings
- Airports
- Other mass transit locations
- REBUS is very simple to operate and its status can be observed from a distance.

**Inhibitor size:**  
28.5 x 24.5 x 2.5mm

**Closed:**  
(11 x 10 x 5 inches)

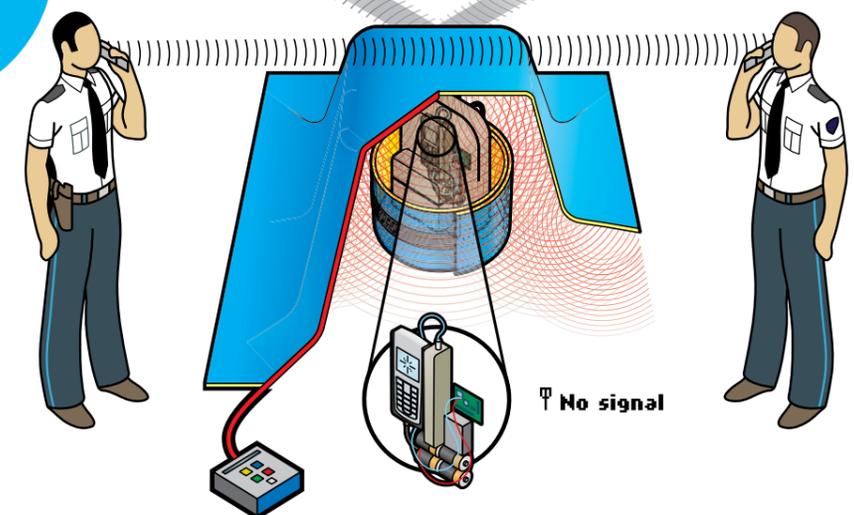
**Inhibitor weight:**  
3.5kg (7.7lbs)

*Each REBUS comes with a battery pack and charger, we have listed the option of buying additional chargers at the end of this section.*

**Power:**  
**Internal rechargeable**  
Ni-Mh battery with approx 3+ hours of runtime

*Further technical information is RESTRICTED and is only available to qualified individuals and approved Government Agencies.*

REBUS minimises the risk of the RCIED being detonated



#### REBUS jammer system

The electromagnetic screening material in REBUS is a two-way barrier, filtering incoming signals and containing the electronic countermeasure signal inside the system. The shield contains the inhibition, meaning all the power is employed against defeating the remote transmission signal which would be used to initiate the RCIED.

#### REBUS has two components:

The RF inhibitor (low power jammer)

This is used with one of the following RF enclosure configurations:

- A Pop-up ballistic tent
- B Pop-up tent
- C Inflatable tent
- D Blast blanket
- E Blast bin



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## REBUS 2

### The best jamming technology for First Responders

Choose REBUS 2 if you want internationally acclaimed technology and effective jamming capability, without impacting upon essential communications.

REBUS 2 inhibition is an ideal solution to use in public places. As a renowned electronic countermeasure, it is devised to cleverly defeat radio-controlled improvised explosive devices, doing so without impacting upon local signals. Subsequently this allows friendly use of:

- radio systems
- Wi-Fi
- mobile phone networks
- Walkie-talkies
- among others

#### Benefit from deploying REBUS 2

You tell us this a huge benefit to emergency services and the general public in the vicinity, for example at:

- sporting events
- concerts
- Government buildings
- airports
- train stations - or similar
- VIP protection scenarios
- Sites of critical infrastructure and importance

### Specifications

#### Orange Inhibitor

- Unit IP 65
- Stored within a 1300 Peli case (270mm long x 246mm wide x 174mm deep)
- Weighs less than 8kg

#### Red ballistic tent

- 650mm tall
- Footprint 650mm square
- Weighs 6kg
- 3m length connecting cable



### Special features

The ballistic part has 10 layers of Spectra shield™ woven into the four panels.

This provides a fragmentation screen offering lateral protection.

Normal EOD standard operating procedures are unaffected by deploying REBUS.

## REBUS ballistic tent

### Covers suspect bags without making contact

#### Quick to deploy:

The ballistic tent is flexible, lightweight and a quick to deploy REBUS enclosure.

It is ideal for everyday use particularly in environments such as public transport or mass transit systems.

The tent is designed to be able to cover a full size suitcase either standing up or laying down.

The tent features a disrupter access port. This contains a transparent RF shielded inspection port, to allow an EOD operator to inspect a device without removing the tent or compromising the RF integrity of the system.

If required a disrupter can be deployed through the screening material to carry out a render safe procedure with the tent in place.

The tent has no impact on X-rays which can be taken through the tent. It does not effect image quality or wireless X-ray systems.

#### Locations such as:

- Airports
- The entrance to a Government building
- Deploy on mass transit systems.

#### Reassurance:

The tent covers bags, suitcases or similar, up to 77cm x 60cm x 28cms (30" x 24" x 11") so is ideal for use in airports, train stations, metro systems and other crowded places.

**A bomb disposal team arriving on scene has the immediate assurance that any potential radio controlled improvised explosive device (RCIED) has been safely isolated.**

Visual inspection can be made through the disrupter access port using a torch and the nature of the suspect device may be verified by X-ray through the tent walls.

A disrupter can then be precisely aligned and fired through the access port to target the device inside.

### Specifications

- Dimensions 650 x 650 x 65mm
- EOD fragmentation specification V50 rating of 300m/s
- Weight 7.8kg



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Port to allow inspection

## REBUS pop-up tent

Covers suspect bags without making contact

### The REBUS RF shielded pop-up tent

The pop-up tent is a fold flat flexible, lightweight and quick to deploy REBUS enclosure. It is ideal for everyday use particularly in environments such as public transport or mass transit systems. The tent is designed to be able to cover a full size suitcase either standing up or lying down.

The tent features a disrupter access port which contains a transparent RF shielded inspection port to allow an EOD operator to inspect a device without removing the tent or compromising the RF integrity of the system.

If required a disrupter can be deployed through the screening material to carry out a render safe procedure with the tent in place. The tent has no impact on X-rays which can be taken through the

tent with no impact on image quality or effect on wireless X-ray systems. The tent therefore has no impact on normal EOD standard operating procedures.

The REBUS pop-up tent option is an ideal choice for static screening locations such as; airports, the entrance to a Government building or for teams to deploy on mass transit systems.

### Features:

The tent covers bags up to 77cm x 60cm x 28cms (30" x 24" x 11") so is ideal for use in airports, train stations, metro systems and crowded places.

A bomb disposal team arriving on scene has the immediate assurance that any potential radio controlled improvised explosive device (RCIED) has been safely isolated.

Visual inspection can be made through the disrupter access port using a torch and the nature of the suspect device may be verified by X-ray through the tent walls.

A disrupter can then be precisely aligned and fired through the access port to target the device inside.

**Pop-up tent size:**  
650 x 65 x 650mm  
(25.5 x 2.55 x 25.5 inches)  
**Tent weight:**  
6kg (13.2lbs)  
**Blast protection:**  
NONE



**Inflatable tent size:**  
1310mm x 1310mm x 710mm  
(51.5 x 51.5 x 28 inches)  
**System weight:**  
9.5kg (21lbs) includes  
backpack and canister  
**Blast protection:**  
NONE

REBUS stored within non-descript backpack

## REBUS inflatable tent

Lightweight and fast to deploy ideal for use in public places

Easy to erect from the storage backpack and connect to the inhibitor. REBUS is an ideal choice for major events, flyaway ops and/or rapid response situations.

REBUS is also useful where space is limited such as in light-scale EOD or search team response vehicles.

The inhibitor slowly increases the RF power over 60 seconds, giving the operator time to walk away from the device in safety and without touching it.

The REBUS inflatable tent is ideal for use in public places:

- Post rooms
- Airports/Stations
- Conference Centres
- National security events
- Areas of critical infrastructure
- Public and sporting events

The inflatable tent was developed at a Government request after an attack at a major sporting event. This innovative product was designed to provide a very rapidly deployable solution for suspect packages - many of which are misplaced or dropped in panic in the event of an attack.

The REBUS tent uses a low cost disposable CO<sub>2</sub> gas canister to inflate a tent structure in less than 20 seconds; this then stays inflated for up to 24 hours.

The REBUS tent is deployed from a non-descript black backpack which also contains the RF inhibitor and battery, yet weighs only 21lbs (9.5kgs) including the inflation canister.

This popular product features an access port which contains a transparent RF shielded inspection port to allow an EOD operator to

inspect a device without removing the tent or compromising the RF integrity of the system.

If required a disrupter can be deployed through the screening material to carry out a render safe procedure with the tent in place.

The tent has no impact on X-rays which can be taken through the tent with no degradation of image quality or effect on wireless X-ray systems. This means that our REBUS tent has little impact on normal EOD standard operations.



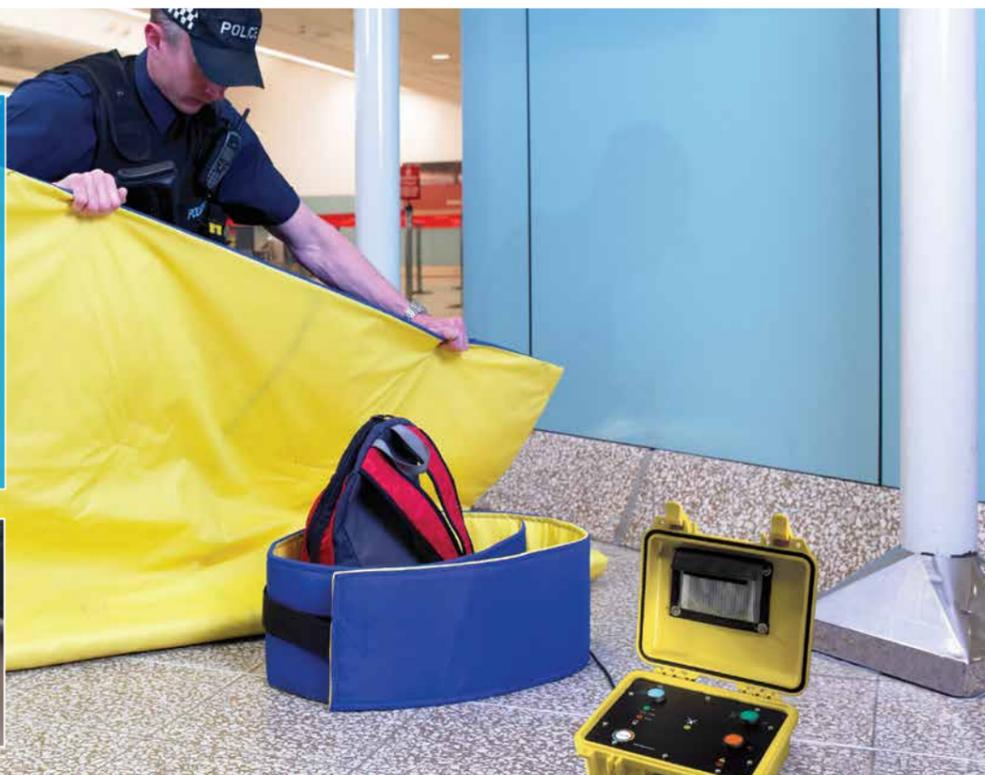
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**REBUS blast blanket with RF shielding**  
**Blanket size:**  
 1500 x 1500mm (59 x 59 inches)  
**Blanket weight:**  
 14.5kg (32lbs)  
**Collar size:**  
 1900 x 200mm (75 x 8 inches)  
**Collar weight:**  
 2.5kg (5.5lbs)  
**Protection:**  
 V50: Fragmentation velocity  
 500m/sec (1,640ft/sec)



## REBUS blast blanket

An effective ECM system that has no impact on communications

Our REBUS blast blanket works in exactly the same way as the tent type enclosures, except that it also contains several layers of Kevlar® to provide the functionality of a high specification bomb blanket and the functionality of a REBUS jamming system in one easy deployed blanket.

The REBUS blanket provides a very high standard of ballistic protection at V50 Fragmentation velocity of

500m/sec. We have ballistic test data available on request. The blanket is supplied with a fragmentation collar that is also RF screened.

The Kirintec REBUS blanket has been used with good effect on the windshield of a suspect car to isolate it, although the factors of the receiver sensitivity and transmitter power and distance must be taken into account in a scenario like this.

The blast blanket is supplied with a handy nylon carry bag and is ideal for:

- Covering suicide bombers where there may be a secondary RC trigger mechanism
- Unconventional shaped suspect package
- Abandoned suspect vehicle
- VIP protection

## REBUS blast bin

Ideal for use in sensitive locations

REBUS blast bin with RF shielding.

Ideal for use at:

- Sensitive locations or where surrounding property has special value
- Airports and other mass transit stations
- Postrooms

**Bin size:**  
 900 x 538 x 18mm  
 (35 x 21 x 0.7 inches)  
**Bin weight:**  
 55kg (122lbs)  
**Max charge capacity:**  
 500g / 18oz PE



## REBUS options and accessories

An effective ECM system that has no impact on communications

### REBUS confidence checker

"How do I know it's working?" is a common question asked about ECM, since you can't see or feel it working and it only does its job at the most critical of times.

In our laboratories and during installations we use expensive and sophisticated spectrum analysers, but these require a high degree of knowledge to be used properly and are not always practical for use in the field.

In response to this issue a REBUS ECM confidence checker has been developed. This can be supplied pre-programmed or we can supply software so a user can program it.

Our REBUS confidence checker works by scanning the frequency range in question and compares it against its pre-programmed threat parameters. If it does not detect the correct RF present, it will alarm and notify the user.

Although the system is used with REBUS it can also be used with our entire Mercury range of systems. It can be belt work or vehicle dash mounted for maximum flexibility.

The system is designed to be environmentally protected and is robust enough for use in harsh environments unlike a spectrum analyser.

The kit contains: Handheld unit, mains adaptor/charger, USB lead, SD memory card, memory card reader, support CD and instruction manuals.



### External battery pack

Takes 16 x AA alkaline batteries to provide approx 4+ hours additional operational life of the REBUS Inhibitor

Part No	Description	NSN
KT-950-009	Entire REBUS 2 system	
KT-950-096	REBUS 2 orange inhibitor	
KT-950-098	REBUS 2 ballistic tent	
KT-966-003	REBUS 2	
KT-409-111	REBUS pop-up tent and inhibitor (1800 GSM)	5865-99-346-4625
KT-409-115	REBUS pop-up tent and inhibitor (1900 GSM)	
KT-409-123	REBUS inflatable tent and inhibitor (1800 GSM)	
KT-409-124	REBUS inflatable tent and inhibitor (1900 GSM)	
KT-409-102	REBUS blast blanket and inhibitor (1800 GSM)	1385-99-836-4579
KT-409-110	REBUS blast blanket and inhibitor (1900 GSM)	
KT-409-106	REBUS blast bin and inhibitor (1800 GSM)	1385-99-725-4183
KT-409-113	REBUS blast bin and inhibitor (1900 GSM)	
KT-409-107	External battery pack	6140-99-852-5959
KT-409-108	Inhibitor battery charger	6130-99-155-5770
KT-409-576	REBUS confidence checker	



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# Mercury

Our Mercury range of products allows you to communicate with unmodified VHF/UHF radios on the same frequency you are jamming. Our modular design allows for expansion.



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## Communications through inhibition



# Mercury ECM

## A powerful programmable jammer for demanding environments

The Mercury range of electronic countermeasures systems (ECM) is designed to provide a wide range of practical enhancements over existing jamming systems available today.

At the heart of each system are ultra-fast, powerful and versatile signal sources that can be programmed to suit the local threat environment and can be upgraded in modular increments to increase system coverage or address new threats.

### Importantly Mercury provides:

- A suite of permanent inhibition systems available in vehicle or man-portable options
- Continuous fully programmable jamming coverage from 20MHz to 6GHz

- **Patented communications through jamming (CTI) technology that allows you to talk and jam at the same time**
- **Ultra-fast agile signal generation technology within all products in the Mercury range**
- **4G LTE ready**

Each Mercury system is available with or without integrated communications.

Integrated communications provides a true communications through inhibition (CTI) capability which allows a specific frequency to be jammed while communicating on the exact same frequency. This is the first system available in the world that offers this capability and eliminates a long standing issue of your own jamming system inhibiting your ability to communicate with your team.

Mercury is available in a number of variants all employing the same core technology:

- **BLADE - Vehicle mounted very high power high assurance modular jamming system**
- Or
- **VENTURA manpack - A high power man-portable carry forward system with detachable battery cage.**
  - **VENTURA dock - An optional vehicle docking station for use with a VENTURA manpack which adapts it for use as a high threat vehicle mounted system**

# Mercury features

**Mercury BLADE and VENTURA have the following common features across the range:**

### Signal Source

At the heart of each Mercury system is our core signal source architecture which comprises of an ultra-fast and highly flexible programmable digital signal generation engine operating at a very high clock speed.

### Modular system architecture

This allows each system to be tailored to suit your local operating requirements. It also means that extra frequency bands and signal generation technologies may be retrospectively introduced should new threats evolve.

### 20MHz to 6GHz frequency range

Coverage is offered from 20MHz to 2.7GHz as standard in all Mercury ECM systems and generally incorporates a number of modules:

- **Low band module - 20MHz to 520MHz**
- **Mid band module - 520MHz to 2.7GHz**

These modules can be mixed and matched within BLADE depending on threat assessment.

VENTURA is normally supplied with 1 off low band module and 2 off high band modules although these can be varied on request.

An optional high band module is available:

- **High band module - 2.7GHz to 6GHz**

The optional high band module may be specified at the time of ordering for BLADE or VENTURA or alternatively can simply be installed in BLADE as a retrofit to extend the range to up to 6GHz. This can be achieved with the VENTURA manpack or VENTURA Dock but does require the systems to be returned to the factory for an upgrade. The core technology is a

digital microprocessor controlled fully programmable signal generation source. You can configure Mercury to target all known threats including: VHF/UHF, public communications' systems (such as GSM, 2G, 3G, 4G and satellite based networks) and any other areas of vulnerability, depending on your local threat assessment.

### High efficiency amplifiers technology

Another key component in any ECM system is the amplifiers. Ours are custom designed for Kirintec systems and use very high efficiency GaN based components for maximum power output and robustness (enough to withstand a broken antenna). These reduce the heat generated and minimise the impact on portable battery life or the host vehicle electrical power supply system. All power management is under intelligent software control.

### Self-testing

All Mercury systems have extensive software monitoring of all parameters and can detect and alert the user to issues such as antenna faults, low batteries and other alarm conditions all of which are constantly monitored. You may not see or know it but

**Mercury systems are checking their performance parameters several times a second to ensure the system is at optimal performance.**

All systems also incorporate a unique Voltage Standing Wave Ratio technique to monitor antenna status and effectiveness.

### Security

Including extensive anti-tamper features and a 'zeroise' function to allow rapid removal of any sensitive 'software fill' programming.

### Ruggedised

All Kirintec Mercury systems are designed to meet military standards for rough handling and are environmentally protected for use in the harshest theatres of conflict.

User configured to target local threats, all of our Mercury systems are fully programmable across their entire frequency range.

Normally we would supply a 'software fill' based on localised threat information you provide us, but systems can also be user programmed using the intuitive GUI programming software. This allows complete control over jamming frequencies, power levels and other parameters to be defined while providing visual feedback on resource allocation against targets. The resulting ECM configuration files can then be stored and loaded into any Mercury system.

### Training and support

We have provided all levels of training and support on our Mercury systems in many different areas of the world. These range from peacetime urban environments to operational army units in hostile environments.

### Optional communications through inhibition

All of our Mercury systems are available with our optional patented Xchange communications through inhibition (CTI) system which allows communications with unmodified radios on the same frequency you are jamming. Most radio systems will work through Xchange including PMR's and military CNR types system operating in frequency hopping and or secure encryption mode.



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Mercury offers modular flexibility



## Mercury BLADE 4

### Vehicle installed jamming system

The Mercury BLADE vehicle installed jamming system is designed as a high assurance ECM unit for force protection and or VIP protection. The system uses a modular 'blade' based distributed architecture design which allows a varying combination of frequency modules to be 'plugged and played' according to the local threat thereby providing a system which is adaptable as the threat evolves or for operations in different geographic locations.

Depending on the combination of modules fitted BLADE can deliver up to 500watts of RF power derived from its very fast signal source design making it highly effective at defeating even hard to kill threats such as 4G or spread spectrum type signals.

The Mercury BLADE system provides a very flexible ECM platform that ranges from 20MHz to 6GHz in a single box solution. BLADE is designed to be highly adaptable, with each 'blade' module consisting of an ultra-fast signal source and amplifier matched to its frequency range that can then be easily added or removed from a 'blade' master rack.

Mercury BLADE modules are available in the following frequency bands all of which are fully programmable across the entire frequency range with no gaps:

- Low Band - 20MHz to 520MHz
- Mid Band - 520MHz to 2.7GHz
- High Band - 2.7GHz to 6GHz

### Modular flexibility

Once fitted to a 'blade' master rack each module is controlled via the Mercury Control Module (MCM) which automatically recognises the BLADE modules fitted and configures the overall system accordingly. The system allows BLADE modules to be removed or fitted in minutes with no reconfiguration of the system required at all by the user. This makes the Mercury BLADE system future-proof. As a new threat emerges or recedes in an area, the BLADE modules can be changed to suit the current threat assessment if they are outside the current operating frequency range.

Additionally, BLADE modules can be doubled up and /or specifically programmed against a high threat hard to inhibit device. For example a common configuration may be to have

two off low band modules and two off mid band modules. One of the low band modules can be programmed to defeat a wide range of common threats while the second low band module can be programmed to specifically target high threat devices operating in the VHF band. Simultaneously the two mid band modules can each be programmed to attack different threat ranges with one assigned to cover a wide range of targets while the other is designated to inhibit just 4G (LTE) threats.

This type of modularity and programmability means the system can be configured for maximum protection against any given environment in which it is placed.

Mercury BLADE systems are primarily designed to be used in vehicles. If the optional static installation kit is specified they can be static mounted at key vulnerability points such as vehicle checkpoints at main gates.

### Communications through inhibition

BLADE can be fitted with the optional communications through Inhibition functionality to allow Interference free communications while jamming.

### Remote control unit - RCU

Mercury BLADE can be fitted with an optional Remote Control Unit (RCU) which provides duplicate functionality of the main system controls at another location within the vehicle.

The RCU houses the optional Xchange communications module if it is specified since it allows placement of this adjacent to other radio systems and or front passengers within the vehicle.

### Antennas

Mercury BLADE systems are normally supplied with appropriate antennas to suit the frequency range of the modules that have been specified.

If we are carrying out the installation work then we will arrange polar plots to ensure that antenna placement is optimised for the specific vehicle. Our range of antennas are fully ruggedised and can be driven at high speed with no degradation.

### Vehicle installation

Mercury BLADE has been installed in a wide range of vehicles including: armoured military vehicles, soft skin or armoured SUV's and armoured limousines.

BLADE is highly efficient and compact so it can be fitted in a range of spaces with minimal impact on vehicle ergonomics and cooling systems. Our support teams are available to advise or arrange fitting in any area of the world. In many instances we can provide turnkey solutions by providing any vehicle type with the BLADE system already installed. BLADE runs directly from a 24V DC vehicle supply

and so will run directly from a military vehicle power supply. If required to be fitted to a smaller vehicles such as a SUV or limousine then it is recommended to use the Power BRICK® vehicle installation power conditioner.

Our team has worked in all areas of the world and is very experienced in installing, commissioning and supporting our Mercury range in all types of vehicles and all types of environments.

We are often asked to come to the country you are based and fit our impressive jammers within vehicles such as limousines, tracked/armoured vehicles. We offer the flexibility of installing our technologies yourself. Typically we assist our customers from the Military through to private security professionals with providing bespoke solutions.



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## Mercury BLADE 5

### The best keeps getting better!

BLADE 5 is the most sophisticated flexible and powerful vehicle platform for jamming systems.

BLADE 5 is fully programmable with each modular BLADE providing focused jamming capability to a specific region of the RF spectrum. With over 500 Watts of power at your fingertips and one of the fastest DDS jamming engines available in the world BLADE 5 will give you the capability you demand.

Mercury BLADE modules are available in the following frequency bands all of which are fully programmable across the entire frequency range with no gaps:

#### Standard

- Low Band - 20MHz to 520MHz
- Mid Band - 520MHz to 2.7GHz

### Contents

Mercury BLADE vehicle mounted radio frequency inhibition system 20MHz to 2.7GHz:

Comprises of the following:

- 1 x Mercury BLADE (ECM) system
- 1 x Remote control
- 1 x Omni antenna et
- 1 x Cable set & fittings
- 1 x Shock mount tray & fittings
- 1 x Full integration package
- 1 x Software configuration CD
- 1 x Commercial fill
- 1 x Operator and user manuals in Arabic
- 1 x Data cable

### Specifications

- Dimensions  
450mm x 420mm x 250mm
- Weight  
45kg
- Shipping dimensions  
700mm x 700m x 410mm
- Shipping weight  
60kg

### Enhanced option

- High Band - 2.7GHz to 6GHz

Mercury system characteristics	BLADE 5 ECM
Frequency range - standard	20MHz - 2.7GHz
Frequency range - extended	20MHz - 6GHz
RF Power output - user controlled depending on configuration	Up to 500W
Voltage in	20-35V
Integrated communications	Optional
Encrypted communications	Optional
Operating temperature range as standard	-20°C to +60°C
IP 65 environmental protection	Yes
Programmable	Yes
Built-in self test	Yes
Anti-Tamper	Yes
Zeroize	Yes
Remote control unit	Yes
Weight (main unit only)	from 41kg depending on options
Vehicle shock-mount tray	Included
Antenna set	Omni
Vehicle integration kit	Yes
Programming files and transfer device	Yes

Part No	Description	NSN
KT-913-027	BLADE high power vehicle ECM (Please contact us for advice on a configuration to meet your frequency requirements) includes vehicle mounted antenna set.	
KT-913-227	BLADE high power vehicle ECM (Please contact us for advice on a configuration to meet your frequency requirements). with Xchange communications through inhibition CTI capability. Includes vehicle mounted antenna set.	
KT-913-XXX	BLADE high power vehicle ECM (Please contact us for advice on a configuration to meet your frequency requirements) includes vehicle mounted antenna set.	NSN 5865-99-580-4413

Please specify at the point of ordering if you wish to purchase BLADE 5 or BLADE 4



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VENTURA  
preserves life

Gives user confidence with CTI capability



3 in 1  
VENTURA  
Carry forward,  
vehicle &  
backpack  
solutions

Carry forward unit for EOD scenarios

## Mercury VENTURA man-portable

VENTURA is the first technology that truly provides flexibility. Offering you configuration options of carry forward, vehicle or backpack operations - all in just one system.

With an impressive coverage range available, every VENTURA provides three fully programmable signal sources; allowing you to fully experience communications through inhibition and do so safely.

- Carry forward unit for EOD or checkpoint scenarios
- Mounted in a vehicle Dock for mobile patrols
- Mounted in a 'backpack' frame for foot patrols

The Mercury VENTURA man-portable range of electronic countermeasure systems has been designed to offer a combination of maximum effectiveness, minimum size weight and power

(SWaP), the flexibility of a modular design, and access to Kirintec's patented Xchange communications through Inhibition technology to enable simultaneous communication and jamming.

### One unit - many roles

VENTURA systems can be deployed in either man-portable mode or with the optional VENTURA vehicle Dock used as a high power tactical vehicle based system.

Man-portable systems are compact and powerful generating up to 45watts of power when used in carry forward mode and mated to one of the VENTURA battery cage portable power systems.

When the battery cage is removed and the VENTURA unit is fitted to the optional VENTURA vehicle dock the power output is boosted to 270watts

of RF power thereby turning the portable system into a high power vehicle based jamming system.

The VENTURA system therefore has unique modularity and flexibility and allows operators to deploy in many different scenarios all based round the one system core.

A simple, modular physical structure means the same unit can be used in both vehicles and man-portable configurations and is easy to change between carry portable and vehicle roles in a few minutes with no tools required.



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### VENTURA man-portable

A standard Mercury VENTURA system provides continuous coverage from 20MHz to 2.7GHz in a single box solution (2.7GHz to 6GHz requires an additional module). At the heart of this are three DDS based signal sources featuring ultra-fast technology which are fully programmable across the band.

While two signal sources are dedicated to the low and mid band frequency ranges the third is available to be programmed against hard to kill targets such as 3G or 4G based mobile phone systems which are extremely hard to jam using pre-existing older technology.

### Advanced signal source

The speed and agility of our signal sources allows VENTURA to reach a much greater frequency range in a single smaller envelope where other manufacturers would require two or three similar sized systems to cover the equivalent threat range.

User configured to target local threats The versatile DDS based sources are customer-configurable to suit the local threat environment and allow the system to be programmed to target all known threats including VHF/ UHF, public communications systems (e.g. GSM, 2G, 3G, 4G and satellite based networks) and all other areas of vulnerability (exact details available on request).

### Communications through inhibition (CTI)

The VENTURA main system box can be fitted with the optional Xchange communications through Inhibition functionality to allow Interference free communications while jamming.

### Battery cage

VENTURA when used in a portable mode requires a battery cage to hold the Li-ion (2590 Type) batteries to power the system. This is available in either a 2 or 4 off battery unit depending on the desired trade off between run time required and the weight of the system. When fitted with

a 4 off battery cage then batteries can be 'hot swapped' during use allowing for units to run for an infinite amount of time as batteries are swapped out.

### Antennas

VENTURA portable systems are normally supplied with appropriate antennas to suit the frequency range of the modules that have been specified. Our antenna designs are designed to provide maximum efficiency in the minimum size. All antennas are MilSpec ruggedised and feature sprung mounts and collapsible whip designs to allow for maximum variation.

### Ergonomic design

The VENTURA when used in portable mode benefits from a compact size given the frequency range it covers but also is designed to have a good centre of gravity so that it can be carried forward to a device with the most comfort and ease while wearing a bomb suit or other operational equipment.

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# Mercury VENTURA vehicle dock

With the battery cage removed a VENTURA system can be fitted to a vehicle dock to turn it into a high power vehicle based jammer. The dock consists of a permanently installed vehicle based docking system that reroutes all the antenna RF signals through higher power amplifiers and emits the signal through the vehicle mounted roof antennas.

This has the effect of increasing the power output from 45 watts to 270 watts and at the same time transmits the signal through a greater number of antennas thereby improving the efficiency of the system over a portable model.

All of the 'brains' of the system are in the VENTURA system box which features all of the anti-tamper systems, so when the box is removed from the dock no sensitive information is retained and the dock becomes 'dumb'.

## Ease of use

A VENTURA system can be fitted to a dock and or removed within a couple of minutes and does not require any tools or special knowledge to do this. This allows for rapid changing of roles with the one VENTURA system box and provides for system security by allowing very rapid removal of all sensitive information contained in the box if required.



## Antennas

Mercury VENTURA vehicle dock systems are normally supplied with appropriate antennas to suit the frequency range of the modules that have been specified. If we are carrying out the installation work then we will arrange polar plots to ensure that antenna placement is optimised for the specific vehicle. Our ranges of antennas are fully ruggedised and can be driven at high speed with no degradation and are available with either magnetic mounts or bolt trough designs.

## Remote control unit

VENTURA vehicle dock can be fitted with an optional remote control unit which will allow for all controls to be rerouted to the front of the vehicle thereby allowing for direct control of the system from the front cab of the vehicle.

## Vehicle installation

Mercury vehicle dock has been installed in a wide range of vehicles including: armoured military vehicles, soft skin or armoured SUV's and armoured limousines. VENTURA is highly efficient and compact so it can be fitted in a range of spaces with minimal impact on vehicle ergonomics and cooling systems.

Our support teams are available to advise or arrange fitting in any area of the world. In many instances we can provide turnkey solutions by providing any vehicle type with the VENTURA dock system already installed.

VENTURA dock runs directly from a 24V DC vehicle supply and so will run directly from a military vehicle power supply. If required to be fitted to a smaller vehicles such as a SUV or limousine then it is recommended to use the Power BRICK® vehicle installation power conditioner.

Part No	Description	NSN
KT-967-823	VENTURA ECM (Please contact us for advice on a configuration to meet your frequency requirements). Includes antennas but requires batteries and battery cage.	5865-99-396-9156
KT-967-824	VENTURA ECM (Please contact us for advice on a configuration to meet your frequency requirements) with Xchange communications through inhibition CTI capability. Includes antennas but requires batteries and battery cage.	5865-99-396-7479
KT-913-729	Remote control unit	
KT-950-045	Anti-vibration mount	
KT-950-043	Power BRICK - vehicle installed power conditioner and back up battery system. Includes anti-vibration mount	
KT-950-042	Vehicle dock unit	

Be confident  
with intelligent  
power  
management



*BLADE or VENTURA vehicle docks are fitted with anti-vibration trays to isolate vehicle vibration.*

## Mercury options and accessories

### Anti-vibration tray

The Mercury anti-vibration tray is designed to allow either a BLADE or VENTURA vehicle dock to be fitted to a vehicle and isolated from the vibration generated by the vehicle. The system is isolated using MilSpec rubber isolation mounts that are rated for use upto tracked vehicles.

### Vehicle Power BRICK

Both BLADE and VENTURA vehicle Dock can operate directly from a vehicle power supply if the vehicle is capable of delivering a 24v DC supply at a rating of 50 Amps for BLADE or 30 Amps for the VENTURA vehicle dock.

This also assumes that the power supply from the vehicle is stable and smooth and will not be impacted by the current draw that Mercury system may place on the vehicle electrics. This would normally be OK when using military vehicles that have high capacity electrical systems capable of running such equipment.

Even if the vehicle has the capacity to power a Mercury system then thought must also be given to how long the batteries would power the system with the engine switched off. In particular what that will mean to the vehicles main power system when it comes to be re-started – such as “will the battery be flat?”.

To address such issues we have developed the Vehicle Power BRICK which incorporates a 12v or 24v DC input supply adaptor/conditioner, a backup battery, jammer mounting assembly and anti-vibration tray in one neat assembly that saves space and makes for ease of installation.

### Mercury remote control unit (RCU)

This is a highly robust Mercury remote control unit which provides duplicate functionality of the main system controls at another location within the vehicle. When used with a BLADE system or VENTURA vehicle Dock, the RCU houses the optional communications module if it is

specified, since it allows placement of this adjacent to other radio systems and or front passengers within the vehicle.



### Graphical User Interface (GUI)

All Mercury systems are supplied with a single copy of the Mercury control and programming software GUI which alongside standard features offers a powerful suite of tools with which to configure and analyse the 'software mission fill' and Mercury performance parameters. Also available separately



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Xchange© communications technology is suitable for vehicle deployment



Providing on-body solutions with Xchange© Lite technology



## Mercury communications

All Mercury BLADE and VENTURA systems are available with Kirintec's unique patented Xchange© communications technology. This allows users to talk and jam on the same frequency without suffering a trade-off in performance against security

The Mercury ECM range can be supplied fitted with the optional Xchange communication system that allows users to communicate and jam on the exact same frequency with virtually no impact on jamming effectiveness or on communications range.

This can be implemented in two ways:

- 1 The Mercury system can be fitted with Xchange and an integrated VHF/UHF PMR type radio.** This allows the Mercury system to communicate with any unmodified VHF/UHF radio system outside the jamming bubble or with any VHF/UHF radio within the jamming bubble that is fitted with an Xchange Lite© radio patch – please ask for further details.

- 2 The Mercury system can be fitted with Xchange only.** This allows any VHF/UHF (TETRA, PMR, CNR or other FM based system) radios within the jamming bubble to communicate with each other and external radios providing the ones inside the bubble are all fitted with an Xchange Lite© radio patch - further details are available on request.

Xchange has no impact on frequency hopping type radios which can be used in clear or secure mode with no degradation of security. Xchange does not need or hold any sensitive information such as hop sets or encryption keys, but merely acts in a passive 'pass through' mode.

This is the first time an ECM system has been made available that truly integrates both the radio and the jammer and allows their simultaneous use in one box. This is enabled by the patented Xchange technology developed by Kirintec.

Neither of these options have an impact on the size of the system and only a marginal impact on weight and power requirements.

When the integrated radio option is specified the system is supplied with an NXDN based fully integrated radio module that is compatible with the European dPMR standard and can be switched between analogue and digital modes.

Further technical information is RESTRICTED and is available only to qualified individuals and approved Government Agencies. **Patent pending**

Part No	Description	NSN
KT-913-027	BLADE high power vehicle ECM (Please contact us for advice on a configuration to meet your frequency requirements). Includes vehicle mounted antenna set.	
KT-913-227	BLADE high power vehicle ECM (Please contact us for advice on a configuration to meet your frequency requirements). with Xchange communications through inhibition CTI capability. Includes vehicle mounted antenna set.	
KT-967-823	VENTURA ECM (Please contact us for advice on a configuration to meet your frequency requirements). Includes antennas but requires batteries and battery cage.	5865-99-396-9156
KT-967-824	VENTURA ECM (Please contact us for advice on a configuration to meet your frequency requirements) with Xchange communications through inhibition CTI capability. Includes antennas but requires batteries and battery cage.	5865-99-396-7479
KT-913-729	Remote control unit	
KT-950-045	Anti-vibration mount	
KT-950-043	Power BRICK - vehicle installed power conditioner and back up battery system. Includes anti-vibration mount	
KT-950-042	Vehicle dock unit	

Due to the high number of variants within the modules, please contact us to discuss your requirements. Please specific at the point of ordering if you require BLADE 5 or BLADE 4.



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## Kirintec Kits

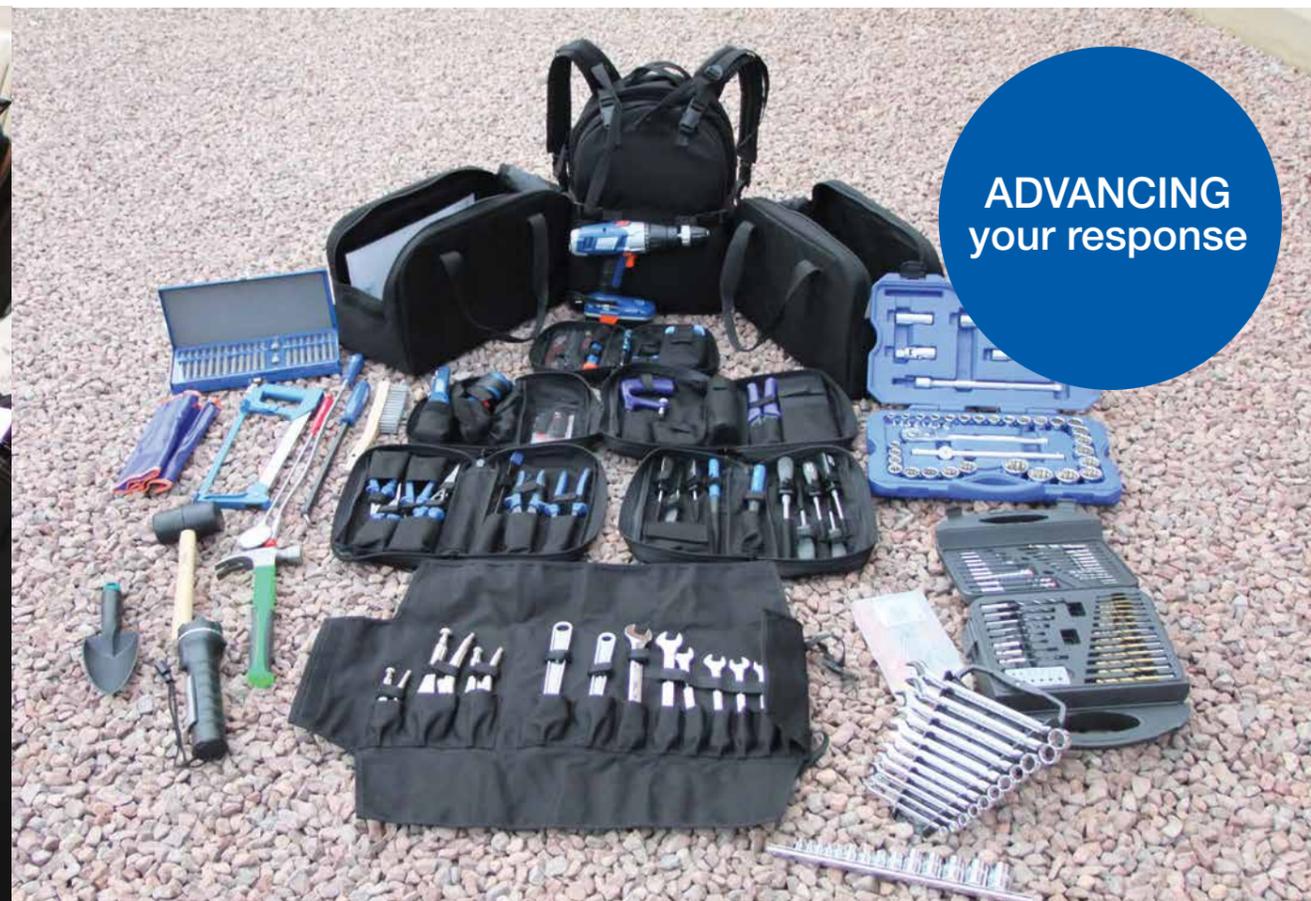
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Ask us about providing bespoke kits



ADVANCING your response

## Kirintec kits

We have kits to buy off the shelf or can tailor a bespoke solution.

Over the next few pages you will find these kits - which include:

- Search and access
- Mini dismantled search kit
- Hook and line
- Lightweight hook and line rigging
- Medium scale hook and line rigging
- IED extraction
- IEDD Individual operator's kit
- Comprehensive dismantled IEDD team
- Multi-role disrupter



## Search and access kit

A comprehensive and extremely well thought out manual toolkit (with more than forty items) to assist in the search for and access to concealed objects.

**Contents include:** drills, wrenches, chisels, spanners, sockets, crimping tools, pliers, meters, testers, hacksaw, files, gloves, screwdrivers, pry bar, shears, torch, mirror, brushes, blades, folding shovel, light and bag - to name but a few!

**Weight of complete kit: 40kg (88lbs)**

Part No	Description	NSN
KT-200-722	Search and access kit	1385-99-312-4596



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## IEDD individual operator's kit

### Complete lightweight dismantled kit for IEDD operators

This kit was developed for Operators to work on an autonomous basis in high threat environments for extended periods of time.

As a consequence the kit contains much of what is needed for lightscale render safe operations from one kit.

The pack is supplied with lightweight rigging kit and firing cable but also contains space for a number of optional extras such as: disrupters, ammunition and other equipment.

Mounting plates are supplied to allow positioning of a weapon and also contains equipment for the safe

personal transport of serviceable and unserviceable (for forensic recovery) detonators.

All equipment is contained in a very well designed and compact transport case; this is integrated with molle so that it can be used as part of an easily transported lightscale kit.



- Essential hook and line rigging tools for semi-remote action
- Safe personal transport of serviceable and unserviceable DETs
- Space for service issue ancillary equipment

## KOBRA DET-Box RF kit

### For safe personal transport of serviceable DETs

The KOBRA DET-box RF pouch is a simple and effective way to make the personal transport of serviceable electronic detonators safer for dismantled troops, without the need to carry the additional weight of a metal container.

The pouch also has pockets for service issue disrupter, exploder and ammunition.



KOBRA DET-box RF pouch

#### Specification

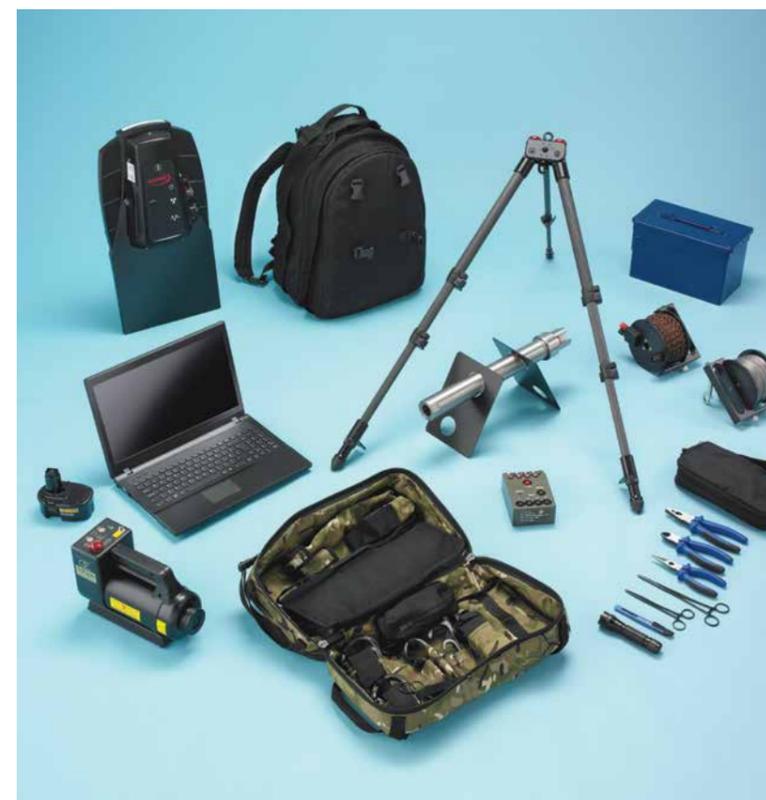
**Dimensions:**  
280 x 380 x 250mm  
(11" x 15" x 10")

**Full kit weight:**  
7.5 kg (16.5 lbs)

**Pouch dims - for UK DET box:**  
70mm x 100mm x 60mm  
(2.75" x 4" x 2.3")

**Weight Pouch only:**  
52g (2oz)

Part No	Description	NSN
KT-200-433	Complete kit	1385-99-213-9903
KT-750-779	KOBRA serviceable DET pouch	8465-99-974-9773



## Comprehensive dismantled IEDD team kit

### Providing a complete capability for a light scale comprehensive response to an IED

Our comprehensive kit comprises everything necessary to carry out a render safe procedure while remaining mobile and agile as part of a dismantled or rapid response operation.

The complete set of equipment in the kit is contained in two backpacks and is suitable for teams operating in urban and non-urban operating environments.

#### Comprehensive dismantled IEDD team kit

Building on the IEDD individual operator's kit the comprehensive kit contains everything necessary for dismantled operations.

Part No	Description	NSN
KT-200-242	Comprehensive IEDD team kit	1385-99-331-2027

#### Kit contents of backpack 1

- 110m lightweight firing cable on a winding spool
- 110m of 2mm heavy duty rigging line with karabiner on a winding spool
- Assault lines in 2 pouches
- 20m of 2mm line each with karabiner
- RF screened serviceable DET pouch
- DET recovery pouch
- Lightweight disrupter mounts
- Mini locking pliers with loop
- Straight seizers 1 x 150mm and 1 x 200mm
- Double closing hook 1 x large and 1 x small
- Flat hook 1 x large and 1 x small
- Karabiner screw gate 1 x 16mm and 1 x 25mm
- EOD black ceramic knife
- EOD DET crimp multi-tool
- LED hand torch
- K-Grip pulling handle
- K-Block - micro snatch block
- Snap loops
- Carbon fibre A-Frame with stabilising leg and ground anchors

#### Kit contents of backpack 2

- Portable X-ray generator
- Portable X-ray imaging system using CCD flat panel 1" (2.5cm) thick - 8" x 10" (20 x 25 cm) imaging area
- Laptop PC loaded with image analysis and database software
- KINESIS remote logic controller
- Multi-role disrupter (optional)
- Toolkit comprising 3 x snips, 2 x forceps, ceramic knife and LED torch



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Specification  
 Dimensions:  
 165mm (6.5") long x 30mm  
 (1.2") diameter  
 Bore:  
 9.5mm (0.374")  
 Weight:  
 250g (8.8oz)  
 Stand weight:  
 500g (17.6oz)  
 Full kit weight:  
 1.5kg (3.3lbs)



## Multi-role disrupter kit

Our reusable multi-role disrupter is lightweight and highly-powered; making it ideal for IEDD/EOD and search operations

- Titanium body, corrosion resistant articulating arm and stand
- Powerful multi-shot device with minimum recoil
- Accessories for tactical deployments: disrupting, cutting, breaking and attaching
- Deploys on a lightweight stand with excellent stand-off capability
- Simple and safe to use the kit requires minimal maintenance and training
- Custom ROV mounts available on request
- Ideal for assault IEDD, Special Forces and SWAT teams

Kit contents come in a soft pouch holding the disrupter, stand, articulating arm, cleaning tools and cartridges.

### Disrupter cartridges

Supplied with piston and closure cap

### Classification

- Power device 1.4C, UN0276, packing group 134
- NEQ per box of 90 is 0.060kg

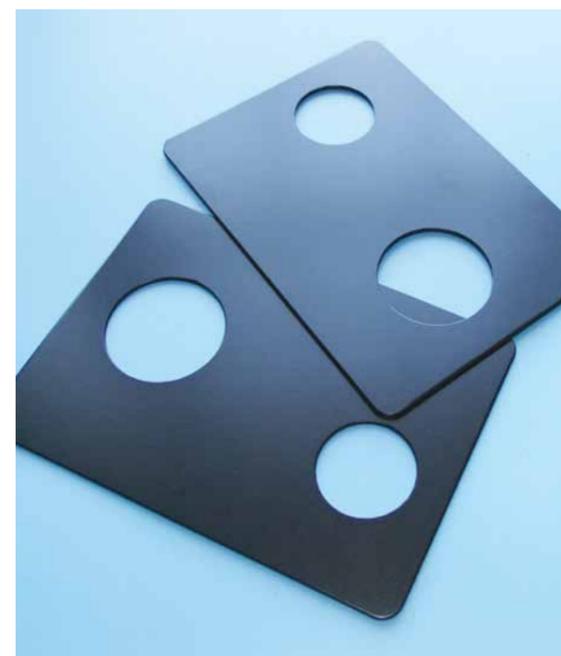


Part no.	Description	NSN
KT-306-635	Multi-role disrupter kit	1385-99-471-6683
KT-306-422	Hard storage case for multi-role disrupter kit	
KT-399-733	Disrupter cartridges	1385-99-153-2869

## Lightweight disrupter mounts

Small, lightweight and versatile disrupter mount plates

- Easy to transport and deploy
- Sold as pair for Needle, Pigstick and Hotrod



### Specification

Dimensions  
 210mm w x 150mm h x 2.5mm  
 (8.26" x 5.90" x 0.09")  
 Diameter of disrupter holes  
 45mm (1.77") and 58mm (2.28")  
 Material  
 Aluminium plate  
 black anodised  
 Weight  
 188g each (6.63oz)

Part No	Description	NSN
KT-200-603	Disrupter mounts (pair)	1385-99-444-3121



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# Forensic field exploitation kit level 1

Suits military or law enforcement forensic collection or weapons intelligence teams

Our forensic field exploitation kit is simple and effective. It holds all the necessary items required by a WIT or Forensic team to recover valuable information and samples from a post-blast scene.

Enhanced kits with chemical and explosive detection aids are also available on request

Please ask the team about:

- More advanced level 1 field forensic kits
- Level 2 forensic analysis and investigation equipment
- Other custom made forensic solutions available



## Kit contents:

- LED head torch
- LED hand torch
- Digital camera
- Plastic trowel
- Tape measure 10m
- Memory card and reader
- Flash drive
- Waterproof notebook and pencil
- Handheld GPS locator
- Evidence security bags
- Marker pen permanent (black, blue, red and green)
- Evidence tags
- Pointed cotton wool swabs
- Reversible footwear and tyretrack photoscale
- Nitrile forensic gloves
- Disposable forensic face mask
- Disposable forensic suit
- Open top pink anti-static bags
- Small flags
- Crime scene tape
- Sample containers
- Forensic over-boots
- Eye protection
- Sterile disposable scalpels
- Disposable tweezers
- Metal paint cans for evidence collection (1 x 250ml and 1 x 125ml)
- Fingerprint tape
- Black and white dusting powder
- Brushes
- Magnifying glass
- Scene assessment forms
- Black tactical backpack

Part No	Description	NSN
KT-303-335	Forensic Field Exploitation Kit Level 1	1385-99-190-7643
KT-303-315	Forensic Field Exploitation Kit Level 1 Enhanced	1385-99-239-2589
KT-303-325	Consumables Pack	1385-99-668-5663



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Benefit from our knowledge and advanced product range

## Custom EOD / IEDD equipment packages

Providing you with effective bespoke solutions

Ask our subject matter experts for advice on providing the appropriate capability specifically to the threats your team faces.

After a lifetime in this industry we know our way around it and pretty much everyone in it, benefit from our knowledge and you won't go wrong.

Our extensive international industry connections and track record of buying power combined means that we can often reduce costs and deliver packages at a more competitive rate than anyone else.

Benefit from our project management skills and save money at the same time!

Equipment packages for EOD, IEDD, Search teams and Special Forces.

We offer:

- Complete team kits
- Specialist customised tool kits
- Full integration
- Training in-country



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## Hook & Line

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Hook and line rigging kit	52
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Medium scale hook and line rigging kit (mk2 plus)	54
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Lightweight A-frame	56
Accessories (anchor pad and screw attachment)	57

# Hook & line

## The evolution of hook and line

Kirintec's founders have been involved in hook and line development since the early 1980s.

In fact they were responsible for the design of Mk2, 3 and 4 type kits that are widely in use today which were developed in response to specific operations; principally centred on historic peacetime urban operations as a result of the troubles in Northern Ireland.

As the threat and the operating environment has changed over the years, it has been (and still is)

imperative equipment that counters such threats changes too.

In keeping with our ethos at Kirintec of reflecting the current threats and contemporary operating environment we have developed a range of Hook and Line that is more in keeping with lightscale operations and response to high tempo operations in an asymmetric warfare type environment.

The impact of this type of threat is now being felt in urban IEDD response and standard operating procedures so our kits are highly applicable to these as well.

Our kits are designed by experienced current IEDD operators with extensive operational experience and engineers that have the ability to exploit the latest materials and processes.

It is this combination that means we start from the ground up in our development and don't just turn the handle on what has gone before.

We know you will see the difference when they are in use as they are now the 'in-service' standard for the UK and several other European countries.



Benefit from maximum operational flexibility with minimum strong small pieces of equipment.

**Specifications**  
 Pouch when closed:  
 222mm x 160mm x 75mm (8.7" x 6.3" x 2.3")  
 Weight when full:  
 940g (2lbs)  
 Extras:  
 Grappling hook and 66m heavy duty rigging line

Part No	Description	NSN
KT-200-637	Complete kit Colour options- black / MTP Bag style - leg pouch or Molle	1385-99-981-6624

# Mini dismantled search kit

This is a compact and lightweight dismantled kit to carry and have at your fingertips



Standard mini dismantled search kit

## Components and spares

Part No	Description	NSN
KT-200-235	35m of 2mm rigging line on winding spool with karabiner	4020-00-915-8695
KT-200-610	Mini locking pliers with loop	5120-99-667-8289
KT-200-604	Double closing hook - large	5340-99-601-9433
KT-200-630	Small flat hook	5340-99-162-4779
KT-200-621	Karabiner - 16mm screwgate	5340-99-374-7525
KT-200-622	Karabiner - 25mm screwgate	5340-99-737-2700
KT-200-623	EOD ceramic knife	1385-99-151-5443
KT-200-632	K-Grip	5120-99-455-9708
KT-200-633	K-Block	3940-99-551-9956
KT-200-634	Snap loops	4020-99-471-5667
<b>Optional extras</b>		
KT-200-465	Heavy duty rigging line 2mm diameter x 66m (200ft) on winding spool with karabiner	4020-99-858-2403
KT-212-221	Ceramic cutting hook	1385-99-216-1313
KT-212-421	Flat pack grappling hook	1385-99-512-2206



**Optional 66m (200ft) Heavy duty line**  
 Line diameter:  
 2mm x 66m  
 (0.078" x 200ft)  
 Load:  
 535kg (1,200lbs)  
 Stretch:  
 2.2% at 50% of load  
 Weight:  
 680g (1.5lbs)  
 Spool:  
 75 x 127 x 130mm (3 x 5 x 5.15 inches)



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Our hook and line kit is ideal for:

- EOD
- IEDD
- High risk search
- Assault IED
- Clearance
- CMD
- Semi-remote action
- High performance



Assault lines 20m (22 yards)



Double closing hook



Rigging line 50m (55 yards)



Strong flat hook

## Hook and line rigging kits

Our light weight equipment allows a rapid response

Our objective is to make equipment function better and remove all extraneous weight and mass. This sounds simple but making things work well that don't weigh much is not easy – ask a Formula 1 or IndyCar team!

Our materials technology has evolved; it is now possible to do more with less. At Kirintec we are all about the 'now' and as our team has designed more hook and line kits in service than anyone else on earth we know of, we are focussed on your needs now and in the future.

What you see may look deceptively simple, but much of it is backed by extensive research into what makes equipment usable. We spend a lot of time with engineers and end users in the same room seeing what can be achieved to lighten the load.

**Strap choice:  
leg fit or  
backpack**



	Description
Option 1	Hook and line rigging kit molle
Option 2	Hook and line rigging kit leg strap

## Lightweight hook and line rigging kit

A complete kit for light scale dismantled operations

The lightweight hook and line kit has been designed to provide essential lightscale capability with all extraneous weight and peripherals removed, thereby providing you with the operational capability you need without the weight you don't.

This kit was developed in response to lightscale operations in current high threat operational deployments and as such has been honed to the needs of high threat IEDD operators or special force units operating on a 'flyaway' basis.



**Specification**  
**Dimensions:**  
 350 x 200 x 75mm (14 x 8 x 3 inches)  
**Weight full:**  
 2.5kg (5.5lbs) including separate assault line pouches  
**Colours:**  
 Black, MTP, others on request  
**Straps:**  
 Molle or leg straps

Part No	Description	NSN
KT-200-545	Complete kit	1385-99-752-0137
<b>Components / Spares</b>		
KT-200-608	50m (55 yards) of 2mm line on reel with karabiner	4020-99-690-7739
KT-200-628	Sacrificial lines in two pouches, 20m of 2mm line in each	4020-99-837-0427
KT-200-610	Mini locking pliers with loop	5120-99-667-8289
KT-200-611	Straight forceps - 150mm	5120-99-213-5951
KT-200-631	Straight forceps - 200mm	5120-99-459-1743
KT-200-604	Double closing hook – large	5340-99-601-9433
KT-200-605	Double closing hook – small	5340-99-517-5845
KT-200-629	Large flat hook	5340-99-936-3750
KT-200-630	Small flat hook	5340-99-162-4779
KT-200-621	Karabiner – 16mm screw-gate	5340-99-374-7525
KT-200-622	Karabiner – 25mm screw-gate	5340-99-737-2700
KT-200-623	EOD ceramic knife	1385-99-151-5443
KT-200-626	EOD DET multi-tool	5110-99-229-5124
KT-200-636	LED hand torch	
KT-200-632	K-Grip	5120-99-455-9708
KT-200-633	K-Block	3940-99-551-9956
KT-200-634	Snap loops	4020-99-471-5667
<b>Options</b>		
KT-200-396	Heavy duty rigging line 2mm dia x 110m (120 yards) on winding spool	4020-99-994-2195
Black line		
KT-200-397	Heavy duty rigging line 2mm dia x 110m (120 yards) on winding spool	
Red line		



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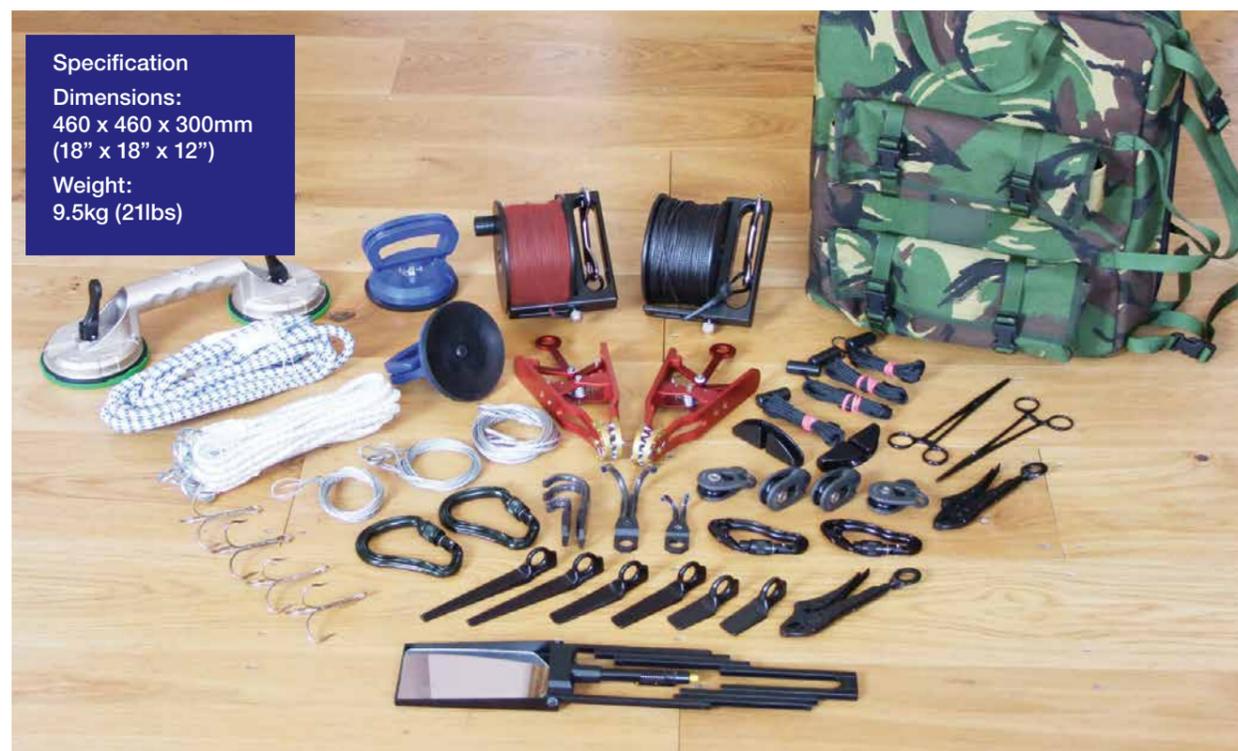
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# Medium scale hook and line rigging kit (Mk2 plus)

For conventional dismounted medium scale EOD operations



## Specification

Dimensions:  
460 x 460 x 300mm  
(18" x 18" x 12")

Weight:  
9.5kg (21lbs)

## Kit Contents

- Shock cord 10mm x 1m x 2m
- Shock cord 12mm x 1m x 2m
- Wire rope strops 1mm x 2m
- Wire rope strops 2mm x 2m
- Wire rope strops 3mm x 2m
- Rope strops
- Large spring clamps
- Spike grip
- Suction cups - single and double
- Mole grips
- Karabiners - large and small
- Kirintec snatch blocks
- Pulling handles
- Triple hooks
- Seizers
- Pitons - small, medium and large
- Double hooks - small and large
- Black 110m heavy duty rigging line on winding reel
- Red 110m heavy duty rigging line on winding reel

## EOD users benefit from:

- Compact dismounted kit for conventional mounted EOD
- Lightweight heavy duty rigging line for semi-remote action
- Versatile accessories for improved ease of access
- Simple proven equipment

Part No	Description	NSN
KT-200-652	Medium scale hook and line rigging kit	1385-99-727-1925
KT-212-776	Pocket search mirror	



# IED extraction kit

## Effective lightscale capability for dismounted troops

This kit has been designed to deliver an effective light scale capability to dismounted troops, for extracting an IED main charges from the ground.

Users benefit from a quick and efficient capability when tasked with lifting heavy and/or awkwardly shaped items from difficult positions.

Our light scale A-Frame is made from carbon fibre and anodised aluminium, making it both strong and light.

It is the kit's quick setting features that allow the user to deploy and re-deploy it quickly and safely.

The IED extraction kit is used in conjunction with a disposable disrupter and projectile delivery system, which fires Kirintec's flying spike charge attachment.

## Kit Contents

- Lightweight hook and line rigging kit
- Lightweight A-Frame
- Heavy duty rigging line 110m (120 yards) on winding spool

Part No	Description	NSN
KT-200-727	IED extraction kit	1385-99-438-3444
<b>Optional extras</b>		
KT-200-507	Flying spike - single	1385-99-975-1918
KT-306-635	Kirintec multi-role disrupter kit	1385-99-471-6683



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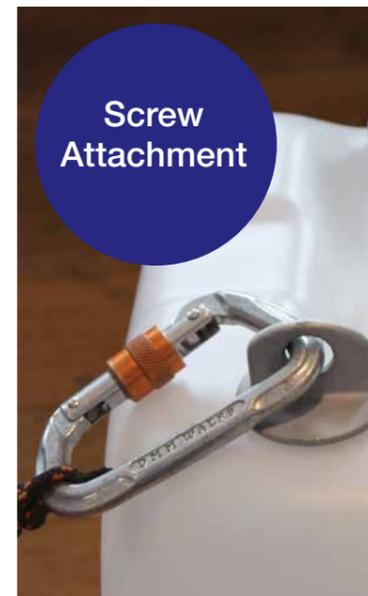




**Specification**  
 Length:  
 620mm (24.5")  
 Width:  
 120mm (4.7" diameter)  
 Weight:  
 1.8kg (4lbs)  
 Mid leg span:  
 1,000mm (39")  
 Max leg span:  
 1,700mm (67")  
 Min leg length:  
 620mm (24.5")  
 Mid leg length:  
 860mm (34")  
 Max leg length:  
 1,100mm (43")  
 Max weight lift:  
 110kg (242lbs)



**Advanced Anchor Pad**



**Screw Attachment**

## Lightweight A-Frame

Compact lightweight bipod for urban route clearance EOD / IEDD and main charge extraction

- Lifting capacity of 110kg (242 lbs) with a 2mm diameter rigging line
- Constructed principally of carbon-fibre and weighing less than 2kg
- Detachable leg for added stability on uneven ground or if a tether point is not available
- Telescopic legs which can be locked in three positions: vertical, semi-spread, and fully spread
- Feet have steel points or rubber grips to assist with stability
- Legs may be tethered using metal or plastic anchor pegs depending on ground conditions



Part No	Description	NSN
KT-200-543	Lightweight A-Frame	3950-99-179-5484

## Accessories

Options for remote or semi-remote controlled extraction of main charges

Our advanced anchor pad, screw and flying spike charge attachments are quick and simple to deploy - either by ROV or manually. A suspect container can be extracted either by ROV or by semi-remote action using an A-Frame or tripod.

### Advanced anchor pad

- Small flexible metal pad sticks to flat or curved surfaces
- Hard eye anchor point
- Adhesive backing sticks to smooth, rough, wet or dry substrates
- Available in packs of 10, 100 or 500
- Screw attachment

### Self-tapping thread

Fixed either manually or by ROV  
 Lifts upto 150kg (330lbs)

*Patent pending*

Part no.	Description	NSN
KT-200-508	Screw attachment	1385-99-396-9174
KT-612-227	Advanced anchor pad x 10	
KT-612-127	Advanced anchor pad x 100	
KT-612-527	Advanced anchor pad x 500	
KT-200-507	Single flying spike for Kirintec multi-role disrupter or needle	1385-99-975-1918
KT-200-527	Single flying spike for PAN disrupter	
KT-200-555	Single flying spike for carbon 10 disrupter	1385-99-153-1155
KT-306-635	Kirintec multi-role disrupter	1385-99-471-6683



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## Accessories

Components and spares		
KT-200-396	110m (120 yards) 2mm diameter heavy duty black rigging line on a winding spool	4020-99-994-2195
KT-200-628	Sacrificial lines in two pouches 20m of 2mm line each with karabiner	4020-99-837-0427
KT-600-111	110m (120 yards) lightweight firing cable on a winding spool	1385-99-553-6941
KT-200-603	Lightweight disrupter mounts	1385-99-444-3121
KT-200-610	Mini locking pliers with loop	5120-99-667-8289
KT-200-611	Straight forceps - 150mm	5120-99-213-5951
KT-200-631	Straight forceps - 200mm	5120-99-459-1743
KT-200-604	Large double closing hook	5340-99-601-9433
KT-200-605	Small double closing hook	5340-99-517-5845
KT-200-629	Large flat hook	5340-99-936-3750
KT-200-630	Small flat hook	5340-99-162-4779
KT-200-621	Karabiner - 16mm screwgate	5340-99-374-7525
KT-200-622	Karabiner - 25mm screwgate	5340-99-737-2700
KT-200-623	EOD ceramic knife	1385-99-151-5443
KT-200-626	EOD DET multi-tool	5110-99-229-5124
KT-200-636	LED hand torch	
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KT-200-633	K-Block	3940-99-551-9956
KT-200-634	Snap loops	4020-99-471-5667



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## Rigging Line & Cables

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Ultra strong low stretch rigging line	62
Heavy duty tactical pulling line	62
Low stretch EOD line	62
Traditional detonator cable	63
Lightweight firing cable	63
Phoenix flex	64

# High performance lightweight rigging line

Smaller, lighter and stronger these rigging lines are suitable for EOD, IEDD and high risk searches



Lightweight ultra strong low stretch rigging line for special operations on a 50m reel

Line: 1.5mm (0.059") diameter x 50m (55 yards)  
 Load: 67Kg (148lbs)  
 Stretch: 1.4% at 30% of breaking load  
 Karabiner: 5mm x 50mm (0.2" x 1.9")  
 50m Reel: 82mm (3.2") diameter x 45mm (1.72) wide  
 Total weight: 225g (8oz)



General purpose strong low stretch rigging EOD line

Line diameter: 2mm x 50m or 110m (0.078" x 55 yards or 120 yds)  
 Load: 115Kg (253lbs)  
 Stretch: 1.4% at 30% of breaking load  
 Karabiner: 5mm x 50mm (0.2" x 1.9")  
 50m reel: 50m reel to 84mm (3.3") diameter x 60mm (2.3") wide  
 110m spool: 138mm (5.7") diameter x 84mm (5") and 800g (1.7lbs)  
 Total weight: 50m: 218g (0.48lbs) / 110m: 800g (1.7lbs)



Heavy duty ultra strong low stretch tactical pulling line 2mm dia heavy duty line on 66m or 110m Winding Spool

Line: 2mm (0.078") diameter x 66m (200ft) and 110m (120 yards)  
 Load: 535kg (1,200lbs)  
 Stretch: 2.2% at 50% of breaking load  
 Karabiner: 5 x 50mm (0.2 x 1.9")  
 66mm spool: 60mm (2.3") width x 138mm (5.4") diameter  
 10mm spool: 84mm (3.3") width x 138 (5.4") diameter  
 Total weight: 66m spool: 0.6kg (1.5lbs)  
 10m spool: 0.8kg (1.7lbs)

Part no.	Description	NSN
KT-600-303	Lightweight rigging line 1.5mm diameter x 50m (55 yards) on mini hand reel with karabiner	1385-99-696-3557
KT-200-608	General purpose rigging line 2mm diameter x 50m (55 yards) on mini hand reel with karabiner	4020-99-690-7739
KT-200-401	General purpose rigging line 2mm diameter x 110m (120 yards) on winding spool with karabiner	
KT-200-465	Heavy duty pulling line 2mm diameter x 66m (200ft) on winding spool with karabiner	4020-99-858-2403
KT-200-396	Heavy duty pulling line 2mm diameter x 110m (120 yards) on winding spool with karabiner - BLACK line	4020-99-994-2195
KT-200-397	Heavy duty pulling line 2mm diameter x 110m (120 yards) on winding spool with karabiner - RED line	



## Traditional detonator cable

Black and tan twisted pair detonator cable

**Specification**  
**Construction:** Plain annealed copper with two cores twisted together giving a 4.88mm nominal diameter  
**Insulation:** PVC  
**Resistance:** 26 ohms/km at 200C  
**DEF-STAN:** 61-12 (Part 17)  
**Weight:** 28kg per km

Part No	Description
KT-602-317	150m black and tan detonator cable - cable only weighs 4.2kg (9.2lbs)
KT-602-318	150m black and tan detonator cable - rubber caddy
KT-602-319	250m black and tan detonator cable - cable only weighs 7kg (15.4lbs)
KT-602-322	250m black and tan detonator cable - on steel caddy
KT-602-320	500m black and tan detonator cable - cable only weighs 14kg (30.8lbs)
KT-602-321	1000m black and tan detonator cable - cable only weighs 28kg (61.7lbs)

## Lightweight firing cable

Half the weight of traditional detonator cable



**Specification**  
**Construction:** Tin plated copper with two cores uniformly twisted together and no less than sixty complete twists per meter (2.7mm nominal diameter)  
**Voltage rating:** 600V AC  
**Current rating:** 10A  
**Insulation:** ETFE  
**Resistance:** 33.6 ohms/km at 200C  
**Cable breaking strength** 12-14Kg (26 - 30lbs) before continuity is lost  
**DEF STAN:** 61-12 (Part 29)  
**Weight:** 14kg per km (50% less than other firing cable)

Part No	Description	NSN
KT-600-015	15m Lightweight firing cable on mini hand reel. Reel 82mm (3.22") d x 45mm (1.77") w	
KT-600-288	50m Lightweight firing cable on hand reel. Reel 82mm (3.22") d x 92mm (3.6") w weighs 0.9kg (1.98lbs)	6145-99-991-1905
KT-600-111	110m Lightweight firing cable on winding spool. Spool 138mm (5.43") d x 84mm (3.3") w weighs 1.98kg (4.18lbs)	1385-99-553-6941
KT-600-219	125m Lightweight firing cable - cable only. Cable weighs 1.75kg (3.85lbs)	
KT-600-229	250m Lightweight firing cable - cable only	
KT-600-259	500m Lightweight firing cable - cable only	



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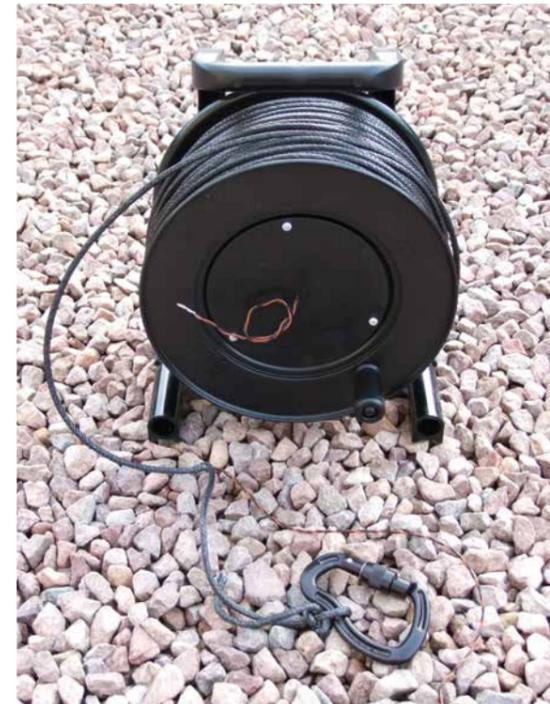
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Revolutionary  
2 in 1



# Phoenix flex

Reducing the weight by nearly 50%

Combining the performance of a high specification low stretch rigging line with a twisted pair firing cable Phoenix flex is ingenious; it can even be used effectively underwater.

Our unique line can be used with any classic rigging equipment or disrupter and electronic initiator, operationally it's identical to normal rigging line but offers ultra low stretch characteristics.

The line ends can be stripped to reveal the integrated firing cable for connection to a disrupter or other explosive charges.

It is very easy for the line to be re-used if the end is damaged, or using a fid the line end loop can be easily remade and have extra branch lines added.

**Specification**

<b>Construction</b>	
Inner	Insulated twisted twin cable core
Outer	12 strand fibre cover
Ends	Not terminated
Line length	125m (137 yards)
Diameter	4.5mm
Breaking strength	1.7 tonnes (3,813lbs) before continuity is lost
Stretch	Very low <1% on worked and rested line
UV resistance	High
Strength	Very high
Waterproof	Low water pick up
Colour	Dark grey
Treatment	Heat set pre-stretched and PU coating
Melting point	1400C (2840F)
Splicing	Easy using splicing fid kit
Recommendation	Cable be tested before re-use

Part No	Description	NSN
KT-600-888	125m Phoenix flex hook and line rope with integral multi-core firing cable	1385-99-613-5638
KT-600-802	125m Phoenix flex on caddy	
KT-600-803	Splicing fid kit	



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## EOD Tools

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Flying ceramic window breaker	71
Flying spike	71



**Specifications**  
 Dimensions:  
 195mm x 150mm  
 (7.6" x 6") when assembled  
 Weight:  
 283g (10oz)  
 Construction:  
 Black anodised stainless steel



Three parts  
 easy to carry  
 and assemble



**Specification**  
 Weight:  
 Full kit 1.1Kg (2.4lbs)  
 cutter only 553g (19.5oz)  
 Dimensions:  
 270mm (10.6") long (armed),  
 220mm (8.6") long (unarmed)  
 and 40mm (1.6") diameter  
 Construction  
 Non-conductive chemical  
 resistant casing with ceramic  
 blades

## Flat pack grappling hook

Designed for tactical search operations, this is a strong lightweight grappling hook that fits existing hook and line kits for additional pulling, lifting and manipulating.

The hook comes in three flat pieces and is assembled in seconds to form a four-barbed hook. The heads of the barbs interlock through a top slit, and the pieces are kept securely together at the base of the hook by using either a karabiner or by tying the throwing line directly through the bottom hole.

Part No	Description	NSN
KT-212-421	Flat Pack Grappling Hook	1385-99-512-2206

## Ceramic cutting hook

Assists with semi-remotely cutting rigging line, pulling cord, command wire and/or firing cable.

Our small Kirintec ceramic cutting hook is light and comes with a black carrying pouch which conveniently attaches to a belt or a Molle strap. It has ergonomic grip for hand cutting actions and is fitted with a consumable 'Stanley' style ceramic blade.



**Specification**  
 Dimensions:  
 140mm x 85mm  
 Weight:  
 5.2g  
 Blade:  
 Ceramic

Part No	Description	NSN
KT-212-221	Ceramic cutting hook	1385-99-216-1313
KT-221-821	Replacement ceramic blade for cutting hook	1385-99-190-7659

Patent pending



## KORONA

Silent operation non-explosive command wire cutter

KORONA is a spring-loaded, remotely line-triggered reliable non-explosive wire cutter. It is ideal for silently cutting command wire, arming wire or pull cord command lines.

**Features**

- Ceramic blades cut a 14mm section out of the wire preventing any possible short-circuit activating the IED. The remaining wire is then released
- Cuts multi-stranded copper core wire up to 7mm diameter
- KORONA's blades rotate to offer multiple fresh cutting edges
- Blades are easily replaced in minutes manual spring-wound firing mechanism. Trigger weight 786g (28oz)

- Non-conductive chemical resistant mechanism and housing
- Sealed mechanism to prevent ingress of sand and dust
- Double safety mechanism to prevent misfire
- Tether points to anchor cutter and prevent pull back of wire when blades slice through the wire

**KORONA kit comprises:**

- Wire cutter with ceramic blades
- 50m high performance pulling line
- Threaded ground anchors
- Leg pouch
- Optional metal training blades are available

Part No	Description	NSN
KT-600-300	KORONA non-explosive command wire cutter kit	1385-99-979-8746



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# K-Cutter electronic wire cutter

## Discreet single use miniature wire cutter



The K-Cutter uses a very small nitro cellulose and lead picrate squib that has a very high reliability rating (a failure rate of less than 1 in 20 million firings). It is immune to high RF and ESD type environments and is hermetically sealed allowing for use under water for specialist military applications. The K-Cutter is rated to IP67. Providing it is stored correctly the K-Cutter can be kept for up to 20 years without degradation to the performance and operates from -40°C to +85°C.

The K-Cutter is very powerful and can cut a 4mm thick wire steel cable with ease. The action of the cutting force and cutting blade design expels the wire with some force and so reduces the possibility of wires making a circuit once cut. The 'witness' from a cut is very low and is more of a low level audible 'click' rather than an explosive event.

Firing of a K-Cutter does generate some heat but nothing of significance, also there is no flash or smoke or gaseous by-product which would prevent the use of the cutter in enclosed environments by a trained Operator.

### Features

- **Single or multiple units fired in sync by an exploder, an RF controller or Kirintec's KINESIS Remote Logic Controller.**
- **IP67 - fires under water our K-Cutter cuts up to 4mm steel wire and costs less than 25% less per firing than a disrupter.**

*Further technical details and test data available on request.*

Part No	Description	NSN
KT-600-392	K-Cutter electronic wire cutter	1377-99-968-6731
KT-950-081	Kinesis Plus	

**Specification**  
**Dimensions**  
 70mm (2.75") long x 12mm diameter (0.5" diameter)  
**Weight**  
 32g (1.2oz)



# Flying ceramic knife

Our ceramic knife is a safe way to cut electrical wiring as it is non-conductive. This product is in service world-wide.

### Specification

**95mm (3.75") long, 26mm (1") diameter, 23g (0.8oz) weight**



# Flying ceramic window breaker

Designed to completely shatter vehicle windows, our window breaker enables rapid entry into a wide range of vehicles. It may be used either independently or mounted to the barrel of a disrupter.

### Specification

**60mm (2.3") long, 16mm (0.63") diameter and 4g (0.14oz) weight**



# Flying spike

Our Kirintec flying spike is designed to penetrate into the mass of an object and create an anchor with which to remotely or semi-remotely lift, pull or drag the object. Our spike can be used for main charge extraction, opening doors, creating an anchor for rigging operations, dragging suspicious objects clear and much more.

### Specification

**900mm (3.5") long x 12mm (0.5") diameter  
 Weight 76g (0.16lbs)  
 Lifting capacity 130kg (286lbs)**



For use with the Kirintec multi-role disrupter kit

Part No	Description	NSN
KT-306-235	Flying ceramic knife	1385-99-867-9454
KT-200-507	Flying spike	1385-99-975-1918
KT-306-292	Flying ceramic window breaker	1385-99-840-3820

Specification	Spike for Kirintec multi-role disrupter or needle	Spike for PAN or spike for carbon 10
Length	90mm (3.5")	10mm (6")
Weight including wire	76g (2.7oz)	300g (0.66lbs)
Body and wire material	Metal	Metal
Wire length	700mm (27")	700mm (27")
Lifting capacity	130kg (286lbs)	In excess of 250kg (550lbs)



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## Mission Control

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# KINESIS Plus

## Remote Logic Controller

Kinesis Plus is a sophisticated remote logic controller which has built in many features as well as the ability to accept external sensor inputs.

Kinesis Plus can be deployed in such a way as to provide a secure communication network which can deliver a number of pre-set effects or actions either directly or operator command. This is a result of a sensor input.

Kinesis Plus is so much more than a communications platform, precise details are available on request.

### Clever technology

Each Kinesis Plus unit has two dual band radios: one for uplink and one for downlink within network. In response to the local electro-magnetic compatibility (EMC) in the field, there is a choice of two frequency bands for secure communication between units. They are at 433/868MHz.

### Secure network topologies

In choosing Kinesis Plus you will benefit from a highly configurable and secure network topology. With up to 16 units in the standard configuration (hundreds with non-standard configurations).

You have plenty of scope as each Kinesis Plus unit offers a line of sight (LOS) range of up to 5km.

Supported topologies:

- Line (16 units at 5km LOS = 80km)
- Tree
- Star

## Specifications

Basic unit specifications:

- Size  
175 x 80 x 39mm excluding antenna and terminals  
175 x 100 x 39mm with terminals and dust caps
- Weight  
580g excluding batteries and antenna (antenna typically 11g each)
- Environment  
IP67
- Power supply  
Two pairs of CR123 batteries, giving 6V each. Pairs can be hot swapped.

External power connector taking 4-15V DC

- Frequency  
433/868MHz  
Two radios per unit, each one can run at either frequency
- Transmit power  
Up to 100mW/20dBm
- Receiver sensitivity  
Est -111 to -148 dBm
- Control range  
Up to 5Km LOS
- Operating temperature  
-20 to +55°C

### So many built-in features

Kinesis Plus fits in a standard SA80 ammunition pouch and has front panel buttons and indicators for ease of control. What is more, buttons can be disabled/enabled remotely over the secure network.

Kinesis Plus has a host of features built-in, these include:

- built-in initiator interface with a continuity tester (programmable pass/fail level)
- switch interface with open/closed status
- USB OTG interface
- three axis Gyroscope
- compass (3D accelerometer and 3D magnetometer)
- WiFi and Bluetooth for local secure connection to a PC or tablet
- battery backed real time clock

## Initiator specifications

- Connections  
Spring-loaded push terminal binding post
- Voltage  
45V +/-0.5V Peak
- Current  
>25A
- Energy  
0.47J
- Time to arm  
1.5s

## Switch specifications

- Connections  
Spring-loaded push terminal binding post
- Switching capacity  
5A 250V DC 1250VA  
5A 30V DC 150W
- Max switching voltage  
250V AC  
125V DC (0.2A)
- Max switching current  
5A AC  
5A DC
- Operating time  
10ms max
- Operating speed  
3cps max

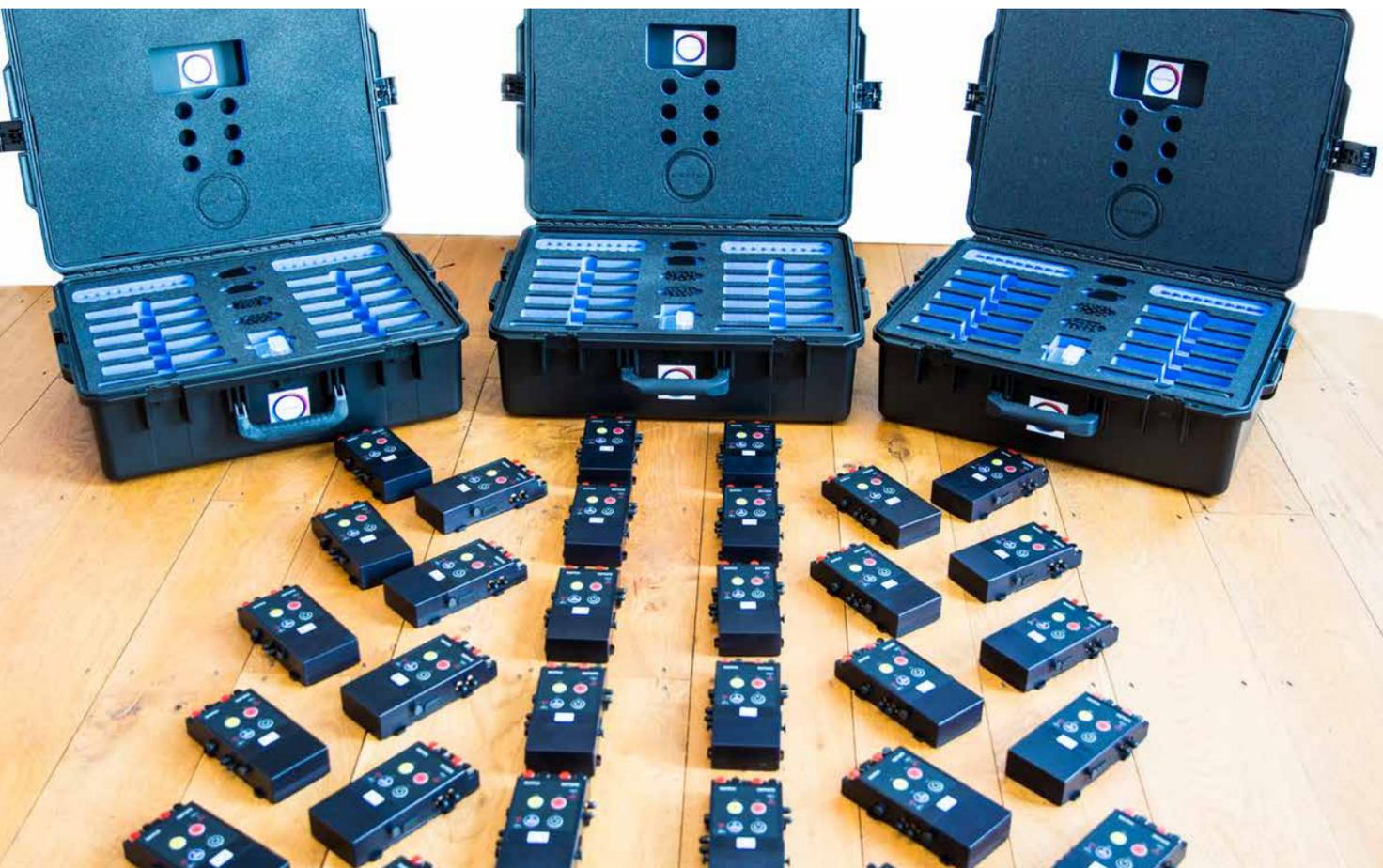


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#### Benefit from:

- multiple networks which can co-exist
- simple PC/tablet browser interface to any WiFi connected unit's GUI
- remote control of all units in the network, via the secure browser interface
- messaging and text interface between PC/tablets WiFi connected to any units on the network
- safety double button press control for initiate and switch outputs
- spring posts for simple mechanical connections to Initiator and switch interfaces
- remote status monitoring of all units on network: battery, external and internal voltages, current, temperature, initiate voltage, continuity test and switch status (open/closed)

- expansion capabilities for external sensors and actuators
- integrated mechanical loops for securing unit

#### Battery details

Kinesis Plus uses standard commercially available CR123 batteries. Choose from a battery or external power source operation:

- Two pairs of internal batteries can be hot swapped for un-interrupted operation
- Power connector for connection to external power source

#### Optional extras

Talk to the team to discover how Kinesis Plus can assist with your mission – there are so many uses! But you may wish to consider including:

- GPS
- Ethernet interface

Part no.	Description	NSN
KT-950-081	Kinesis Plus	
KT-950-082	Kinesis Plus Kit (ten units and support equipment)	

*Should you wish to purchase a customised solution (for example a different amount of units with support equipment), then please specify this at the point of ordering.*

## IED Training devices

### Classroom and field ready teaching tools

- Offers operators deploying to theatre the chance of hands-on RCIED training
- Operators may test their detection equipment with confidence
- Helps operators understand the exact nature of the threats, their construction and how this affects their TTPs

Training devices are manufactured for search training or industry demonstrations.

Devices are provided in an IP67 hobby box that can be buried for detection purposes or surface laid in all weather conditions in a sealed unit. Some training devices can be provided in robust pelican cases for an alternative display option.

Each device has I/O ports for connection to flash bulbs, indoor sound units or additional IED devices (daisy chaining).

**Below are the four main types of device we offer, contact us for further details.**

- 1 Timed Improvised Explosive
- 2 Dual Tone Multi-Frequency Devices
- 3 Victim Operated Improvised Explosive Devices
- 4 Radio Controlled Improvised Explosive Devices



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Part No	Description	NSN	GSA Advantage
<b>REBUS</b>			
KT-950-009	Entire REBUS 2 system		
KT-950-096	REBUS 2 orange inhibitor		
KT-950-098	REBUS 2 ballistic tent		
KT-966-003	REBUS 2		
KT-409-111	REBUS pop-up tent and inhibitor (1800 GSM)	5865-99-346-4625	
KT-409-115	REBUS pop-up tent and inhibitor (1900 GSM)		
KT-409-123	REBUS inflatable tent and inhibitor (1800 GSM)		
KT-409-124	REBUS inflatable tent and inhibitor (1900 GSM)		
KT-409-102	REBUS blast blanket and inhibitor (1800 GSM)	1385-99-836-4579	
KT-409-110	REBUS blast blanket and inhibitor (1900 GSM)		
KT-409-106	REBUS blast bin and inhibitor (1800 GSM)	1385-99-725-4183	
KT-409-113	REBUS blast bin and inhibitor (1900 GSM)		
KT-409-107	External battery pack	6140-99-852-5959	
KT-409-108	Inhibitor battery charger	6130-99-155-5770	
KT-409-576	REBUS confidence checker		
<b>Mercury</b>			
KT-913-027	BLADE high power vehicle ECM (Please contact us for advice on a configuration to meet your frequency requirements). Includes vehicle mounted antenna set.		
KT-913-227	BLADE high power vehicle ECM (Please contact us for advice on a configuration to meet your frequency requirements). with Xchange communications through inhibition CTI capability. Includes vehicle mounted antenna set.		
KT-913-XXX	BLADE high power vehicle ECM (Please contact us for advice on a configuration to meet your frequency requirements) includes vehicle mounted antenna set.	5865-99-580-4413	
KT-967-823	VENTURA ECM (Please contact us for advice on a configuration to meet your frequency requirements). Includes antennas but requires batteries and battery cage.	5865-99-396-9156	
KT-967-824	VENTURA ECM (Please contact us for advice on a configuration to meet your frequency requirements) with Xchange communications through inhibition CTI capability. Includes antennas but requires batteries and battery cage.	5865-99-396-7479	
KT-159-357	Xchange for vehicle mounted ECM systems	5895-99-408-5131	
KT-159-442	Xchange for dismounted ECM systems	5895-99-312-4604	
KT-159-657	Patch for vehicle mounted Radio systems	5895-99-153-1669	
KT-159-742	Patch for dismounted Radio systems	5895-99-668-4933	
<b>Kirintec Kits</b>			
KT-200-722	Search and access kit	1385-99-312-4596	GS-07F-0373W
KT-200-433	IEDD individual operator's kit	1385-99-213-9903	GS-07F-0373W
KT-750-779	KOBRA DET-box RF kit	8465-99-974-9773	
KT-200-242	Comprehensive dismounted IEDD team kit	1385-99-331-2027	
KT-306-365	Multi-role disruptor kit	1385-99-471-6683	
KT-399-733	Cartridge for Multi-role	1385-99-153-2869	
KT-200-603	Mounts (pair)	1385-99-444-3121	
KT-303-335	Forensic field exploitation kit - level 1	1385-99-190-7643	GS-07F-0373W
KT-303-315	Forensic field exploitation kit level 1-enhanced kit	1385-99-239-2589	
KT-303-325	Forensic field exploitation kit level 1-consumables refill pack	1385-99-668-5663	
N/A	Custom EOD/IEDD equipment packages		
<b>Hook and line</b>			
KT-200-637	Mini dismounted search kit	1385-99-981-6624	
KT-200-545	Lightweight hook and line kit	1385-99-752-0137	GS-07F-0373W
KT-200-652	Medium scale hook and line kit	1385-99-727-1925	
KT-200-727	IED Extraction kit	1385-99-438-3444	

Part No	Description	NSN	GSA Advantage
<b>Hook and line</b>			
KT-200-543	Lightweight A-Frame	3950-99-179-5484	GS-07F-0373W
KT-612-227	Advanced anchor pad (pk10)		
KT-200-508	Screw attachment for main charges	1385-99-396-9174	
<b>Rigging line and cables</b>			
KT-600-303	Lightweight ultra strong low stretch rigging line 1.5mm diameter x 50m on mini hand reel	1385-99-696-3557	
KT-200-608	General purpose low stretch EOD rigging line 2mm diameter x 50m on hand reel	4020-99-690-7739	
KT-200-401	General purpose low stretch EOD rigging line 2mm diameter x 110m on winding spool		
KT-200-465	Heavy duty ultra strong low stretch tactical rigging line 2mm diameter x 66m on winding spool	4020-99-858-2403	
KT-200-396	Heavy duty ultra strong low stretch tactical rigging line 2mm diameter x 110m on winding spool - black	4020-99-994-2195	
KT-200-397	Heavy duty ultra strong low stretch tactical rigging line 2mm diameter x 110m on winding spool - rhed		
KT-602-317	Black and tan detonator cable - 150m (cable only)		
KT-602-318	Black and tan detonator cable - 150m (on caddy)		
KT-602-319	Black and tan detonator cable - 250m (cable only)		
KT-602-320	Black and tan detonator cable - 500m (cable only)		
KT-602-321	Black and tan detonator cable - 1000m (cable only)		
KT-600-288	Lightweight firing cable - 50m on hand reel	6145-99-991-1905	
KT-600-219	Lightweight firing cable - 125m on (cable only)		
KT-600-229	Lightweight firing cable - 250m on (cable only)		
KT-600-259	Lightweight firing cable - 500m on (cable only)		
KT-600-111	Lightweight firing cable - 110m on winding spool	1385-99-553-6941	
KT-600-015	Lightweight firing cable - 15m on mini hand reel		
KT-600-888	Phoenix flex - hook and line rope with integral multi-core firing cable - 125 (137 yards)	1385-99-613-5638	GS-07F-0373W
KT-600-802	Phoenix flex - hook and line rope with integral multi-core firing cable - 125 on caddy (137 yards)		
<b>EOD Tools</b>			
KT-212-421	Flat pack grappling hook	1385-99-512-2206	
KT-212-221	Ceramic cutting hook	1385-99-216-1313	
KT-212-821	Ceramic blade Stanley style	1385-99-190-7659	
KT-600-300	KORONA non-explosive wire cutter	1385-99-979-8746	
KT-600-305	KORONA ceramic blade set	1385-99-667-6244	
KT-600-311	KORONA metal blade set for training only	1385-99-256-7313	
KT-600-392	K-Cutter electronic wire cutter	1377-99-968-6731	
KT-306-235	Flying ceramic knife	1385-99-867-9454	
KT-306-292	Flying ceramic window breaker	1385-99-840-3820	
KT-200-507	Flying spike (for multi-role disrupter and needle)	1385-99-975-1918	
KT-200-527	Flying spike (for PAN)		
KT-200-555	Flying spike (for carbon 10)	1385-99-153-1155	
<b>Mission Control</b>			
KT-950-081	Kinesis Plus unit	KT-950-081	
KT-950-082	Kinesis Plus kit (ten units and support equipment)	KT-950-082	

Please contact us if you need assistance finding the correct part number. Bespoke solutions will not necessarily be assigned a part number.



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