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serving for a better tomorrow



Industry Leading Counter IED Solutions



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boots

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Part of the Teledyne Imaging Group

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Our Dynamic Operations

M/s. **R K & Sons** was founded on 21 Jun 1993 at Pune by **Mr. Mukesh Sharma** under the guidance of **Shri Krishna Gopal Sharma**. Ever since, the Company has been a regular Supplier of high technology solutions, systems and equipment in the prime areas of Defence and Security on global scale.

The strength of our Company lies in its ability to procure and deliver equipment in any category from any part of the world with speed. This is possible because of the excellent association and tie-ups with the OEM (Original Equipment Manufacturer) and reputed dealers in the country of manufacture of the equipment.



Mr. Mukesh Sharma
R K & Sons, Pune

In particular the company is engaged in the under mentioned broad activities:

- (a) Supply of Defence equipment.
- (b) Provision of Back-up support.
- (c) Provision of Upgraded version.
- (d) Provision of Post Warranty period maintenance – On site and at factory.
- (e) Provision of on m/c training at site.

The company has in the past delivered equipment to the Indian Army, Indian Navy and Indian Air-Force, Para-Military Forces (BSF & CRPF), CPOs and State Police, Airports Authority of India and Civil Defence Organisations.

The broad categories of defense equipment which can be supplied are:

- (a) Combat Engineering – Demolition Sets, Mine Detection & Clearance equipment, Field Engineering equipment etc.
- (b) Counter Improvised Explosive Devices - Handling, Detection and Disposal.
- (c) Surveillance Devices – Radars, Battle field Surveillance Equipment and UAVs.
- (d) Other Equipment such as Laser Range Finders and electronic equipment.
- (e) Nuclear, Biological and Chemical Protection related equipment.
- (f) Indoor and Outdoor Shooting Range related equipment.
- (g) Road Traffic Safety equipment.
- (h) Any other user specific requirement.

A list of latest products available in the world for the above applications is enclosed for your kind perusal. All these can be delivered at any location in the country in the shortest possible delivery period.

Assuring you of our prompt and reliable services always in salutation to your noble profession and as a mark of respect to the guardians of our frontiers.



Mukesh Sharma

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Sarvatra Abheda Bomb Suit / Series III EOD/IEDD SUIT

Key Features



Blast Plates



Increased downward and periphery visibility



Internal Groin Protector



Spine Protector



90% reduction in pressure (head and chest)



Quick release system for Incapacitated doffing



Protection against Blast overpressure, thermal effect, fragmentation and shrapnel



More than 270+ Suits commissioned in India

Specially designed and developed for Indian Armed Forces and State Police BDDS

Overview

The Sarvatra Abheda / Series III Bomb Disposal Suit is a part of our range of competitively priced high protection Bomb Disposal suits.

Various accessories are supplied with the Sarvatra Abheda / Series III Bomb Disposal suit, including a new type of 100 metre hard wired communications kit and cooling suit.

The Sarvatra Abheda / Series III Bomb Disposal Suit has the following components that are supplied in a carrying bag mounted on a trolley, or it can be used as a backpack.

- Helmet
- Blast Plate
- Spine Protector
- Hand Gloves
- Smock
- Trousers
- Overshoes
- Groin Protector
- Communication Base Station/ Wireless communication

The Sarvatra Abheda / Series III Bomb Disposal Suit provides a high level of performance and protection, extremely rugged, user friendly, uncomplicated, and requires the minimum of service and maintenance. The suit is designed so that the operator can rapidly remove the bomb suit within seconds. When pulled, two toggles on the smock/jacket allow the smock to fall away from the operator.



Product Specification

Cooling Fan	Integrated into the helmet to blow cooling air onto the visor, preventing misting up.
Speed	Variable – output 0 - 220 litres/minute
Internal Liner	Fire- resistant material is used for the outer cover of The Sarvatra Abheda / Series III Bomb Disposal Suit Additional liners can be purchased for multi operator use. Sizing pads for small and medium operators are provided.
Inner Layer	Comfort foam
Outer Layer	Shock absorbent
Smock/Jacket	Complete all- round protection for front, back, torso, 360° neck, shoulder and total arm protection. Proprietary protective aramid inserts are comprised of a multi- pack system to provide optimum suit flexibility. Arm protection is articulated. Hand protectors are separate and attach to the sleeves.
Emergency Evacuation	Designed for the operator to rapidly remove the entire suit within seconds, with exception of the internal groin protector. Smock is equipped with two toggles on the right- hand side which allows the smock to be pulled away when pulled.
Remote Controller	Allows operator to adjust the fan speed, ie. The air flow into the helmet. Provided operator control of the volume of the communications, whether from the base station or integrated hand- held wireless radio system. Provides operator control of the volume of the ambient (environmental) sound. Each control is positioned so the operator knows exactly which control adjustment knob he's adjusting without the necessity to see.
Helmet	
Communication	Helmet has in- built microphone and speakers, communications are compatible with the hardwire duplex system, or with two - way radios when VOX can be used.
Connector	Has combined power and communication cable which has a built- in Emergency Fischer plug with disconnects during emergency evacuation.
Visor	Made from hardened, scratch - resistant acrylic with polycarbonate backing.

Optional Features

Communications: available with proprietary 100 m duplex hardwire system, or VOX- enabled VHF/UHF transceivers which plug into the remote controller on the front of the smock. All controllers are VOX - compatible to accommodate this feature. Radio models must be tested prior to delivery to confirm compatibility.

Cooling Suit: fire resistant kermel. One- piece fire resistant garment with cooling tubes and external connectors. Worn as close to the body as possible to obtain maximum benefit. Head hood with connectors for neck of the main garment. External pump and ice bottle container in self - contained carry bag, attached to left - hand side of smock with straps and Velcro provided. Self- contained NiCad battery power supply identical and interchangeable with the suit power supply. Running time at maximum flow rate is 1 hours 30 mins. The emergency standard C cell battery pack can also be used.

Duplex Hardware Communications: 12 V DC 4.5 Ah rechargeable battery. Base station is built into a ruggedized aluminium case, complete with battery status indicator. Built - in 220 V AC charger with connecting cord. Custom-made heavy duty reel, simple and field serviceable. External speaker with on - off switch. Headset with speakers and microphone. Input for 12 V DC charger. Output for digital recorder. Reel with rewind guide, 100 m wire (with option for 125 m) and connecting plug to fit into the remote - control on the EOD smock. Reel comes with built - in slip - ring, allowing operator to be in communication throughout deployment and retrieval. Webbing guides are provided on the smock to lead the wire to the remote controller.



Product Specification

Automatic High Sound Level Cut Out	The ambient sound will be immediately muted if noise exceeds pre - set level of 70 decibels.
Ambient Sound	The internal speakers allow the operator to hear communications from the base station as well as ambivalent (environmental) sound.
Headlamp	Adjustable headlamp situated on the front of the helmet. 3x AAA batteries power the headlamp.
Low Battery Warning	Audible low battery warning that will beep every 30 seconds, occurring when battery drops to 11 V (25% of battery life remains).
Helmet Emergency Evacuation	Chinstrap has a quick release press stud (red tab) so that the helmet may be discarded quickly by the operator in the event of an emergency.
Blast Plates	Lightweight composite providing excellent fragmentation resistance. Plates attach to the suit with buckles to accommodate the emergency release toggles, so the smock and plates will come off as one unit.
Carry Bag/Backpack	Supplied in two heavy - duty bags. Smock bag contains the smock and spine protector. The trouser bag contains the trousers, groin protector, overshoes and blast plates. The two bags are then packed into a larger storage bag that is mounted on a lightweight strong frame that can be used as a carry bag or it can be used as a backpack, with built - in wheels it can be used as a trolley. The storage bag unfolds and can be used as a ground sheet when opened up fully to unpack the suit.
Trousers	All- round protection with extra frontal integrated thigh and shin protectors. The trousers overlap with groin protector. Fire - retardant zips with a quick - release function. Overshoe integration system is built on to the bottom of the trousers. Trousers have adjustable braces, which adjust both by length and position to provide maximum comfort for the wearer. Red quick - release zips are used, plus red coloured tabs on the braces enable the trousers to be quickly discarded in an emergency.
Power Supply	Provided in a pouch that is worn on the right - hand side of the suit, carried on a belt and can be positioned where the operator finds it to be most convenient. 12 V DC power supply by 10 C cell rechargeable NiCad batteries and will provide power to the helmet fan and communications for at least 3 hours at maximum fan speed. Audible battery low warning buzzer gives the operator ample time to change batteries if required. Charger provided for the power supply that can work from mains or 12 V DC. Charging time is 10 hours. The unit will not damage the batteries if left on for prolonged periods. Emergency back- up power pack utilizes 8x standard C cell batteries (not supplied). This back- up power source can be used with the Series III or Cooling Suit.
Groin Protector	Lightweight separate protector for lower abdomen, groin and inner thighs; elasticized colour coded straps for ease of use. Ergonomically designed for maximum comfort. Worn underneath the smock and trousers. Added protection provided by the smock which comes down to mid - thigh and the trousers which are in front of the groin protector, the combination provides an extremely high level of protection.
Spine Protector	Provides protection from violent de - acceleration on either side of the spine. Multi - layer foam laminate construction with progressively increasing de - acceleration properties, held in position with quick release elastic straps.



Product Specification

Materials

Outer cover: Fire- resistant Nomex
 Velcro: Fire- resistant external Velcro
 Ballistic Materials: Aramid
 BlastPlates:Composite
 Visor: HardenedAcrylic/Polycarbonate

V50 Calculated As Per Stanag 2920 With .22cal 17grain Fs.p

ITEM	V50 m/s	V50 ft/sec
Helmet	480	1574
Helmet front	600	1968
Visor	800	2624
Helmet beard	480	1574
Collar front	610	1859
Collar front centre	1000	3280
Collar rear	480	1574
Sleeves front	565	1853
Sleeves rear	480	1574
Smock front	610	2001
Chest plate "V0"	1800+	5905+
Groin plate "V0"	1800+	5905+
Smock back	480	1574
Groin protector	480	1463
Trousers thigh	700	2296
Trousers shin	700	2296
Trousers rear	340	1115
Overshoes	500	1476
Hand protector	450	1476

Suit colours : Black, Olive Green, Desert Tan, Navy Blue

Suit upgrade aspects

- Improved suit integrity during blast exposure with enhanced over pressure attenuation layers
- New front-facing Double Skin Outer Shell, incorporating our own new proprietary design of high tensile strength blast resistant outer with flame retardant core backing
- Double locking blast plate mounting system
- IP 67 Electronics upgrade
- Lithium Ion power source
- Incapacitated doffing
- Dual grab handle



Qo8.0





Sarvatra Abheda MK II Bomb Suit / Series III+ EOD/IEDD SUIT



India's First NIJ Complaint Bomb Disposal Suit

Key Features



Blast Plates



Increased downward and periphery visibility



Internal Groin Protector



Spine Protector



90% reduction in pressure (head and chest)



Quick release system for Incapacitated doffing



Protection against Blast overpressure, thermal effect, fragmentation and Shockwave

Specially designed and developed for Indian Armed Forces and State Police BDDS

The Sarvatra Abheda MK II /Series III + Bomb Disposal Suit has the following components that are supplied in a carrying bag mounted on a trolley, or it can be used as a backpack.

- Helmet
- Blast Plate
- Spine Protector
- Hand Gloves
- Smock
- Trousers
- Overshoes
- Groin Protector
- Communication Base Station/ Wireless communication

The Sarvatra Abheda / MK II /Series III + Bomb Disposal Suit provides a high level of performance and protection, extremely rugged, user friendly, uncomplicated, and requires the minimum of service and maintenance. The suit is designed so that the operator can rapidly remove the bomb suit within seconds. When pulled, two toggles on the smock/jacket allow the smock to fall away from the operator.



SARVATRA ABHEDYA MK II /SERIES III+ EOD SUIT

The all-new SARVATRA ABHEDYA MK II /SERIES III+ suit has a host of new and formidable features including improved blast protection. It is essentially an upgrade on the SARVATRA ABHEDYA MK II /SERIES III+, with the core focus on improving the critical systems while still using the original solid SARVATRA ABHEDYA MK II /SERIES III+ platform. We have also addressed the requirements in the NIJ 0117.01 Bomb Suit Standard including the blast and fragmentation required performances.

Product Specification

Cooling Fan	Integrated into the helmet to blow cooling air onto the visor, preventing misting up.
Speed	Variable – output 0 - 220 litres/minute
Internal Liner	Fire- resistant material is used for the outer cover of The Sarvatra Abheda MKII / Series III+ Bomb Disposal Suit Additional liners can be purchased for multi operator use. Sizing pads for small and medium operators are provided.
Inner Layer	Comfort foam
Outer Layer	Shock absorbent
Smock/Jacket	Complete all- round protection for front, back, torso, 360° neck, shoulder and total arm protection. Proprietary protective aramid inserts are comprised of a multi- pack system to provide optimum suit flexibility. Arm protection is articulated. Hand protectors are separate and attach to the sleeves.
Emergency Evacuation	Designed for the operator to rapidly remove the entire suit within seconds, with exception of the internal groin protector. Smock is equipped with two toggles on the right- hand side which allows the smock to be pulled away when pulled.
Remote Controller	Allows operator to adjust the fan speed, ie. The air flow into the helmet. Provided operator control of the volume of the communications, whether from the base station or integrated hand- held wireless radio system. Provides operator control of the volume of the ambient (environmental) sound. Each control is positioned so the operator knows exactly which control adjustment knob he's adjusting without the necessity to see.
Helmet	Helmet has in- built microphone and speakers, communications are compatible with the hardwire duplex system, or with two - way radios when VOX can be used.
Communication	
Connector	Has combined power and communication cable which has a built- in Emergency Fischer plug with disconnects during emergency evacuation.
Visor	Made from hardened, scratch - resistant acrylic with polycarbonate backing.



R K & Sons, Pune

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COOLING SUIT

The Holdfast Cooling Suit Is designed to offer a safe and cool environment for people who must maintain a high level of efficiency and concentration under extreme heat. The system is ideally suited for people involved in bomb disposal and surveillance operations as well as personnel in non-airconditioned armoured vehicles.

The Holdfast Cooling System uses ice water to remove body heat produced during strenuous work, especially in hot environments.

The suit requires no hazardous pressurised canister or toxic cooling agents. Made from machine washable, fire retardant Nomex or Kermel, The Holdfast

Cooling Suit also offers protection against heat and flash fire. Testing of the suit on the effects of over-pressure, fragmentation, ballistics, body impact and heat have shown this suit is suitable for use under bomb suits, chemical suits and many other applications where body heat removal is desirable.

The kit includes a one-piece suit design with cooling on trunk, arms and legs; a close fitting open-faced hood with cooling or head, a cooling unit and pouch, two water bottles, battery pack and carrying bag.



COOLING SUIT SPECS

Performance:

Heat removal rate: 270 watts (full suit)
Endurance: 45 minutes at 35°C (95°F)

Cooling Unit:

Control: On/Off
Pump: 12V
Cold source: Ice cubes and water
Power: External pack

Weights:

Suit: 1.0 kg
Cooling unit dry: 0.5kg
Ice cubes: 1.2 kg
Water: 0.7 kg
Battery pack: 0.5 kg

Material

Garment: Nomex or Kermel inherently flame-retardant stretch knit fabric

Sizing:

Small: 150-175 cm; 40-75 kg
Medium: 170-185 cm; 70-90 kg
Large: 175-193 cm; 85-110 kg



Compatibility:

- Worn next to the skin under any clothing
- Cooling unit can attach to bomb suit with Velcro
- Second water/ice bottle supplied for standby
- Large capacity ice water container can be supplied.





Project TriShakti / Tactical IEED Search Suit

PROJECT TRISHAKTI / TACTICAL IEED SEARCH SUIT

PROJECT TRISHAKTI / TACTICAL IEED SEARCH SUIT



Project TriShakti / Tactical IEED Search Suit designed as a modular light weight Search or Tactical EOD Suit System. The Suit offers full 360 degree blast and fragmentation protection.

Further shielding is provided by composite Blast-Plates which provide high levels enhanced frontal blast resistance.

The upper torso has increased NIJ level II protection front and back. With the modular capability the Jacket can be worn separately as body armour with the option to insert Up-Armour Plates both front and back to increase protection further to NIJ level III.

Components: Jacket, Arms, Trousers

Materials:

Outer Shell: Fire Retardent Viscose

Protective inserts: Aramid

Protection Ratings:

Jacket V50 550m/s & NIJ Level II

Weight:

Suit 13kg

Blast Plate 3,8kg

Suit colours : Black, Olive Green, Desert Tan,
Navy Blue

Project TriShakti / Tactical IEED Search Suit Helmet



The Tactical Search Suit Helmet and Visor has a high fragmentation resistance to match that of the Tactical Search Suit. The helmet comes with a four point adjustable suspension system and is wireless communications system ready.

Materials:

- Helmet Shell – Moulded GRP
- Helmet core – Elastomeric Aramid laminate
- Visor – Polycarbonate Acrylic fusion

Weight: Helmet and Visor 2,6kg

Protection Ratings

- Helmet V50 450m/s
- Visor V50 450m/s

Total System Weight: 16.5kg



Bomb Suppression Blanket



Protection

Common V50 protection

levels:

- V50 450 m/s
- V50 500 m/s
- V50 550 m/s
- V50 600 m/s
- V50 650 m/s

Colors

- As per customer specification

BOMB SUPPRESSION BLANKET

The Bomb Suppression Blanket is designed to be a first response tool for any public area where a suspect parcel is discovered. It is very simple to use and can be deployed very quickly. The net result being that in the event of the device initiating before the Bomb Squad can render it safe, the Bomb Blanket will greatly reduce the effective blast and fragmentation radius of the explosive device.

Most of the energy is directed straight upwards greatly reducing the overall lateral effect.

Materials

- Outer Cover - UV, Water resistant Nylon
- Protective Insert - Aramid or Ballistic Nylon

Size

Sizes are customizable to specification.

Some common dimensions

- Blanket 1.25 m x 1.25 m with Safety Circle 0.2 m (height) x 0.2 m (diameter)
- Blanket 1.5 m x 1.5 m with Safety Circle of 0.4 m (height) x 0.4m (diameter)

- Blanket 2 m x 2 m with Safety Circle of 0.6 m (height) x 0.6m (diameter)





R K & Sons

serving for a better tomorrow

INDIA'S ONLY FIRM TO OFFER LIVE BLAST TESTING FOR OUR END USERS



BLAST TESTING FOR OUR END USERS



GeM
Government
e Marketplace



R K & Sons, Pune

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Mob: +91 9823052889 / +91 9823005458

Proudly Introducing the Padamkavach Boot Anti Mine Series



PADAMKAVACH Boot Anti Mine Infantry

India's only Non-Metallic and Non-Ceramic Boot Anti Mine in Joint Development with JSIIC

Salient Features:

- Manufactured using best in class, high quality, hydrophobic whole-grain leather sourced from Indian Tanneries
- 70% Make in India content
- Lightweight, comfortable and ergonomic fit
- Anti-perforation system
- Special textile lining, instep, hip and heel, DRILEX from 100% PA
- Patented Anatomical and energy absorbing interchangeable insole
- PADAMKAVACH outsole with Intelligent and metal free components
- Thermoplastic Toe puff
- International accredited Laboratory testing of BAMI with respective explosive charges of 35gm, 50gms and 70gms
- Absorption of initiating energy explosion minimized 99%.
- Protection against Shockwave, fragmentation, overpressure and thermal effects
- Advanced composite material for maximum absorption
- Operable in extreme weather conditions ranging from -20°C to +50°C
- Fit for use in all terrains (mud, sand, snow, rocks)
- Warranty time is 24 months from date of acceptance of each lot
- Service life / shelf life 5 years for boots stored correctly in warehouse
- Boot must be stored in original box and cartoon. Place of storage must be dry, temperature max 35°C. Boot must be protected against direct light

PADAMKAVACH MK I Boot Anti Mine Infantry

India's only Non-Metallic and Non-Ceramic Boot Anti Mine in Joint Development with JSIIC

Producer: RK & SONS, PUNE

Code: PADAMKAVACH MK I

Warranty: 24 months

DATA SHEET

Height: 27 cm

Weight: 3,0 kg

Material: Leather

Sole: AM Rubber

Type: (C) Semi top

Lining: Textile



ISO EN 20347: specifies working boots for professional uses marked by letter "O".

The basic feature of working boots is that boots have no in-built toe puff.

Blast test: Blast test 35gms TNT, absorption of initial explosive energy min. 99%

MORE INFO

- PADAMKAVACH MK boot upper is made of smooth, hydrophobic grain leather thickness of 2.2-2.4(mm)
- PADAMKAVACH MK / has a closed tongue and bandaged collar of PDM (thickness 5-8 mm) and smooth, hydrophobic grain leather, (thickness of 1.0-1.3 mm)
- PADAMKAVACH MK has plastic or leather counter
- PADAMKAVACH MK has lining on the vamp, back side and tongue made of DRILEX – a special non-woven PA textile, 100% PA brand name DRILEX
- PADAMKAVACH MK has thermoplastic toe puff
- PADAMKAVACH MK patented anatomic shock absorber replaceable sock
- PADAMKAVACH MK intelligent metal free system of sole
- PADAMKAVACH MK anti-perforation system
- PADAMKAVACH MK AM has lacing, 4 eyelets + 4 passes through
- Boot height size 42/8: 27 cm
- Color: Black

PADAMKAVACH MK II Boot Anti Mine Infantry

India's only Non-Metallic and Non-Ceramic Boot Anti Mine in Joint Development with JSIIC

Producer: RK & SONS, PUNE

Code: PADAMKAVACH MK II

Warranty: 24 months

DATA SHEET

Height: 28,5 cm

Weight: 3,450 kg

Material: Leather

Sole: AM Rubber

Type: (C) Semi top

Lining: Textile

ISO EN 20347: specifies working boots for professional uses marked by letter "O".

The basic feature of working boots is that boots have no in-built toe puff.

Blast test 50gms TNT, absorption of initial explosive energy min. 99% Blast test:



MORE INFO

- PADAMKAVACH MK II-boot upper is made of smooth, hydrophobic grain leather thickness of 2.2-2(4 mm)
- PADAMKAVACH MK II has a closed tongue and bandaged collar of PDM (thickness 5-8 mm) and smooth, hydrophobic grain leather, (thickness of 1.0-1.3 mm)
- PADAMKAVACH MK II has plastic or leather counter
- PADAMKAVACH MK II has lining on the vamp, back side and tongue made of DRILEX - a special non-woven PA textile, 100% PA brand name DRILEX
- PADAMKAVACH MK II has thermoplastic toe puff
- PADAMKAVACH MK II patented anatomic shock absorber replaceable sock
- PADAMKAVACH MK II intelligent metal free system of sole
- PADAMKAVACH MK II anti-perforation system
- PADAMKAVACH MK II has lacing, 4 eyelets + 4 passes through
- Boot height size 42/8: 28,5 cm
- Color: Black
- Weight size 46/11: maximum 3.000 g / per pair
- Sizes assortment: 39/6-48/13

Additional information:

- Life span is 5 years
- Guarantee period is 2 years from date of application of the boots
- Packing charges: NO
- FOB charges: NO
- Export License Charges: NO

Packing:

- Size 6-10 □
Box dimension: 63 cm x 36 cm x 40 cm / 0,09 m³ □
Gross/Net weight: 16,5 kg / 13,5 kg
- Size 11-13 □
Box dimension: 63,5 cm x 48,5 cm x 35,5 cm / 0,11 m³ □
Gross/Net weight: 18 kg / 15,0 kg

PADAMKAVACH MK III Boot Anti Mine Infantry

India's only Non-Metallic and Non-Ceramic Boot Anti Mine in Joint Development with JSIIC

Producer: RK & SONS, PUNE

Code: PADAMKAVACH MK III

Warranty: 24 months

DATA SHEET

Height: 29,5 cm

Weight: 3,9 kg

Material: Leather

Sole: AM Rubber

Type: (C) Semi top

Lining: Textile

ISO EN 20347: specifies working boots for professional uses marked by letter "O".

The basic feature of working boots is that boots have no in-built toe puff.

Blast test: Blast test 70gms TNT, absorption of initial explosive energy min. 99%

MORE INFO

- PADAMKAVACH MK boot upper is made of smooth, hydrophobic grain leather (thickness of 2.2-2.4 mm)
- PADAMKAVACH MK has a closed tongue and bandaged collar of PDM (thickness 5-8 mm) and smooth, hydrophobic grain leather, (thickness of 1.0-1.3 mm)
- PADAMKAVACH MK has plastic or leather counter
- PADAMKAVACH MK has lining on the vamp, back side and tongue made of DRILEX - a special non-woven PA textile, 100% PA brand name DRILEX
- PADAMKAVACH MK has thermoplastic toe puff
- PADAMKAVACH MK patented anatomic shock absorber replaceable sock
- PADAMKAVACH intelligent metal free system of sole
- PADAMKAVACH anti-perforation system
- PADAMKAVACH MK has lacing, 4 eyelets + 4 passes through
- Boot height size 42/8: 29,5 cm
- Color: Black
- Weight size 46/11: maximum 3.450 g / per pair
- Sizes assortment: 39/6-48/13



Additional information:

- Life span is 5 years
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- Packing charges: NO
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Packing:

- Size 6-10 □
Box dimension: 63 cm x 36 cm x 40 cm / 0,09 m³ □
Gross/Net weight: 19,0 kg / 16,0 kg
- Size 11-13 □
Box dimension: 63,5 cm x 48,5 cm x 35,5 cm / 0,11 m³ □
Gross/Net weight: 20,5 kg / 17,5 kg



R K & Sons
serving for a better tomorrow



Searching with Excellence

vallon.de

Detectors and Systems for Mine and Explosive Ordnance Clearance

**Land Mines, IEDs,
Submunition and UXO**



R K & Sons
serving for a better tomorrow



VALLON

VMC4 Metal Detector

The Next Generation - Experience Meets High Tech

- ✓ Top-Level sensitivity
- ✓ Detection of low-conductive materials as for example carbon rods
- ✓ Wire detection
- ✓ Green LED's for best visibility at daylight
- ✓ Infrared LEDs for use with night-vision devices
- ✓ Highly effective soil compensation
- ✓ Audio, visual and vibration feedback
- ✓ Bluetooth® and WiFi interface
- ✓ Integrated web-server
- ✓ Communication with mobile devices through standard browsers
- ✓ Integrated GPS automatic and manual triggering of waypoints





The Vallon metal detector VMC4 is designed to meet the very specific needs of special forces.

All the features a Vallon user expects from his detector are included. Ruggedness is paired with simple operation and extremely high sensitivity.
On all soils.
Under all conditions.

New technologies in combination with highest degree of minaturization allowed for new features like Bluetooth®, WiFi, integrated web-server and GPS as the other Vallon 4th Generation Metal Detectors.

And since the quality of threats in military scenarios changed, the VMC4 detects not only metals but also carbon rods frequently being used to trigger IEDs.

The optional hard case offers safe and convenient transport of the complete set including pouch and accessories.

Technical Data

General:

Power supply: (alternative)	8 ea. 1.5 V battery LR6 (AA) 8 ea. 1.2 V rech. battery HR6 (AA) 2 ea. 1.2 V rech. battery HR20 (D)
Battery life: programme	approx. 8 hours depending on battery type and soil
Sweeping speed:	0.2 - 1.5 m/s — standard 0 - 0.2 m/s — pinpointing
Operation temperature:	-31° C to +63° C
Storage temperature:	-51° C to +71° C
Environmental	according to MIL-STD 810G (501.5 I+II, 502.5 I+II, 502.4-II, 503.5 I, 514.6 I, 516.6 IV)
Metal alarm:	acoustic via loudspeaker or headset visual via LED-bargraph vibration alarm
Power line suppression:	automatic
Waterproof:	up to 5 meters
IP Code:	IP68

Dimensions:

Search coil:	273 x 120 x 25 mm
Operational length of telescopic carrying bar with search coil:	min. 535 mm ±5 mm max. 1130 mm ±5 mm
Transport pouch:	approx. 285 x 122 x 65 mm
Weights:	
Detector with batteries:	approx. 1.25 kg
Transport weight in transport pouch: incl. operation manual, field manual and batteries AA size	approx. 1.45 kg
Transport weight in transport pouch: incl. operation manual, field manual and batteries D size	approx. 1.49 kg

NSN 6665-12-409-1377

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10/2018



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VALLON

VMH4 Metal Detector

The Next Generation - Experience Meets High Tech

- ✓ Top-Level sensitivity
- ✓ Detection of low-conductive materials as for example carbon rods
- ✓ Wire detection
- ✓ Green LED's for best visibility at daylight
- ✓ Infrared LEDs for use with night-vision devices
- ✓ Highly effective soil compensation
- ✓ Audio, visual and vibration feedback
- ✓ Bluetooth® and WiFi interface
- ✓ Integrated web-server
- ✓ Communication with mobile devices through standard browsers
- ✓ Integrated GPS automatic and manual triggering of waypoints
- ✓ Exchangeable search head





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VALLON

The Vallon metal detector VMH4 is designed to meet the very specific needs of mine clearance professionals in military and humanitarian demining scenarios.

All the features a Vallon user expects from his detector are included. Ruggedness is paired with simple operation and extremely high sensitivity.

On all soils.

Under all conditions.

New technologies in combination with high degree of miniaturization allowed for new features like *Bluetooth®*, integrated web-server and GPS as the other Vallon 4th Generation Metal Detectors.

And since the quality of threats in military scenarios changed, the VMH4 detects not only metals but also carbon rods frequently being used to trigger IEDs.

series.
The optional hard case offers safe and convenient trans-

port of the complete set including backpack and acces



Technical Data

General:

Power supply:	3 ea. 1.5 V standard batteries (D-size) or 3ea 1.24 V rechargeable battery KR35/62
Battery life:	approx. 20 hours depending on battery type and soil programme
Sweeping speed:	0.2 - 1.5 m/s — standard 0 - 0.2 m/s — pinpointing
Operation temperature:	-31° C to +63° C
Storage temperature:	-51° C to +71° C
Environmental	according to MIL-STD 810G (501.5 I+II, 502.5 I+II, 502.4-II, 503.5 I, 514.6 I, 516.6 IV)
Metal alarm:	acoustic via loudspeaker or headset visual via LED-bargraph vibration alarm
Power line suppression:	automatic
Waterproof:	up to 4 metres

Dimensions:

Search head VS20:	200 Ø ± 5 mm
Search head VS30:	300 Ø ± 5 mm
Search head VS60:	600 Ø ± 5 mm
Operational length of telescopic carrying bar with search head:	min. 550 mm ±5 mm max. 1450 mm ±5 mm

Backpack:	approx. 520 x 320 x 150 mm
-----------	----------------------------

Weights:

Detector with batteries:	approx. 2.5 kg
Transport weight in field backpack: incl. operation manual, field manual and batteries	approx. 4.6 kg

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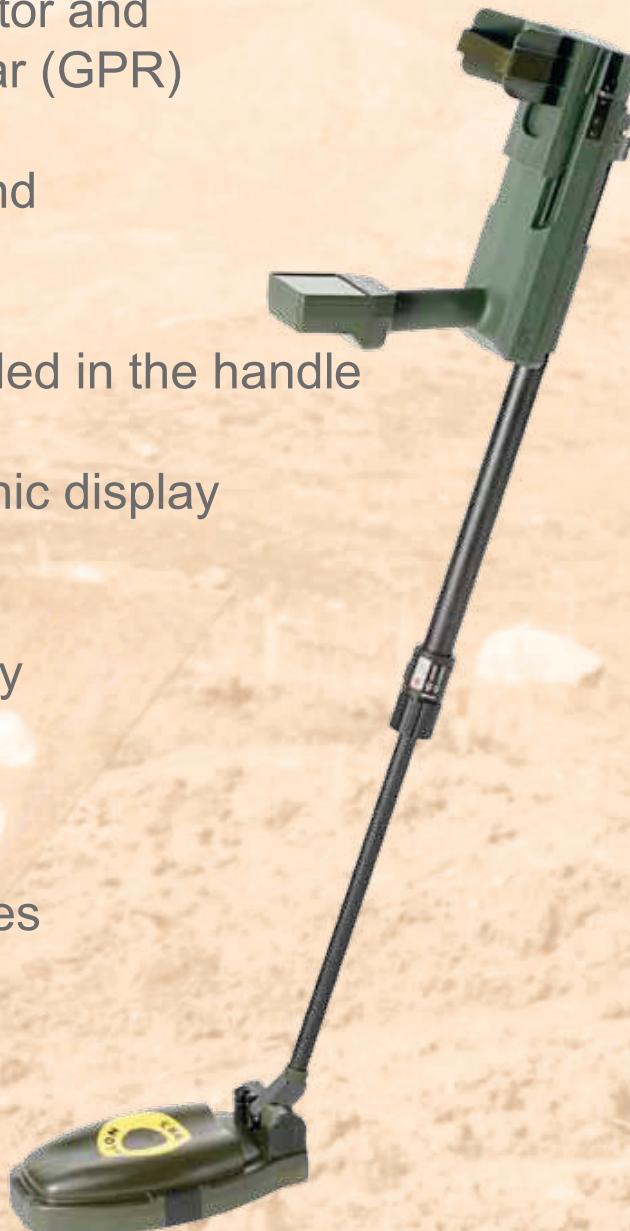
Issue 04/2017

MINEHOUND VMR3G

DUAL SENSOR IED DETECTOR with Graphic Display

Comprising a metal detector and a ground penetrating radar (GPR)

- Detection of metal-free and metal mines and IEDs
- Control elements embedded in the handle
- Easy operation with graphic display
- Alarm:
 - visual on graphic display
 - audio signal
 - vibration
- 3 different operation modes
- Ultra high sensitivity
- Lightweight



Transportation

The MINEHOUND VMR3G comes ready-to-use in a transportation case, with the below accessories:

- Four test pieces (mine surrogate)
- Two rechargeable Li-polymer batteries
- Charger for 2 battery blocks
- Mains cable, 2-fold
- Battery compartment for 4 round cells D-size
- 4 x 1.5 V round cells D-size
- Belt for arm-rest
- Carrying belt for detector
- Headset
- Field manual
- Operation manual
-



Technical Data

Measuring principle:	Dual sensor MD + GPR	ON-OFF-Button:	ON, OFF
Weight (ready for operation): with one Li-polymer battery	approx. 4.2 kg	Settings:	N = normal soil M = mineral soil SETUP
Telescopic bar length: (handgrip - search head)	approx. 53 - 92 cm		increase / reduce sensitivity increase / reduce volume soil compensation
Dimensions of search head:	approx. 17.8 x 31.4 cm	OPERATION MODE:	MD only GPR only MD and GPR
Power Supply:	Lithium Polymer cells, rechargeable, additional: battery compartment for 4 x 1.5 V, D-cells	Sweep speed:	< 1.5 m/sec
Power consumption:	approx. 5 W	Input/Output:	Headset Firmware upgrade
Operation Temperature:	-30 °C to +63 °C	Performance MD / GPR	
Storage Temperature:	-30 °C to +71 °C	Operation in all conventional soil conditions worldwide. The GPR detects objects in almost all soil conditions, but not in heavy clay (like used for pottery) or salt water.	
Environmental conditions:	According to MIL STD 810F F501.4-I, II, F502.4-I, II, F503, 4-I, F506.4-III, F512.4-II, F516.5-IV		
Soil programmes (MD):	normal soil mineral soil		
Waterproof:	0.2 m		
Alarm signal:	audio (volume adjustable) visual vibration		
Transport case:	102 x 43 x 17 cm	All technical data are subject to change without prior notice.	
Transport weight:	approx. 14.4 kg	Issue 04/2014	

MINEHOUND VMR3G

The MINEHOUND VMR3G is a state-of-the-art dual sensor detector, comprising a high-performance metal detector (MD) produced by Vallon GmbH and a leading-edge ground penetrating radar (GPR) developed by Cobham Technical Services (Cobham, United Kingdom).

Using high quality and lightweight materials like for example carbon and glass fibre reinforced plastic, makes the unit robust and light at the same time. It has been designed specifically for use in the most challenging military and humanitarian operations. Its capability to detect IEDs makes the VMR3G a perfect choice for many search tasks.

Both detection systems (MD + GPR) can be activated separately or together.

The MINEHOUND VMR3G is characterised by its easy-to-read display and clear readings:

- graphic view of the alarms MD and GPR
- graphic view of the GPR parameters
- battery power level
- sensitivity
- language



Positions for standing

Position for kneeling



Different graphical representation of alarms, either by LEDs or by charts.



Individual configuration of the ground penetration radar.

Start point and stop point of the detection range of the GPR, depth gain and surface gain.



Individual sensitivity settings and volume settings of metal detector and ground penetrating radar.

Status bar:

- indication of active sensor(s)
- indication of selected soil program
- indication of object filter(s) or environmental influences regarding selected soil program
- indication of battery level
- indication language settings



The very powerful lithium polymere battery is attached to the electronics unit.



Two batteries can be charged with the charger provided with the kit at the same time. LED-indicators



Ferrous Locator VX1

Universal set for the detection of UXO's
on land, under water and in boreholes



- Compact, low weight, ergonomic
- For land, boreholes & water
- Detachable control unit for easy detection in boreholes
- No probe adjustment required
- Digital probe technology
- Probe mechanically adjustable in height
- Data output USB, Bluetooth®& serial
- Detachable probe, suitable for multisensor systems

Scope of delivery

FERROUS LOCATOR VX1 "SURFACE"

Art-no. 2003170000

Scope of delivery:

Carrying bar with telescope, control unit, probe VSM, case, backpack, carrying belt, headset, operation manual, 4x 1.5 V single cell battery type D



FERROUS LOCATOR VX1 "SURFACE + BOREHOLE"

Art-no. 2003170002

Scope of delivery:

identical with art-no. 2003170000, additionally with optional cable drum (25 m) art-no. 2903170240, comprising additional weight, ring screw, hook wrench and soft case for cable drum

FERROUS LOCATOR VX1 "BOREHOLE"

Art-no. 2003170003

Scope of delivery:

Cable drum with integrated power supply and mechanical link to control unit, control unit, probe VSM, transport container VSM, accessories, operation manual

Available options:

- Cable drum cplt. VX1 (25 m), art-no. 2903170240
- Cable drum cplt. VX1 SEPOS (15 m / 12 m SEPOS)
- SEPOS® -detector borehole / land
- 4x 1.2 V rechargeable batteries type D
- Charger for rechargeable batteries
- External power supply

Technical data

Measuring range:

9 (2-20.000 nT)

Signal input:

SEPOS® positioning system

Power supply: 4 x 1.5 V single cell batteries type D
or 4 x 1.2 V rechargeable batteries type D
or external power supply 6 Volt

Weight operational detector:

approx. 3.6 kg (incl. batteries)

Distance of sensors: 500 mm

Transport weight with case

(Art-no. 2003170000): approx. 9.3 kg (incl. backpack)

Diameter of probe tube: 32 mm

Dimensions case:

84 x 30 x 17 cm

Battery life:

approx. 100 h with Alkaline batteries (without Bluetooth®)
approx. 80 h with Alkaline batteries (with Bluetooth®)

All technical data are subject to change without prior notice.

Operation temp.:-31° C to +63° C

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Signal outputs:

- digital output RS232 or USB for online data acquisition with Vallon data loggers via cable or Bluetooth® technology
- headset

Protected by patents: US 9,041,401 B2 and US 9,021,661 B2

Protected by design patents: US D726,128 S and US D712,945 S

Issue 09/2016



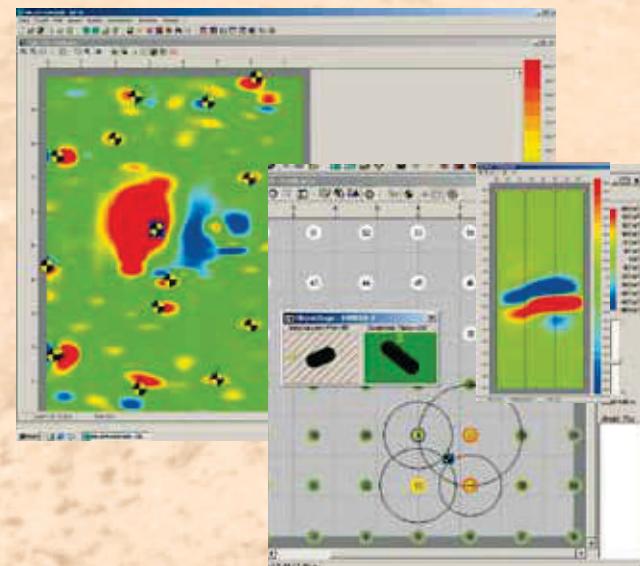
The all-digital probe VSM is compatible with current Vallon multisensor systems. Thus, depending on the detection requirement, the probe, as centrepiece of the detector, can also be used in combination with other probes. The Vallon VXV4 represents such a system, combining 4 probes. The Vallon control unit VCU2 or the VX1 control unit serve as data

In connection with the Vallon field computer VFC2 the all-rounder becomes a fast data collector due to its digital interfaces.

In the basic version, the constant speed of the user during data recording is the precondition for a good positioning of the probe.

This can be optimised by using the optional Vallon SEPOS®-system. SEPOS® allows the VX1 the verification of the position of the probe at short intervals along search tracks or boreholes. Hence, there is no problem with any changes of speed during data recording.

Surface detection is even more comfortable with an optional GPS system. The field computer VFC2 is already prepared for this and can easily be connected with the GPS via Bluetooth®.



interface. The data of the probes are transferred via cable or Bluetooth® to a Vallon field computer VFC2 or a PC with Vallon EVA 2000 software.

Surface as well as borehole data is evaluated via PC with Vallon EVA 2000 software.

The Vallon VX1 is an extremely rugged differential magnetometer, designed as adjustment-free tension-band probe, for the detection of ferrous objects.

The VX1 combines high detection sensitivity with ease of operation. Tested according to MIL-specs it is suitable for use under all environmental conditions.

By attaching the control unit to the cable drum the handheld VX1 is easily transformed into a very compact set for borehole detection. The cable drum is already equipped with battery compartments. The probe of the VX1, the VSM, is then guided on a rugged borehole cable.





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FLATSCAN15 X S

Portable X-Ray System



R K & Sons, Pune

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ALL DETAILS IN JUST A SINGLE SHOOT !

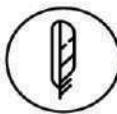
Lightweight, compactness, and straightforward handling are the key factors that led to the design of the **FLATSCAN15 XS**. Developed both with and for EOD operators, the **FLATSCAN15 XS** weighs just 3.5 Kg and is truly compact. Combined with the **CP120B** or **CP160B** X-Ray generators, it is the ideal choice for inspections in narrow places or areas that are difficult to reach.



DEVELOPED BY
EOD TEAMS



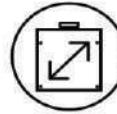
IP 54



ULTRA LIGHT



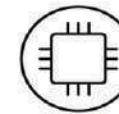
USER-FRIENDLY



15" ACTIVE AREA



RUGGEDIZED



STATE-OF-THE-ART
IMAGE EDITING
SOFTWARE

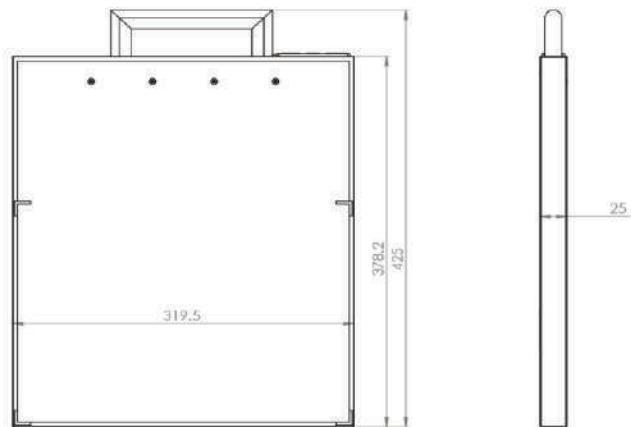


FAST SET-UP

TECHNICAL SPECIFICATION

Features	Unit	FLATSCAN15 XS
Sensor type	-	Linear diode array
Resolution	AWG / lp/mm	40 / 1.25
Pixel size	µm	400
Dynamic range (Grey levels)	bits	16
Active area	mm / in diag.	307 x 230 / 15.1
Maximum penetration	-	
- guaranteed	mm / in of steel	30 / 1.2 (with CP120B)
	mm / in of steel	40 / 1.6 (with CP160B)
- optimized	mm / in of steel	35 / 1.4 (with CP120B)
	mm / in of steel	45 / 1.8 (with CP160B)
Number of covered side	-	3 (left, bottom, right)
Dead zone	mm / in	5 / 0.2 (from bottom) 7 / 0.3 (from side)
External dimensions	mm / in	425 x 320 x 25 / 16.3x15.6x1
Weight	Kg / lbs	3.5 / 7.7
Operating temperature	°C / °F	-10 to +50 / +14 to +122
Storage temperature	°C / °F	-10 to +65 / +14 to +158
Communication protocols	-	Bluetooth / WiFi or cable driven (optional)
Work with	-	CP120B / CP160B X-ray generators
Imaging Station	-	Notebook, toughbook, tablet, toughpad

DRAWINGS



SHERLOCK SECURITY SOFTWARE



ACCESSORIES



TRIPOD



LATERAL FEET



TRANSPORT CASE

Histogram	Materials separation
Pan, Zoon; Distance measurement	Emboss
Reverse black & white	Stitching
Pseudo color	Image saving / recording
Deep focus	Image sharing
Low battery alarm	Image tilting and rotation
X-ray source parameters adjustable	Antivirus software

SAFETY WARNINGS. The Goods can cause death, personal injury or property damage if they are used, operated, maintained, stored or disposed of improperly. In particular, the Goods may emit x-ray radiation, so adequate safety precautions must be taken to minimize exposure. At a minimum, Buyer should adhere to the ALARA (as low as reasonably achievable) principle and should comply with all applicable regulations relating to protection against x-ray emissions.

All specifications are non contractual and subject to change without prior notice.

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FLATSCAN 30 XS

Portable X-Ray System



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TactXL

Ultra Portable X-Ray System



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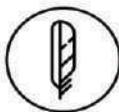
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ALL DETAILS IN JUST A SINGLE SHOOT !

Lightweight, compactness, straightforward handling and high resolution image definition are the key factors that led to the design of the **TactXL** package. Developed both with and for EOD operators, the **TactXL** x-ray detector weighs just 4.3 Kg and is truly compact. Combined with Teledyne ICM **CPBattery** X-Ray generators (**CP120B**, **CP160B** or **LiteX**), it is the ideal choice for inspections in narrow places or areas that are difficult to reach.

DEVELOPED WITH
EOD TEAMS

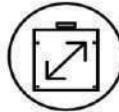
IP 67



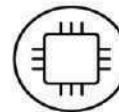
ULTRA LIGHT



USER-FRIENDLY

43x35 ACTIVE
AREA

0.5M DROP TEST

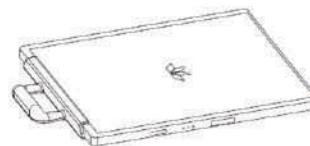
STATE-OF-
THE-ART
IMAGE EDITING
SOFTWARE

FAST SET-UP

TECHNICAL SPECIFICATION

Features	Unit	TACTXL
Sensor type	-	aSi
Resolution	lp/mm	3.24
Pixel size	µm	154
Dynamic range (Grey levels)	bits	16
Active area	mm / in diag.	434 x 355 / 17 x 14
Maximum penetration	mm / in of steel	35 / 1.3 (with CP120B)
	mm / in of steel	45 / 1.7 (with CP160B)
Number of covered side	-	3 (left, bottom, right)
Dead zone	mm / in	4.6 / 0.15 (from bottom) 15 / 0.59 (from side)
External dimensions	mm / in	454 x 387 x 18.65 / 17.87 x 15.24 x 0.7
Weight	Kg / lbs	~4.3 / 8.1
Operating temperature	°C / °F	-20 to +50 / -4 to +122
Storage temperature	°C / °F	-20 to +65 / -4 to +149
Communication protocols	-	Bluetooth/Wifi or cable driven (optional)
Work with	-	CP120B / CP160B / LiteX X-ray generators
Imaging Station	-	Notebook, toughbook, tablet, toughpad

DRAWINGS



ACCESSORIES



TRIPOD

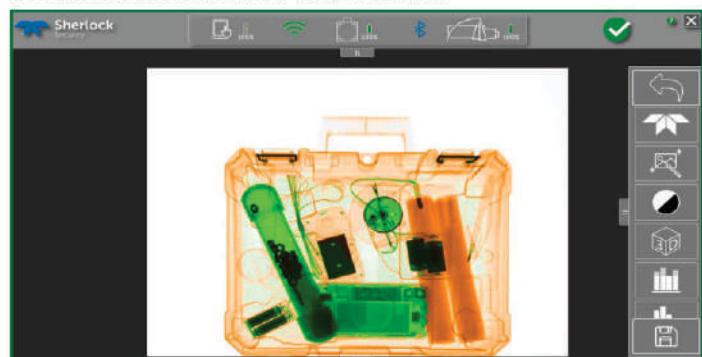


LATERAL FEET



TRANSPORT CASE

SHERLOCK SECURITY SOFTWARE



Histogram	Materials separation
Pan, Zoon; Distance measurement	Emboss
Reverse black & white	Stitching
Pseudo color	Image saving / recording
Deep focus	Image sharing
Low battery alarm	Image tilting and rotation
X-ray source parameters adjustable	Antivirus software

SAFETY WARNINGS. The Goods can cause death, personal injury or property damage if they are used, operated, maintained, stored or disposed of improperly. In particular, the Goods may emit x-ray radiation, so adequate safety precautions must be taken to minimize exposure. At a minimum, Buyer should adhere to the ALARA (as low as reasonably achievable) principle and should comply with all applicable regulations relating to protection against x-ray emissions.

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CPBATTERY CP120B

Battery Powered X-Ray Generator



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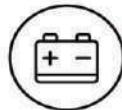
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COMPACT, LIGHT, EFFICIENT!

This ultra-light, compact and battery operated constant potential portable X-Ray generator is the perfect tool for specific NDT applications that require repetitive short exposures. Its versatility also makes it the ideal piece of equipment for security applications. In fact, in combination with the FLATSCAN15 XS, the FLATSCAN30 XS and other digital X-Ray detectors, the CP120B will – thanks to its small focal spot and constant potential X-Ray output – enhance image quality and definitely contribute to a reduced exposure time.



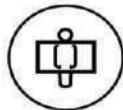
LIGHT-WEIGHT



BATTERY OPERATED



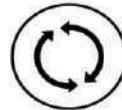
SMALL FOCAL SPOT



DR-READY



UP TO 120 KV

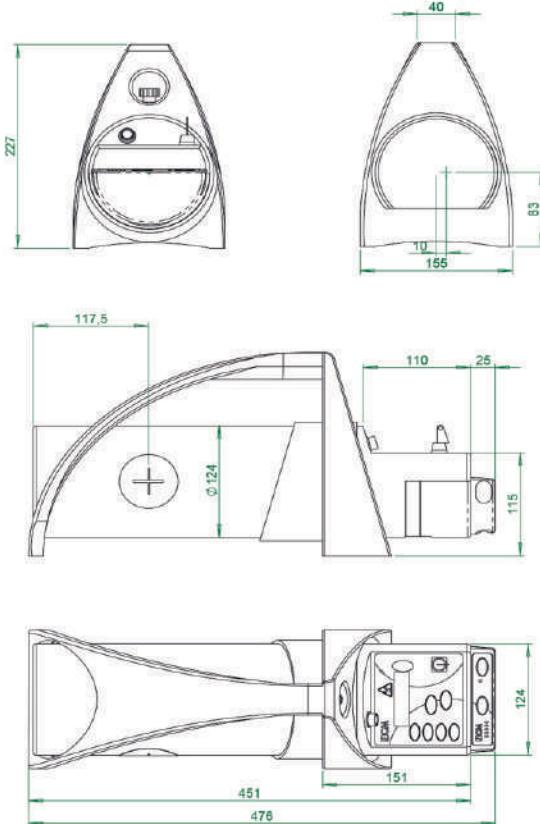


ROTATING TANK

TECHNICAL SPECIFICATION

Features	Unit	CP120B
Radiation geometry	-	Directional
Output voltage range	kV	40 to 120
Tube current range RO	mA	0.1 to 1.0
Tube current at full output	mA	1
Maximum power at the anode	W	120
Constant potential beam	-	Yes
Maximum penetration	mm	35 (optimal conditions)
Weight	Kg	7.5
Overall dimensions	mm	ø 124 x 440
Leakage dose at 1m at full output	mSv/h	< 2.0
Optical focal spot according to EN12543	mm	08 x 0.5
Maximum useful angle	°	50 x 50
Inherent filtration	mm	Equiv. 3.5 (Al)
Waterproof level	-	IP54
Operating temperature	°C	-25 to +50
Storage temperature	°C	-40 to +80
Maximum exposure time	minutes	15
Low battery level indicator	-	Built in
ROV compatibility	-	Comp. with major brands

DRAWINGS



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CPBATTERY CP160B

Battery Powered X-Ray Generator



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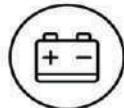
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COMPACT, LIGHT, EFFICIENT!

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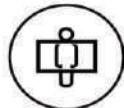
LIGHT-WEIGHT



BATTERY OPERATED



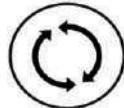
SMALL FOCAL SPOT



DR-READY



UP TO 160 KV

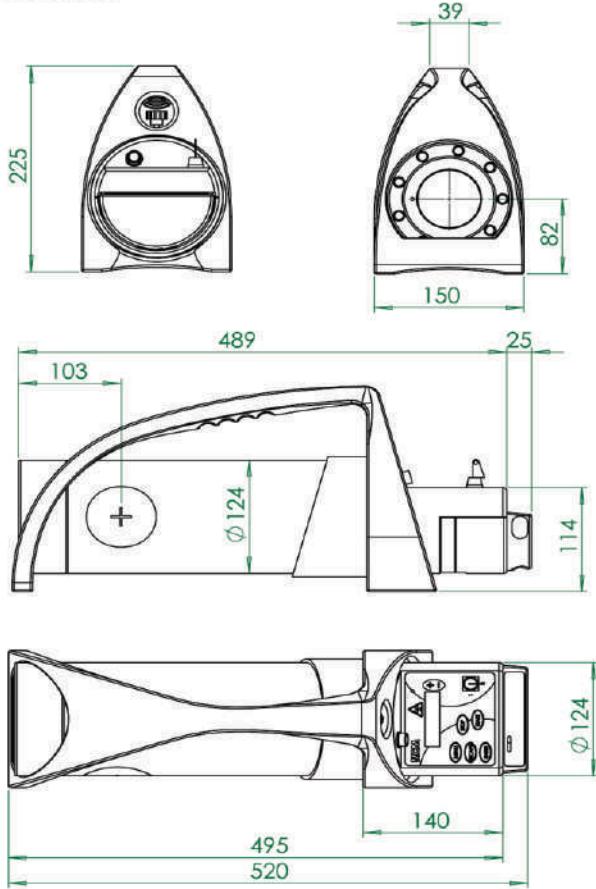


ROTATING TANK

TECHNICAL SPECIFICATION

Features	Unit	CP160B
Radiation geometry	-	Directional
Output voltage range	kV	40 to 160
Tube current range RO	mA	0.1 to 0.5
Tube current at full output	mA	0.5
Maximum power at the anode	W	80
Constant potential beam	-	Yes
Maximum penetration:	mm	45 (optimal conditions)
Weight	Kg	9.2
Overall dimensions	mm	Ø 124 x 490
Leakage dose at 1m at full output	mSv/h	< 2.0
Optical focal spot according to EN12543	mm	08 x 0.7
Maximum useful angle	°	60 x 60
Inherent filtration	mm	Equiv. 3.5 (Al)
Waterproof level	-	IP54
Operating temperature	°C	-25 to +50
Storage temperature	°C	-40 to +80
Maximum exposure time	minutes	15
Low battery level indicator	-	Built in
ROV compatibility	-	Comp. with major brands

DRAWINGS



SAFETY WARNINGS. The Goods can cause death, personal injury or property damage if they are used, operated, maintained, stored or disposed of improperly. In particular, the Goods may emit x-ray radiation, so adequate safety precautions must be taken to minimize exposure. At a minimum, Buyer should adhere to the ALARA (as low as reasonably achievable) principle and should comply with all applicable regulations relating to protection against x-ray emissions.

All specifications are non contractual and subject to change without prior notice.

TELEDYNE ICM

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+32 (0)87 44 01 50 / icm.sales@teledyne.com



TELEDYNE ICM
Everywhereyoulook™

Part of the Teledyne Imaging Group



THE ULTIMATE X-RAY SOLUTION



R K & Sons
serving for a better tomorrow



TactX

Ultra Portable X-Ray System



R K & Sons, Pune

Website : www.rksons.in / Email : info@rksons.in

Mob: +91 9823052889 / +91 9823005458



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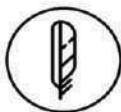
Part of the Teledyne Imaging Group

ALL DETAILS IN JUST A SINGLE SHOOT !

Lightweight, compactness, straightforward handling and high resolution image definition are the key factors that led to the design of the **TactX** package. Developed both with and for EOD operators, the **TactX** x-ray detector weighs just 2.6 Kg and is truly compact. Combined with Teledyne ICM **CPBattery** X-Ray generators (**CP120B**, **CP160B** or **LiteX**), it is the ideal choice for inspections in narrow places or areas that are difficult to reach.

DEVELOPED WITH
EOD TEAMS

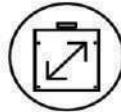
IP 67



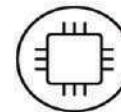
ULTRA LIGHT



USER-FRIENDLY

30X25 ACTIVE
AREA

1M DROP TEST

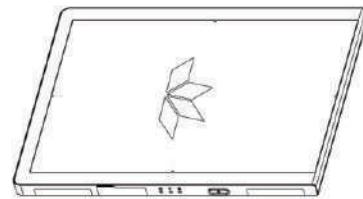
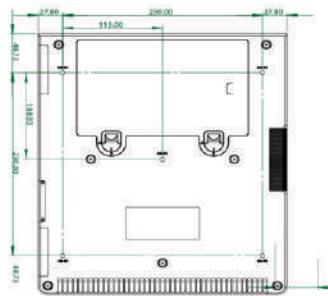
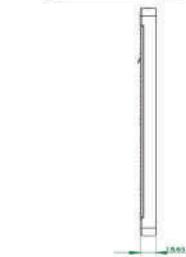
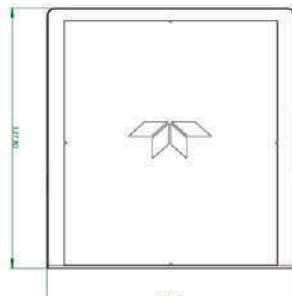
STATE-OF-
THE-ART
IMAGE EDITING
SOFTWARE

FAST SET-UP

TECHNICAL SPECIFICATION

Features	Unit	TACTX
Sensor type	-	aSi
Resolution	lp/mm	4.16
Pixel size	µm	120
Dynamic range (Grey levels)	bits	16
Active area	mm / in diag.	246 x 307 / 10 x 12
Maximum penetration	mm / in of steel	35 / 1.3 (with CP120B)
	mm / in of steel	45 / 1.7 (with CP160B)
Number of covered side	-	3 (left, bottom, right)
Dead zone	mm / in	4.6 / 0.15 (from bottom). 15 / 0.59 (from side)
External dimensions	mm / in	327.3 x 285.6 x 18.65 / 12.87 x 11.51 x 0.7
Weight	Kg / lbs	-2.9 / 6.39
Operating temperature	°C / °F	-20 to +50 / -4 to +122
Storage temperature	°C / °F	-20 to +65 / -4 to +149
Communication protocols	-	Bluetooth/Wifi or cable driven (optional)
Work with	-	CP120B / CP160B / LiteX X-ray generators
Imaging Station	-	Notebook, toughbook, tablet, toughpad

DRAWINGS



SHERLOCK SECURITY SOFTWARE



Histogram	Materials separation
Pan, Zoon; Distance measurement	Emboss
Reverse black & white	Stitching
Pseudo color	Image saving / recording
Deep focus	Image sharing
Low battery alarm	Image tilting and rotation
X-ray source parameters adjustable	Antivirus software

ACCESSORIES



TRIPOD



LATERAL FEET



TRANSPORT CASE

SAFETY WARNINGS. The Goods can cause death, personal injury or property damage if they are used, operated, maintained, stored or disposed of improperly. In particular, the Goods may emit x-ray radiation, so adequate safety precautions must be taken to minimize exposure. At a minimum, Buyer should adhere to the ALARA (as low as reasonably achievable) principle and should comply with all applicable regulations relating to protection against x-ray emissions.

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intespring
EXOSKELETONS





Current Prototype offers

CENTAUR REDUCES THE WEIGHT PROBLEM

The Centaur v2 LARA that will be for sale to selected partners from 2023 is a tool that has been designed to support soldiers in specific situations. It is a load carrying leg exoskeleton designed for carrying heavy and awkward burdens. Its driving components are spring damper systems both fully passive and electrically controlled in their parameters to adapt to the wearers gait pattern.

// Lever wearers own force forward into much larger force upwards.

// Save discomfort from torso and contraction.

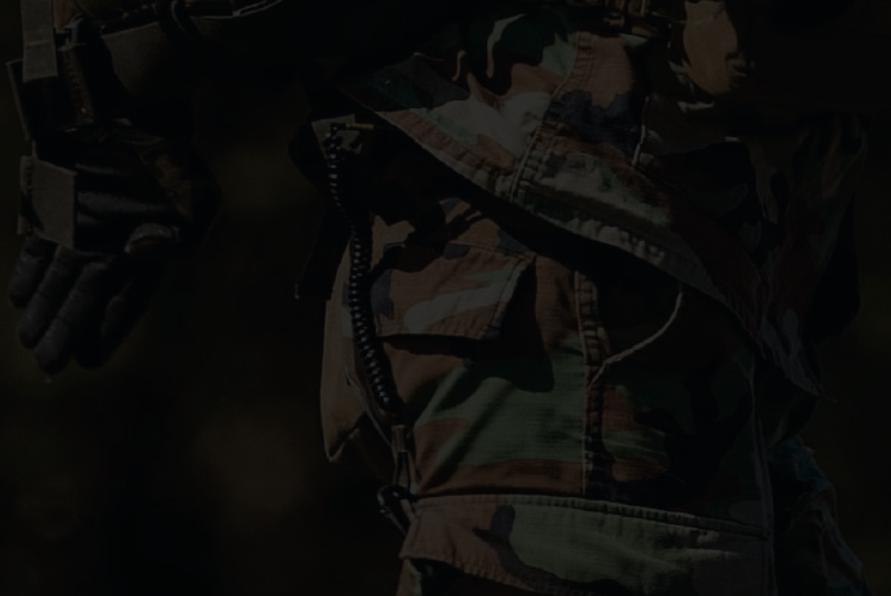
// Weights 8kgs.

// 40hours run time on 1kg battery.

// Can reduce 60kgs load by 80% to 12kgs.

// Quick release from 3 locations. One at each boot interface and one at backpack. This assures quick donning and doffing under difficult circumstances.

SUPPORT GENERATED BY OWN MOTION



THE CENTAUR CAN BOOST PERFORMANCE

The Centaur v1 KEVIN used for *trials* at this stage is an early prototype. It is designed for modularity and sensoring. Within the Netherlands it has been tested with several marines and airborne troopers.

What to expect of the Centaur v1 KEVIN

// SUPPORT. The Centaur can generate up to 100% on a 60kg load. In practice a maximum of 80% support is chosen

// BODY POWERED. The Centaur is the most lightweight and smallest exoskeleton in the world that can support large loads. This is possible, because the energy that is necessary to create an upward force is generated by the forward motion of the soldier. This will come at the cost of a slight increase of oxygen consumption 5%-10%, dependend on the amount of support.

// STRAIN REDUCTION. Operators will experience significantly less strain and pain in shoulders, hips and knees.

// INSIGHT. How do our soldiers respond to exoskeletons? Trials with the Centaur give important insight. If your MOD is considering the use of exoskeletons, than this would be an important first step to get acquainted with the chances and risks on the chances and risks when integrating exoskeletons into defence operations.

CENTAUR IS NOT A MIRACLE SUIT

The current CENTAUR has its limits. It is important to take these into account when setting-up trials and testing protocols.

What not to expect of the Centaur v1 KEVIN

// <4 HOURS Use for less than 4 hours is not recommended, as the Centaur is really only intended for long use, because than the impact on the musculoskeletal system becomes significant.

// <40 KG Use with carrying less than 40kgs is not recommended. Any exoskeleton will still be of hindrance to the wearer. Only when the carried loads exceed a threshold of physical pain and damage, will using the Centaur be of tactical advantage.

// >60 KG Likewise, use with carrying more than 60kgs is not recommended for this prototype. Maximum support beyond this load will not be available, reducing the efficiency of the device.

// TRAINING Real benefits from the Centaur only become evident after a thorough training period. Though still a matter of research within the Dutch military estimates are a 16 hour training is necessary to gain maximum effect.

// INCLINE Centaur will not work on inclines steeper than 10%. From 0% to 10% there is reduced functionality. On declines functionality will increase.

THE CENTAUR IS USED FOR TRIALS

The Centaur v1 KEVIN used for *trials* at this stage is an early prototype. It is designed for modularity and sensoring. Take extra care when opting for trials rather than purchasing evaluation prototypes:

// **WEIGHT.** Has not been optimized yet at 12kg,

// **POWER.** Has not been optimized yet. Current batteries will last 16-20hours, depending on support settings.

// **CABLES.** Are still surface bare, making them easy for us to change components and repair, but also making them susceptible for snagging in shrubbery and damaging during transport.

// **WEATHER.** Though the v1 prototypes are resistant to light splashing, they are in no way certified waterproof and should not be used in adverse weather conditions.

// **CONNECTORS.** The quick connecting mechanisms on boots and backpack are still under development. The v1 trial Centaur has bolted connections at all three interfaces. This means it will require tools and a special mount to be deployed.

// **DECLINE** Centaur should have improved functionality in declined slopes, but this function has not been added to the protocol. With v1 KEVIN prototypes declines steeper than 10% are not advised.

IMPORTANT NOTES BEFORE PURCHASING

The development of the Centaur has been commissioned by the Dutch Ministry of Defence. Although InteSpring owns all IP and Patent rights. It is imperative that attention be paid to the following details:

// **EXPORT RIGHTS.** The Centaur is classed as strategic military goods, meaning that any exports to outside the NATO will have to be approved by the CDU1 in the Hague in the Netherlands. Furthermore, as part of a National Technology Project the Dutch Ministry of Defence will also have to extend explicit permission for the technology to be used on foreign soil.

// **BOOTS.** Currently the Centaur is only configured to work with the Meindl Island MFS Active GTX. These have to be adapted to suit the Centaur and one pair is included in the purchase price. Extra boots in extra sizes can be purchased at a price of €1.500,- per pair. Other boot types can be adapted to couple with the Centaur if they are at least class C upon request. Note that these boots are also experimental, and no predictions can be made on their longevity or performance.

// **PACKS.** Currently the Centaur is only configured to work with the Tatonka Lastenkraxe V2. Upon request other backpacks and load carrying frames can be adapted to couple with the Centaur, if they have a sufficiently ridged structure along the back.



For further questions, please
contact:

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R K & Sons, Pune
email : info@rksons.in
Website : www.rksons.in
Mob: +91 9823052889 / +91 9823005458

ZEUS Robot

CIED and EOD ROBOT MODULARITY

THE 3 BENEFITS OF MODULARITY



1- Configure To Mission

With today's new threats, you need to transform into a lighter, faster responding unit. The Zeus CIED and EOD robot has been designed for the EOD/IED/CBRNe and SWAT community to deal with a range of scenarios from simple reconnaissance, CBRNe investigation or to full scale EOD render safe procedures (RSP).

The highly modular design allows Zeus to be configured from a lightweight simple CIED and EOD robot to a fully capable CIED and EOD robot. This ability to configure 'in field' gives maximum capability with minimum equipment.

2 – REPAIR IN FIELD

As well as configuring to the mission, the modular design also allows operators to repair 'in field'. Should part of Zeus be damaged in action, there is no longer any need to send the CIED and EOD robot back to a workshop for repair. Within minutes, almost all of the critical sub sections of Zeus can be removed, and by simply replacing the damaged part via the quick release modular construction, Zeus can be back up and running in minutes.

3 – EASE OF TRANSPORTATION

The 3rd benefit is this ability to break down Zeus into its component modules and be carried in a backpack.

This ease of transportation brings a whole new capability to dismounted teams. The unit can be broken down quickly, carried to the desired location, reassembled and made ready for operation in minutes.

It also allows the unit to be stored more easily within vehicles, utilising multiple small cavities if space is at a premium, instead of one large one. It means that often a dedicated slot for the CIED and EOD robot is not required, and it can be placed under benches or alongside other equipment, meaning you can carry more capability in your vehicles.

Couple this with the lightweight Peli case mounted, or body worn control station, and the ability to configure the CIED and EOD robot to suit certain scenarios, it allows only the essential systems to be carried forward, leaving anything not required behind.

This means Zeus truly is a highly capable but man transportable system.



SURVEILLANCE CAPABILITY



You may need to read text on suspect objects, especially in a CBRNe procedure when identifying for example chemicals. Zeus' camera resolution allows recognition of such items at a safe distance, without risking disturbing the area or object under surveillance.



EXTENDING CAPABILITY



Firing or initiating EOD tools is a crucial task. 100% reliability and safety are prerequisite. You may already have in-service proved, tested and evaluated firing systems but the introduction of a new CIED and EOD robot could bring yet another 'unknown' firing system into your service. This is not the case with Zeus. Zeus takes your existing firing system and simply clips it onto the CIED and EOD robot.

TRANSPORTATION AND DEPLOYMENT

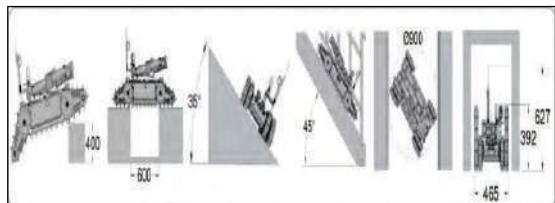


Use the left hand menu bar to select your area of interest, or scroll down to browse the sections in more detail. Each section below will open in a new window, so you can return to this contents page to browse further.

You need to deploy quickly and in small vehicles. You don't want special dedicated vehicles, and from your Incident Control Point (ICP) you want your CIED and EOD robot moving as quickly as possible to the threat area.

Zeus is light and quick to deploy. Within 3 minutes of arriving Zeus is up and running, including mounting any prepared disruptors, and in less than 2 minutes can be at a suspect area that is 100m away. That means in less than 5 minutes from arriving, Zeus is on the target.

TERRAIN CAPABILITY



No area must be inaccessible to your CIED and EOD robot. Zeus is able to tackle a wide range of terrains, both indoors (such as commercial, domestic and public buildings) and outdoors.

Transport links such as buses, trains and aeroplanes present no problems. Stairs and slopes (including lateral) present no problem to Zeus, utilising the front and rear articulating track modules (ATM). Not only do they improve obstacle and stair climbing, but they allow you to descend stairs in a more controlled manner than any other CIED and EOD robot. Many CIED and EOD robots simply drive over the top of stairs until they 'tip' downwards, but Zeus is able to use its articulating track modules to change its centre of gravity giving a controlled decent. Stability on stairs is also crucial if you are carrying live weapons or expensive CBRNE sensors. The ability to change the length of Zeus by extending the articulating track modules makes it incredibly stable when on stairs.

Difficult obstacles such as crossing railway tracks are again easily broached as the articulating track modules can be used to maximum effect adjusting Zeus' the centre of gravity to carefully traverse in full control.

Track throwing, especially in hot weather, when traditional rubber tracks can stretch, is eliminated due to the Aramid reinforced rubber. This makes it almost impossible for the track to expand and jump off the driving sprockets. Different surfaces whether outdoors such as roads, paving, rutted tracks, grass and foliage or indoors such as tiles and carpets present no problems for Zeus. Even water features such as streams are easily dealt with due to Zeus' water proof design.

NIC Carbon Fibre Telescopic Manipulator



The NIC Carbon fibre Robotic Telescopic Manipulator has been developed with leading EOD operators in the British Army. Now manufactured from a fully telescopic carbon fibre pole, the new design is stronger and lighter, and can be adjusted to a much greater degree to increase its operational capability.

Drag Hook Command Wire Finder



The NIC drag hook command wire finder is a purpose made device used to search for buried command wire initiated IEDs. It is used to drag through a range of environments, from long grass, to stones and sand, to riverbeds, and compacted ground and paths. Once found, render safe procedures may be carried out to secure the device.   Command wires are being used increasing more, due to their ease of manufacture and deployment, reliability, and ease of concealment and initiation. Improved ECM systems are also improving the defeat of RF initiated devices. A lightweight, rigid, electrically insulated telescopic pole provides strength and durability.

Hook and Line Systems



NIC Instruments has developed an extensive range of Hook and Line equipment to ensure that the Explosive Ordnance Disposal (EOD) Operator is able to safely, quickly and efficiently conduct semi-remote actions whilst on operations.

Improvised Explosive Device Disposal (IEDD) Operators often find themselves trying to carry out semi-remote tasks using equipment which has not been specifically designed for that purpose, leading to the task failing, and the Operator having to make additional unnecessary manual approaches.



BRADDICK
SNIPER DIVISION

BRADDICK Mk. XII SFS .50 RIFLE



Standard Weapon Physical:

Empty Weight:	11500g
Max. Length:	1360mm
Zero Scope Height:	240mm
Width:	114mm
Coating:	End-User Specified

Performance:

Mechanical Static Accuracy: Sub 0.2MOA in Controlled Laboratory Conditions – Proof Supplied with Weapon.

Standard Accessories: Advanced Attachment Accessories:

2 Magazines	Braddick Sniping Thermal
Suppressor	Hensoldt IRV900 Sniping Thermal
Muzzle Break	Hensoldt NSV1000 Sniping
Baseline Spares	Night Vision / Image Intensifier
Rear-Monopod	
User Specified Bipod	

Optional Accessories:

Two Point or Biathlon Sling
Anti-Mirage Strap

Standard Configuration [Special Bush Warfare]:

Sierra 7 Bipod
Extended Main Tactical Picatinny Rail
[For Thermal & Night Vision Attachments]
Camouflage Cerakoting

Braddick Equipment:

Although Braddick recommends certain equipment, it is at the full discretion of the End-User to specify all equipment on their Braddick Sniping Systems, which Braddick will install and test for the End-User.

Scope: Hensoldt 3.5-26 X 56 FF Scope

Bipods: Sirra 7 // Phoenix Tactical // Atlas

Frame, Barrel & Action:

Barrel:	416R Stainless Steel Treated to 36 Rockwell
Length:	31in//7870mm
Rifling:	6 Grooves, 1 in 15" Twist
Action:	N350 Stainless Steel Treated to 37 Rockwell
Bolt:	3 Locking Lugs
Barrel	is Threaded for Muzzle & Suppressor
Fluting:	Specified by End-User
Chassis & Rails:	Aircraft Grade 7075 Aluminium Alloy – Anodized

Braddick will always further customise and modify our weapons to perfectly meet the requirements of the snipers and End-Users who use our systems.

Office: +27(0) 12 663 2209 // Email: info@braddick.com // Cel: +27 (0) 82 923 0580

WWW.BRADDICKSNIPER.COM // WWW.BRADDICKOPTICS.COM



BRADDICK
SNIPER DIVISION

BRADDICK Mk. XII SFS .338LM RIFLE



Standard Weapon Physical:

Empty Weight:	8400g
Max. Length:	1440mm
Zero Scope Height:	220mm
Width:	98mm
Coating:	End-User Specified

Performance:

Mechanical Static Accuracy: Sub 0.2MOA in Controlled Laboratory Conditions – Proof Supplied with Weapon.

Braddick Equipment:

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Scope: Hensoldt 3.5-26 X 56 FF Scope

Bipods: Sirra 7 // Phoenix Tactical // Atlas

Standard Accessories: **Advanced Attachment Accessories:**

2 Magazines	Braddick Sniping Thermal
Suppressor	Hensoldt IRV900 Sniping Thermal
Muzzle Break	Hensoldt NSV1000 Sniping
Baseline Spares	Night Vision / Image Intensifier
Rear-Monopod	
User Specified Bipod	

Optional Accessories:

- Two Point or Biathlon Sling
- Anti-Mirage Strap

Standard Configuration [Special Bush Warfare]:

- Sierra 7 Bipod
- Extended Main Tactical Picatinny Rail
[For Thermal & Night Vision Attachments]
- Camouflage Cerakoting

Frame, Barrel & Action:

Barrel:	416R Stainless Steel Treated to 36 Rockwell
Length:	30in//7620mm
Rifling:	6 Grooves, 1 in 9" Twist
Action:	N350 Stainless Steel Treated to 37 Rockwell
Bolt:	3 Locking Lugs
Barrel	is Threaded for Muzzle & Suppressor
Fluting:	Specified by End-User
Chassis & Rails:	Aircraft Grade 7075 Aluminium Alloy – Anodized

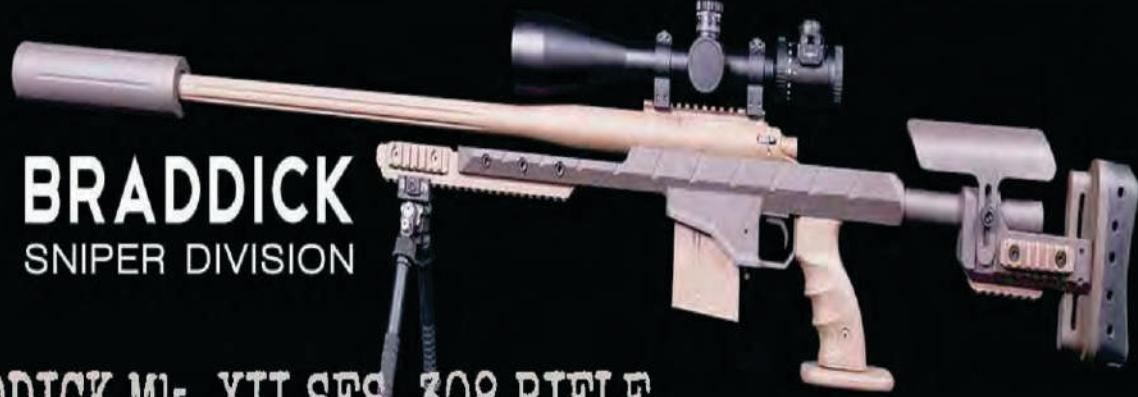
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BRADDICK
SNIPER DIVISION



BRADDICK Mk. XII SFS .308 RIFLE

Standard Weapon Physical:

Empty Weight:	6700g
Max. Length:	1200mm
Zero Scope Height:	200mm
Width:	80mm
Coating:	End-User Specified

Performance:

Mechanical Static Accuracy: Sub 0.2MOA in Controlled Laboratory Conditions – Proof Supplied with Weapon.

Standard Accessories:

Advanced Attachment Accessories:	
2 Magazines	Braddick Sniping Thermal
Suppressor	Hensoldt IRV900 Sniping Thermal
Muzzle Break	Hensoldt NSV1000 Sniping
Baseline Spares	Night Vision / Image Intensifier

Optional Accessories:

Two Point or Biathlon Sling
Anti-Mirage Strap

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Sierra 7 Bipod
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Scope: Hensoldt 3.5-26 X 56 FF Scope

Bipods: Sirra 7 // Phoenix Tactical // Atlas

Frame, Barrel & Action:

Barrel:	416R Stainless Steel Treated to 36 Rockwell
Length:	26in//6604mm
Rifling:	6 Grooves, 1 in 12" Twist
Action:	N350 Stainless Steel Treated to 37 Rockwell
Bolt:	2 Locking Lugs
Fluting:	Specified by End-User
Chassis & Rails:	Aircraft Grade 7075 Aluminium Alloy – Anodized

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OUR CLIENTS



LIVE BLAST TESTING OF BOMB SUIT



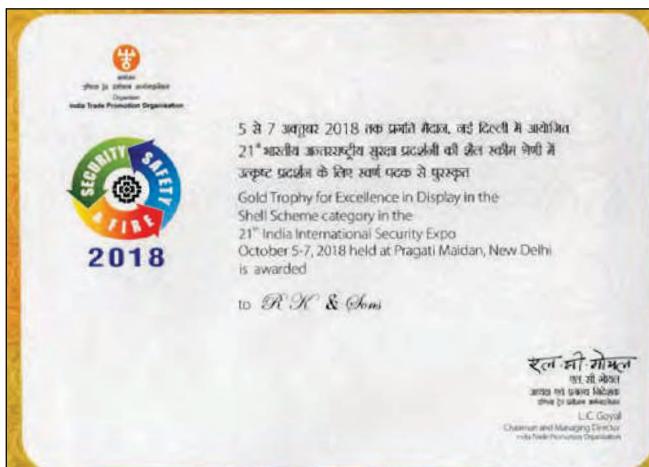
LIVE BLAST TESTING OF BOMB SUIT



TRAINING OF DUAL TECHNOLOGY METAL DETECTOR



PROUD ACHIEVEMENTS DURING YEAR 2018-19



Our Founder Mr. Mukesh Sharma Receiving A Gold Trophy For The Best Display At Pragati Maidan, New Delhi



OUR DISPLAY AT INTERSEC 2019 HELD AT THE DUBAI WORLD TRADE CENTRE





zeman
boots



intespring
EXOSKELETONS

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