

# 3DX-RAY

## 3DX (UPRATED) EOD BOMB DISPOSAL SUIT



The 3DX (Uprated) EOD Bomb Disposal Suit is a contemporary, up-armoured, second-generation version of the standard bomb disposal suit which has been in use for many years in dozens of countries worldwide. The suit provides one of the highest levels of protection of any bomb suit currently manufactured, whilst at the same time offering maximum comfort and flexibility to the operator.

Available in any size, the 3DX (Uprated) EOD Bomb Disposal Suit ballistic levels and materials used in the various components of the suit have been tested and evaluated to the internationally recognised Standard NATO (North Atlantic Treaty Organisation) Agreement (STANAG) 2920 by which all ballistic apparel is judged today.

All the ballistic inserts used in the 3DX (Uprated) EOD Bomb Disposal Suit are made of waterproof-treated Kevlar HT which are enclosed in a special water-resistant and anti-ultraviolet membrane. The outer cover is supplied in flame retarding, anti-cut, Nomex III. In hot and humid countries, the 3DX (Uprated) EOD Bomb Disposal Suit can be supplied in conjunction with a Cooling Suit which incorporates a very powerful cooling pump.



### The complete suit comprises:

- Helmet with Visor, Air Cooling Fan & Integral Radio Earpiece and Microphone with ambient sound facility
- Neck Protector Plate
- Chest Protector Plate
- Groin Protector Plate
- Jacket with attached Collar
- Molle Strips
- Integrated Spine Protector
- Integrated Groin Protector (360°)
- Trousers
- Flexible Knee System
- Protective Boot System
- Carrying Bag

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## ARMoured EOD HELMET

The EOD helmet is made of a GRP skin with an elastomeric aramid core and is fully adjustable to various sizes for perfect fit by means of the three-point suspension and the removable spacer pads that Velcro to the inside. The facility for a communication set consisting of a headphone and microphone, plus extension lead for attachment to any VHF radio transceiver, is incorporated as standard. An alternative communications system comprising a headset, microphone, 100 metres of cable and speaker/amplifier, for communication between the operator and his controller, can also be supplied.

The helmet incorporates an air ventilation system, the inlet for which is specially designed to accept a directly attached NBC filter canister (or other orthodox dust filter canister) as part of the suit's compatibility capability for operations in a Chemical, Biological, Radiological, Nuclear environment (CBRNe) when it can be worn with separately sourced Chemical Protective Underwear (CPU).

The ventilation system delivers the highest known volume of forced fresh air (up to 200 litres per minute) and directs its flow over the top of the helmet liner, across the visor and down over the operator's face ensuring efficient demisting and a clear view.

The addition of an anti-blast throat-guard below the helmet chin-piece closes any possible frontal gap between helmet and collar.

## JACKET

The jacket is a long-sleeved, side-opening design filled with flexible Kevlar armour. Provision is made on the front for the attachment of rigid throat, chest and groin blast plates by means of an integral pocket with webbing and Velcro securing straps. Pouches for working tools, blower and radio are attached to the front and back of the outer cover. The high collar provides overlap protection to the helmet, visor and throat-guard. Immediate removal of the jacket is achieved by use of the quick-release straps attached to the side and shoulder.

## REMOTE CONTROLLER

This is mounted on the front of the smock. It is designed to be simple and easy to use. The remote controller requires no visual referral, the operator simply memorising the position of the three controls and locating and manipulating them by touch.

## TROUSERS

The trousers have fully adjustable supporting braces and wide Velcro waistband catering for small, medium and large torsos within the different size ranges. Affixed to the front of the trousers is a flexible groin protector retained in position by Velcro and elastic. At the rear of the trousers an 'easy pull' heavy duty zip is used to fix the articulated flexible armour into position and is incorporated into a quick release Velcro system. The 3DX (Upated) EOD Bomb Disposal Suit incorporates a foot protection system, providing additional protection to the front and sides of the foot.

## COMMUNICATIONS

The remote controller has an external plug into which an optional hardwire communications system can be plugged. This hard-wired communication system option consists of 100m of wire supplied on a heavy-duty reel connecting to a base station from which full duplex communications can be maintained with the operator. Alternatively, a VHF or UHF radio transceiver, for which a pocket is provided on the right-hand sleeve, can be plugged into the remote controller via an optional patch cord. If the radio system has a "vox" facility, the remote controller can be modified to ensure the helmet electronics are compatible.

## SPECIFICATIONS

Compliance Standard:	STANAG NATO 2920 @ V0/V50 17gr FSP
Weight of suit:	34.3kg with blast plates 26.9kg without blast plates
Inserts:	Du-Pont Kevlar 129HT multi-layer
Power Pack:	12v DC auxiliary output socket to power optional accessories such as helmet - mounted video camera or torch. Mains AC and 12v DC provides 90% recharge within 15 minutes.



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## MATERIALS

### Helmet

- Moulded Helmet:** GRP skin with elastomeric aramid core and inner lining
- Helmet Visor:** Anti-Ballistic hardened acrylic/polycarbonate laminate
- Suspension Harness:** Webbing & Ballistic Nylon
- Weight of Helmet:** 5.2kg including visor
- Helmet Communicator:** Compatible with any communications system - radio or hard-wired
- Air Blower:** 200 litres per minute minimum, 3 speed

### Jacket & Trousers

- Outer Cover:** Fire-retardant Nomex III
- Ballistic Inserts:** Multi-layer water-repellent Kevlar 129 HT stitched for an enhanced protection level
- Groin Protector:** 360° ballistic and flame protection
- Colour:** Navy Blue or Military Green
- Blast Plates:** Proprietary up-rated armoured steel & composite system with closed cell, linear foam

STANAG 2920 Test Results - 3DX (UPRATED) EOD Bomb Disposal Suit	
Soft Armour Components	V50 m/s
Throat Protector - Beard	450
Collar Front	600
Collar Centre	600
Collar Back	450
Smock Front	600
Smock Back	450
Arms Front	600
Arms Back	450
Hand Covers	450
Boot Covers	450
Groin Protector	450
Trousers & Thigh Guard Front	680
Trousers & Shin Guard Front	700
Trousers Back	450
Hard Armour Components	V0 or V50 m/s
Helmet (V50)	600
Visor (V50)	800
Throat Plate with soft armour collar (V50)	875
Chest &/or Groin Blast Plates (V0)	1800

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