



# BIG BROTHER

## EOD SUIT AND HELMET





# MISSION-READY. FIELD-PROVEN.

The BIG BROTHER EOD Suit has been developed for mission effectiveness, with a design focused on first hand user experience and proven manufacturing materials ensuring the highest ballistic levels, the BIG BROTHER is the futuristic bomb suit developed for today.

In service throughout the world and backed by Bomb Disposal Technicians given its proven track record, ease of use and significant weight to protection ratio our suit is mobile, tactical and reliable.

The custom design and development of our suit complies with international standards being the NIJ01017-00, STANDAG 2920 and MIL-SPEC 662F.

The ballistic levels, V50 s and the materials used in various components of the BIG BROTHER Bomb Disposal Suit are tested and evaluated to the full, quality assurance standards laid down by the appropriate Government organizations.



# BEST IN CLASS WEIGHT TO PROTECTION RATIO.

## BIG BROTHER EOD SUIT CONSISTS OF THE FOLLOWING PARTS:

1. Protective Jacket/ Smock with attached collar
2. Protective Trousers – adjustable zip closures
3. Protective hand and feet covers
4. Shorts / Groin Protector
5. Throat Plate
6. Breast plate
7. Groin plate
8. Helmet and Visor
9. Air cooling blower
10. Cooling suit / Hydration Pack
11. Spine Protector
12. Complete communication System – wired and wireless
13. Aluminium helmet and communication transit case
14. Suit Transit bags
15. Integrated radio earphones, Light ambient sound speaker microphone in helmet





## BALLISTIC EOD HELMET

The EOD helmet is fully adjustable to accommodate various sizes.

Incorporated in the helmet is the communication system set consisting of two headphones with one microphone and ambient sound speaker. Connected to the suit control unit via quick release cable also incorporated in the helmet is an Air Ventilation system, which directs the flow, forcing fresh air over the top of the helmet liner, across the visor and down over the operator's face ensuring efficient demisting and clear view. Motion sensor Light is attached to the top of the helmet.

### Optional Extras

- The system can accommodate a respirator and CBRM filter
- Ballistic steel visor
- Video camera for recording and real-time viewing – wired or wireless



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## JACKET

The jacket is a long sleeved, side opening design. Provision is made on the front for the attachment of rigid chest and groin blast plates by means of Quick release buckles, webbing and securing Velcro straps.

Pouches for working tools, Hand held radio, back up batteries, helmet control unit and remote control unit are attached to the front and back of the outer cover.

The high collar provides overlap protection to the helmet and visor. Immediate removal of the jacket is achieved by use of the quick-release straps attached to the side and shoulder. Removal complies with the NIJ specifications, removal in in under 30 seconds. Hand covers are attached to the end of the sleeve.



## TROUSERS

The trousers have fully adjustable supporting braces and wide Velcro waistband catering for small, medium and large sizes. Trousers are adjustable by means of quick release Zips. At the rear of the legs a full-length Velcro strip is used in conjunction with the retaining straps to fix the articulated flexible armour in position.

The over boots are an integral part of the trousers and are held in position by Velcro, and webbing straps, attached to the bottom of the trousers.

### Up Armour Blast Plates

These Plates offer additional protection to the throat, chest and groin – vital areas. Supplied in a separate clip on carrier split into 3 independent sections. Attached to the front of the jacket / smock

### Independent groin Protector

The IG P is attached to rear of the trousers and then drawn between the legs of the operator then attached to the front

### Cooling Suit and hydration pack

This Suit consists of,

- Liquid cooling suit made from flame retardant soft stretch mesh
- Back pack circulation system, 3l bladder, Hydration Pipe for operator
- Water pump, on and off switch
- 7.4volt battery 2200 mAh
- Battery charger 110-220 v





## BIG BROTHER communication system

Consists of a wireless or wired system. Suit control unit –this unit controls the helmet functions and operates off rechargeable batteries fitted in either the left or right hand side pouches dependent on operators preference.



## Remote control Unit

This is fitted on either left or right wrist. Powered from suit control unit and controls the helmet functions being ambient sound, volume of sound in the helmet and the fan speed.



## Base station

This unit is connected to the suit control unit by means of a hardwire [100m] This allows communication between the operator and support crew. The unit contains its own power source and DVR for video recording and real-time viewing, the system is rechargeable. Communication can be heard via either the base station unit speaker or attached headphones.



## Wireless communication System

This system operates through the helmet with the use of two way radios, connected to the Suit control unit, – hands free vox system.



## Helmet and communication hard carry Case

This case is made from aluminium and is lined with polyethylene high density foam for the protection of the helmet and communication system.



## Suit Carry Bags

Tough roughed bags made from Cordura 600 d water repellent and uv protected, has both shoulder and hand carry straps for operators convenience.



# MATERIALS USED IN THE BIG BROTHER.

## Helmet

- Moulded GRP skin with elastomeric aramid core.
- Anti – ballistic visor made from hardened acrylic/ polycarbonate laminate.
- Suspension harness – webbing and ballistic nylon.
- Weight – 4.5kg
- V50 [helmet] – 650m/s
- V50 [visor] – 700m/s

## Jacket and trousers

- Ballistic inserts made from multi-layered water-repellent Kevlar 129 HT 1100dtex.
- Outer cover – Nomex
- Colour – Meets client's specification
- Weight – Combined 15kg
- V50 – 650m/s

## Blast plates

- Moulded from woven roving with added fire retardant polymers.
- V50 – 1400m/s
- Outer cover – Nomex flame retardant



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