

BOMBTEC™ DEFENDER

THE MOST UNIVERSALLY VERSATILE ROV AVAILABLE



Printed in Canada 05_JUNE 08_EN Defender V3

DEFEATING THE THREAT™



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DEFENDER ROV

The Defender represents the next generation of large scale ROV. It has been designed specifically to deal with the evolving threat of IEDs while retaining the core capabilities of EOD requirements. The Defender is a strong, robust, versatile and reliable system which integrates with a range of other EOD equipment and accessories to expand its capability.

HAZMAT IDENTIFICATION AND IMPACT PREDICTION

The Defender extends the range of security functions with ultra-sensitive hazardous material identification thanks to its capacity to carry CBR/Hazmat sensors which can detect minute quantities of dangerous substances and thereby remotely determine risks and their extent.

Onboard GPS location equipment which provides compass orientation, is standard. When meteorological sensors are added the ROV can monitor wind speed and direction. When relayed to software on the command console, this information can predict the hazard area on maps or aerial photographs.

Defender is also environmentally sealed and will withstand repeated chem/bio washdown making it a vital tool in CBRNE response operations.

If the hazard prediction software is operated on a laptop networked to the command console, this provides greater concurrent control of the ROV & the incident.



KEY FEATURES OF THE DEFENDER

- Innovative design with titanium construction for low weight to power ratio
- Environmentally sealed
- Repeated Chem-Bio washdown capability
- Hydraulic arm and claw assembly with 2.56m (100") vertical reach
- Independent 6 wheel drive with electro-mechanical brakes on centre axle
- All terrain tyres
- Rotating turret 385°
- Encrypted wireless control
- Ascends / descends stairs up to 45° angle
- 6 cameras including a PTZ colour camera with 360° continuous pan
- Secure firing system with 4+2 terminal layout
- Lifts in excess of 75kg (165lbs)

KEY FEATURES OF THE COMMAND CONSOLE

- Ruggedised touch screen laptop
- Encrypted digital spread spectrum wireless control over 1km line of sight
- Records visual from ROV video and stills
- Two way audio communication
- Robust weatherproof case
- Simultaneous multi-function capability
- Easy to use and highly intuitive
- Distributed architecture electronics



ROV Specification

Width	72.5cm (28.5")
Length	1.52m (60")
Height (stowed position)	1.15m (45")
Weight	275kg (606lbs)
Vertical Reach	2.56m (100") without add-ons
Horizontal Reach	1.65m (65") without add-ons
Maximum Lift	75kg (165lbs)
Speed	3.25 kph (2mph)
	Infinitely variable speed control
Power	2 x 13Ah 12V DC Apollo batteries
Obstacles*	Climbs 20cm (8") stairs at 45° 27° lateral gradient Typical kerbs and obstacles up to 40cm (16")
Cameras	6
Mission Duration	In excess of 5 hours + (quick change battery pack), mission dependent

Standard Defender Stock Number: 3006670

Six Wheeled ROV Platform with Digital Wireless Telemetry
Command Console with Bluetooth Hand Control
Antenna Kit (including Tripod and 4m co-ax)
Field Equipment Kit
Command Cable 150m (500ft)
Spare Wheel (x1)
ROV Battery Chargers 10 A (x2)
Spare ROV Batteries (x2)
Defender Manual Volume 1 User Guide (Operation)
Defender Manual Volume 2 Operational Checks & Maintenance Schedules

Optional Defender accessories

300m (1000ft) Fibre optic cable & reel
Remote RF relay station
X-Ray frame
Sensor integration
Shotgun mount
Extending boom
Window breaker
On-board firing cable
Disruptor mounts: RE70 / 20mm Proparms / UVIED / customised



Item: Fibre Optic Cable

P/N : 3006030



Item: Disruptor Mount

P/N : 3003871



Item: On Board Cable

P/N : 3006039



Item: Telescopic Arm

P/N : 3002948



Item: Shotgun Mount

P/N : 3006028



Item: Sensor Integration

P/N : 3006158



Item: Window Breaker

P/N : 3004035



Item: X-Ray Mount

P/N : 3006113