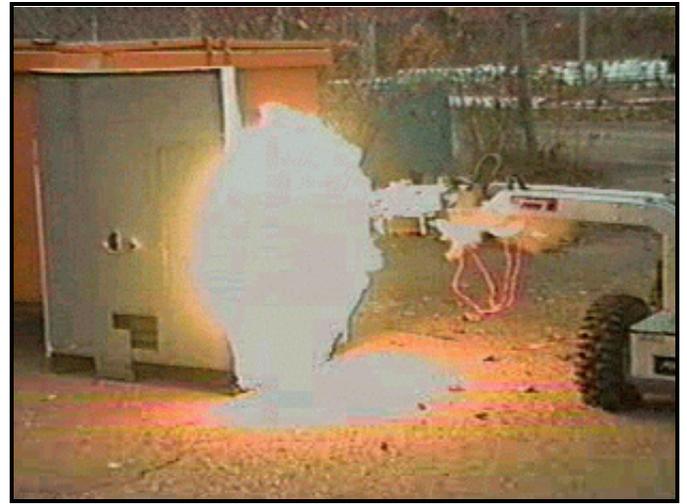
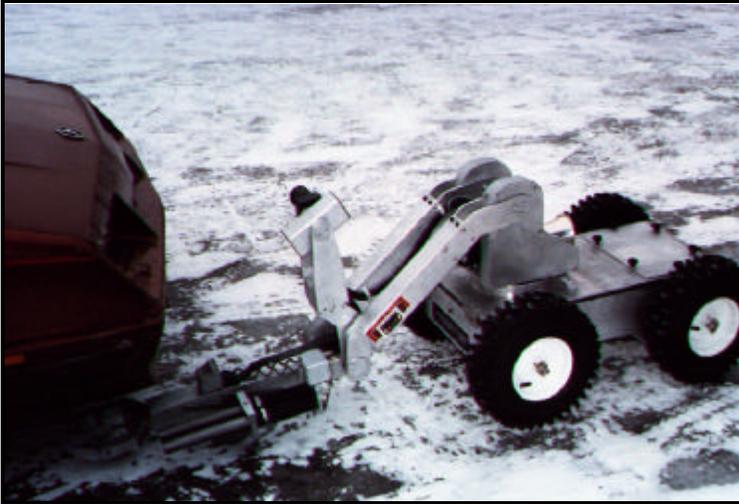




# **PREDATOR**

## **EOD/Tactical Robotic Vehicle**



The Predator robotic Vehicle has been designed to provide rugged, reliable robotic capability to EOD and Tactical teams at a reasonable cost. Capable of operating over virtually any type of terrain in any weather condition, this robotic vehicle provides heavy duty manipulation and weapons deployment capability. The Predator provides exceptional performance through the successful integration of the latest in computer based, command and control technologies, modern design and manufacturing processes and field proven operating systems.

Designed and manufactured by Terra Aerospace to meet the needs of a wide cross section of EOD, Hazmat and tactical teams, the Predator comes equipped with more standard features than any other Robotic vehicle of its type in the world market. Items such as Turret rotation, Manipulator Elbow Axis, Shock reducing disruptor mounts, X-Ray deployment systems are standard equipment, not expensive options that increase the "start-up" cost of the Robot..

The Predator features "State of the Art" modular electronics, and computer based controls, with such operator friendly features as 2 way audio, and multi-positional camera system which allows the operator to position the claw camera at various locations on the vehicle. Command and control of drive, boom and manipulator functions are achieved through the use of proportional speed joysticks for maximum operational simplicity.

### **STANDARD FEATURES**

- |   |  |
|---|--|
| Two Motor high torque drive system                        | X-ray mount and deployment system                              |
| 4 wheel highly mobile platform                            | 300 ft tether command link                                     |
| "Wheels-Free" drive disengagement system                  | Freestanding Tether deployment and retrieval Reel              |
| Highly dextrous elbow type Boom configuration             | Proportional Joystick drive/manipulator control                |
| Turret/Shoulder Rotate and Pitch                          | Portable, rugged Computer Based Operator Control Station       |
| Claw or weapons "prominent" robotic axis                  | 2 way Audio system   |
| Continuous Rotate on claw end effector                    | Modular electronics - Rapid changeout capability               |
| Colour Remote Zoom Pan/Tilt Camera Vision System          | Quick change battery system (Rechargeable includes charger)    |
| Drive and Inspection Hi-Intensity Lights                  | Environmentally Sealed Chassis                                 |
| Multi Positional Colour Manipulator/Weapons Camera        | Polyurethane paint finish                                      |
| Dual shock reducing Disruptor Mounts                      | Operates in adverse weather conditions (-20 to +40 degrees C ) |
| Dual Firing Circuits - Double redundant safety Interlocks |  |

### **OPTIONAL FEATURES**

- |  |                            |
|--|----------------------------|
| 6 Wheel platform                         | Window Piercing attachment |
| Long range Wireless Radio Control system | Tactrack track system      |
| Charge Deployment Reel                   | Spare Battery Pack         |
| Shotgun mount/firing system              | Robotic Wrist pitch        |
| Trooper Remote Engagement System         |                            |

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### Drive System

Twin Motor hi-torque internal chain drive system  
Wheels free drive disengagement system (wheels turn when power is off)  
Environmentally Sealed, 4 wheel all-terrain platform (optional Add-on platform for 6 wheel configuration)

### Overall Vehicle Dimensions

Length = 40 inches    Width = 29 inches  
Height = 25 inches    Weight = 520 pounds

### Manipulator / Boom System

Turret rotate = 220 degrees with hard stop	Claw Rotate = 360 degrees continuous
Shoulder Pitch = 0 to 200 degrees	Claw Open = 0 to 8 inches
Elbow Pitch = +/- 90 degrees	Clamping Force = variable to 150 pounds
Max. horizontal reach from vehicle = 48 inch	Max. lift capacity - extended = 40 pounds
Max. vertical reach from vehicle = 81 inch	Max. lift capacity - retracted = 75 pounds

### Weapons System

Single or dual multi-positional, shock resistant waterjet disruptor mount  
Double redundant interlocks and breakers for complete weapons safety - dual firing circuits

### Audio / Visual System

Colour multi-positional camera mounted at manipulator/claw or weapons  
Colour camera mounted in fully articulate pan tilt enclosure at vehicle rear  
2 way audio communication system  
Colour monitor at operator command station  
Picture-in-Picture display capability to view 2 cameras simultaneously  
Video/Audio recording capability

### Command / Control System

Advanced operator control station including proportional joystick controls  
Tether command link including storage and deployment reel - 600 ft  
Fully modular electronics for rapid field changeout capability

### Power

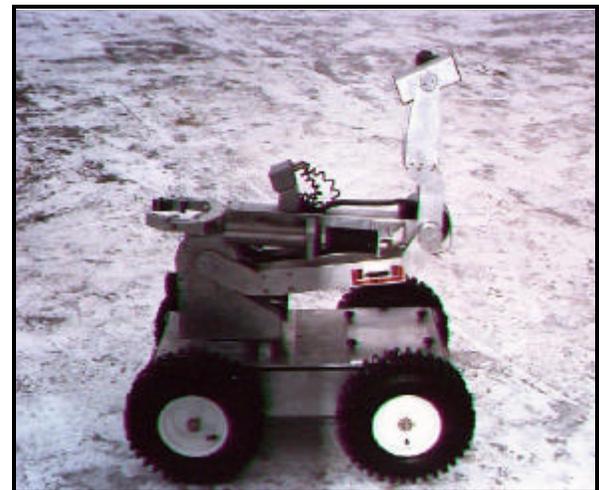
Sealed dual 12 Volt DC sealed lead acid rechargeable batteries (including charger) - 4 hour duty cycle  
Quick change battery system for rapid field changeout

### Miscellaneous Standard Features

X-ray deployment mount including source and cassette holder  
Field repair tool kit, Operating and maintenance manuals

### Warranty Support

Full one year warranty on all parts and labour  
Lifetime warranty against defects in manufacturing and/or workmanship  
Parts availability / support for period of 10 years following vehicle purchase  
Annual vehicle inspection at Terra Aerospace for period of 2 years following purchase  
24 hour/day support network/Hotline for the life of the vehicle



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## Guarantee / Warranty

The Manufacturer guarantees all equipment and components for life against defects in manufacturing and/or workmanship. Motors, Gearing and Electronic components are guaranteed for 2 years (excluding batteries). In the event of component failure, the manufacturer shall replace the defective item at no charge within 5 working days to minimize equipment downtime.

All Terra/Tac products are designed in accordance with Terra "AEGIS" program mandates. "Aegis" prescribes that all equipment components be designed with a focus on high reliability, multi-tasking and compatibility with other systems and components to improve asset sharing between EOD / Tactical and Hazmat Teams. Contact us for information on other innovative security products.

- Robotic EOD / Tactical Vehicles
- Smart Hook and Line Systems
- Search Mirrors and Tools
- Escape / Evacuation Ladder s

- Hotstic Robotic Manipulators
- Explosive Entry Systems
- TAC Dual Crimpers
- Precision Manufacturing

- Trooper Remote Engagement Systems
- EOD Technicians Tool Kits
- Techsaver Remote Handling System
- RF / Electromechanical Engineering

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