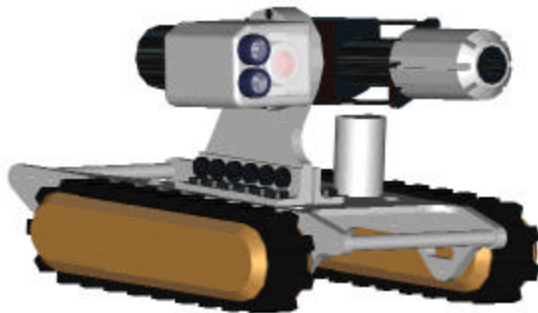


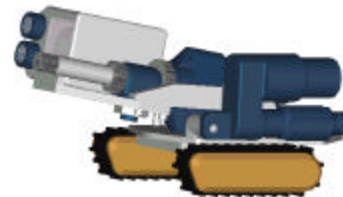
Mobile Disrupter Vehicle

The Economical Solution for Effective Remote Bomb Disrupting

To effectively respond to suspicious packages of unknown or hostile intent, there needs to be a safe, versatile and reliable approach widely available to all communities. Specially trained Explosive Ordnance Disposal (EOD) teams using reliable and affordable equipment such as the MDV and MicroMDV from Inuktun Services Ltd, can provide such an approach. The MDV and MicroMDV are robot mounted disrupters which remotely deliver, aim and fire disrupters with the usability, versatility and precision required by exacting EOD teams.



The Mini MDV



The Micro MDV

Mobile Disrupter Vehicle

Inuktun's Mobile Disrupter Vehicle (MDV) is a simple yet powerful solution to disrupting packages remotely. Especially designed to handle tough conditions and large or armored packages, the MDV can carry one of the largest disrupters possible on a mobile platform. Mounted on two patented Minitracs it also has one of the most powerful and rugged propulsion systems.

The 29mm MK II Neutrex Water Jet Disrupter which comes standard with the MDV was developed in conjunction with a federal bomb data center and EOD technicians. The 29mm firepower is capable of disarming packages of up to approx. 16 KG (35 lbs) but will damage most mini-robotic vehicles holding it. Inuktun's MDV was designed with the MK II in mind and is one of the few mini-remotely operated systems that can repeatedly fire the 29mm cannon without sustaining damage.

The MDV propulsion system is a pair of Inuktun's patented Minitracs. The 15" long tracks set at 32" apart makes a solid and stable operating platform.



Mobile Disrupter Vehicle

With solid brass construction and 100 lbs of pull the MDV is capable of traveling over and through a variety of hostile environments.

Utilizing high quality, proven technology, the MDV was designed and built in conjunction with the cannon manufacturer, Proparms, the world leader in water disrupter technology. As a tethered mobile platform, it can be tele-operated with visual feedback from its color zoom video camera. Once at the target, the targeting laser, camera and disrupter, which are mounted on a precision tilt mechanism, move together to provide a continuous view of the disrupter targeting lasers. This targeting system ensures an accurate shot.

MicroMDV

The MicroMDV is a small, powerful mobile disrupter perfectly suited for accessing targets located in confined places and disrupting smaller packages. With similar capabilities as the MDV, the MicroMDV's size not only extends its operational areas beyond the typical disrupters but also makes it one-man portable and operable. This portability combined with the lower price of a small, light system allows each agency to afford to outfit more EOD personnel with a robot mounted disrupter. This can promote faster response times and multiple responses.

The MicroMDV's size (13" x 11" x 7") allows for access in very confined spaces that other mobile vehicles can not go such as narrow passage ways, building crawl spaces, under cars and airplane baggage areas. Also driven by Inuktun's powerful tracks (Microtracs), the MicroMDV can travel in the most demanding circumstances.

The Micro MDV is armed with Proparm's 12.5 mm recoilless disrupter which has been designed to disrupt packages up to 4"x6"x8" and approximately ½ lb. total weight. The disrupter is mounted with laser targeting and a high quality camera on a tilt mechanism capable of aiming from horizontal to 90° vertical. This provides suitable range of motion with precision accuracy.

System Components

Both the MDV and MicroMDV incorporate similar high quality system components. They are:

- **18X color optical zoom camera:** output in standard PAL or NTSC format
- **2 Helium Neon Laser aiming system**
- **40 W Halogen lights**
- **Video feedback and Controls:** self-contained in a rugged Pelican carrying case with simple single power and control connections
- **100m tether:** lightweight, polyurethane jacketed for long life and ruggedness
- **12V or 24V battery power option**

Modularity and Economy

The MDV and MicroMDV were created through the partnership of a robotics company and disrupter company combining their specialized knowledge and experience. Consequently, these products offer unparalleled quality at very competitive prices. Each component incorporates years of design refinements and user input.

As well, common system components between the two remote disrupters and their simple design allow for exceptional modularity and economy.

When purchasing a complete system, the MDV and MicroMDV can share the camera, controls and tether so only a second platform and gun is needed to obtain the versatility of both sizes of mobile disrupter.

Finally, the MDV will easily attach or detach any Proparms gun so the system can be purchased without the gun and an existing gun be used for both remote-mobile and stationary-manned applications.

The MDV and MicroMDV systems are built with high quality parts and proven components. The system's reliability, functionality and low cost make it the most economical choice in remote mobile disrupter vehicles.



Mobile Disrupter Vehicle

MDV System

Neutrex Waterjet Disrupter MK II 29mm

Construction: Stainless steel and Aluminum
Ignition Voltage: 24 volts / 1 amp
Liquid Load: 6.5 Oz (190 ml) of water
Velocity: 1200 ft (360 m) / sec. Approx.
Recoil: 13,000 joules
Laser System: Helium Neon FA4

MDV Vehicle

Dimension: 24" L x 14" W x 16.5" H
(61cm x 35.5cm x 42cm)
Construction: Brass and anodized aluminum
Vehicle Weight: 90 lbs (41 kg)
Speed: 0 - 32+ ft / min (9.5 m/min)
Operating Temp: 0 to 50°C
Disrupter Range of Motion: ±30° horizontal

MicroMDV System

Proparms 12.5 Recoilless Waterjet Disrupter

Construction: Stainless steel
Ignition Voltage: 24 volts / 1 amp
Liquid Load: 30 ml
Velocity: unknown
Recoil: none
Laser System:

MicroMDV Vehicle

Dimension: 12 ¾" L x 10 ½" W x 6 ½" H (32cm x 26.5cm x 16.5cm)
Construction: Brass and anodized aluminum
Vehicle Weight: 30 Lbs. (13.6kg)
Speed: 0-30 ft/min (9 m/min)
Operating Temp: 0 to 50°C
Disrupter Range of Motion: +90° horizontal

MDV Control System (compatible with both MDV and MicroMDV systems)

Operating Voltage: 120V 60Hz (Inverter available for battery operation)
Tether: 330 ft (100 m), multi-conductor
Camera: Sony 18X zoom with autofocus
Lights: 40W, quartz halogen, variable brightness
Control System: Variable speed/direction joystick w/dual switch firing
Casing: Complete system packaged in two copolymer polypropylene, environmentally sealed Pelican cases.



The MiniMDV with Control System



The MicroMDV drives under a vehicle