



National Radio & Telecommunication Corporation
Reliability - Quality - Self-Reliance

EOD & Robotics



NRTC Tracked RCV (H-III & H-III Alpha)

NRTC EOD TRACKED RCV is highly ruggedized, reliable and light-weight vehicle, best suitable for Counter IED and Reconnaissance Operations

General Features

- Ruggedized Tracked Platform
- Stair climbing capability 45
- Equipped with 4-DOF Robotic arm
- Manipulate up to 40 lbs. of IED
- On-board 4x Night vision cameras for live feedback
- Dual Speed Modes for Precise Accuracy
- Portable Ground Control Station
- User-Friendly Interface
- Two-way Audio Talk Back
- Compatible with standard recoilless disrupter
- Dual Mode of Communication (Wireless + Fiber)
- Wireless Range up-to 500m (LOS)
- Mission time 3-4 hrs
- Video Backup
- Mil Grade Transportation Case





NRTC Combat Robot

NRTC EOD TRACKED RCV COMBAT-II is highly ruggedized tracked vehicle, designed for Combat operations, Border Security and Reconnaissance.

General Features

- Tracked platform with independent suspension
- Can negotiate rough terrains(Sand, Mud, Snow, Rocks)
- Equipped with 7.62 caliber weapon (MG-3)
- Two axis turret system with pan 360 and tilt -15-45
- Can Carry 500 rounds
- Dual CCD and Thermal camera for target acquisition
- Portable weather proof control unit with user friendly interface
- Protected firing control for safer operations
- Mission Time 4-5 hrs
- Can be customize according to requirement.





NRTC Fire Guard-I

NRTC FIRE FIGHTING ROBOT is tracked vehicle, designed to mitigate life threatening situations, provide fire suppression, situational awareness, rescue operation and intelligence gathering to first responders.

General Features

- Ruggedized Tracked Platform with independent suspension
- Hand Held control unit
- Night vision PTZ Camera with 20x Zoom
- Loading Capacity 150 kg
- Standard 2.5 inch Water Way Size
- Water Jetting Range 80 m @ 2400 LPM
- Working Pressure 1.0 MPA
- Remote Pan Tilt and Jet profile Control
- Water proof with Self Cooling Mechanism
- Operating Temperature Range 0 - 75 Celsius



UAV N-66 Merlin (Alpha)-VTOL

An advanced Aerial reconnaissance military solution for achieving centimeter absolute accuracy and intelligently empowering next generation of professionals.

General Features

- Flexible Take-off and Land
- Object locking and tracking
- ADS-B enabled
- Endurance of 90 min
- High Plateau adaptability
- Mission Radius of 15 km
- Ceiling of 5000m AMSL
- Auto Return Home Capabilities
- Cruise Speed of 80km/h



NRTC IED Disrupter Drone

Designed to strengthen anti-terrorism and tactical forces to neutralize improvised explosive devices in difficult to access environment

General Features

- Rugged Design
- Large Payload Capacity of 7-10kg
- Reconnaissance and Combat operations
- Endurance of 30 min
- AI Features
- Mission Radius of 5km
- Ceiling of 1500m AMSL
- Precision aiming using Scope
- Ability to carry multiple payload



NRTC FALCON

Designed to provide solution for surveillance and military observations

General Features

- Modular Design
- Search and Rescue Operation
- Long Endurance of 45 min
- Payload Carrying Capability of 1.5kg
- Cutting Edge AI Features
- Mission Radius of 8km
- High End Ceiling of 4000m AMSL
- User Customization Capability



NRTC HEXA-COPTER

A smart Rough & Tough Reconnaissance and Tactical Solution for Multiple Law Enforcement, Anti-Terrorism and Military operations. Adorned with customizable options makes it more versatile and flexible for vigorous missions that have unrivaled reliability.

General Features

- High Performance Navigation
- Medium Range Payload Capacity of 4-5kg
- ADS-B enabled
- Ability to carry multiple payloads
- Endurance of 40 min
- Guidance Ability
- Mission Radius of 6 km
- Ceiling of 2500m AMSL
- Mission Abort and Auto Return Home Capabilities



EOD Equipment



NRTC Disrupter

NRTC has developed all kinds of disrupters which are used by EOD squad team depending upon size of the IEDs. These disrupters can be deployed using light weight stands or mounting these disrupters on remotely operated EOD Robot(H-III). These disrupters inject projectiles of (water, clay, gel or cutters) at very high velocity in order to separate dynamically essential components of IEDs. All these disrupters are powered by electrically initiated cartridges.

Needle Disrupter NED-740

NED-740 is typically used to disrupt letter or small parcel devices, resulting in high probability of avoiding detonation of suspected devices.



Needle Disrupter
NED-740

Pigstick Disrupter PSD-740

PSD-740 is specially designed to disrupt wide range of explosive devices. It has the ability to pierce through a metallic sheet of 1.5mm thickness, enabling its effectiveness against suspected trunks, baggage's etc.



Pigstick Disrupter PSD-740

Hotrod Disrupter HOT-740

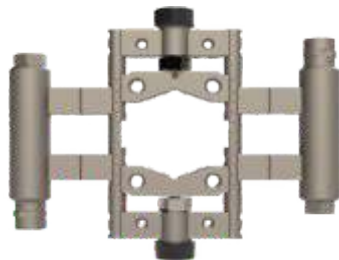
Hot-740 is the most powerful disrupter tool against any hard cased threats. It has the ability to disrupt vehicle door, pressure cooker, metallic sheet of thickness 3.2mm.



Hotrod Disrupter HOT-740

Rocket Wrench RW-161

RW-161 is a high torque, light weight wrench especially designed to unscrew fuse of UXOs & UXBs.



Rocket Wrench RW-161

EI Cable EI-513

EI-513 is a twisted cable of 250 meter on a spool. It is used to provide safe distance interface between exploder and disrupter



EI Cable EI-513

Electronic Initiator EI-577

EI-577 is an electronic explosion device which is designed to provide high potential difference required to activate electrically initiated carts/dets.



Electronic Exploder Shrike-I

NRTC Recoilless Disrupter with De-Armour (RD-740)

RD-740 is a modular, totally recoilless, inert tool specifically used to de-arm UXOs and disrupt IEDs. The cannon has been designed using a military gun barrel alloy steel.

General Features

The key feature of the RD-740 is that it is completely recoilless in operation using an annular compensating water mass ejected from the rear to neutralize the recoil. It has the ability to provide max standoff distance of 5-30 meter from target, ensuring effective piercing.



ABS CASE FOR RD-740



Recoilless Disrupter RD-740

Projectiles



Gel Round RDA-003



Clay Round RDA-002



Flip Fin Clay Round RDA-094



Clay Elastomer Round with Penetrator RDA-001



Flying Scalpel

Ammunition



Ammo Cart for Pigstick PIG-006



Ammo Cart for Hotrod HOT-008



Sound Unit Needle NLE-095



SGH Round RD-161

NRTC Specialized Tool Kits

Hook & Line Kit

- Lifting items
- Opening simple catches
- Moving objects in straight lines
- Moving objects along complex routes with multiple changes of direction using pulleys that open automatically
- Customization is also available as per user requirements



NRTC HOOK & LINE KIT



EOD IED RESPONSE BAG

EOD IED Response Bag

NRTC EOD IED RESPONSE Kit/bag comprises of common and special purpose tools used by EOD technicians/operator in response to incidents involving improvised explosive devices (IEDs) and other explosive hazards. Customization is also available as per user requirements.

Non-Magnetic Tool Kit

Designed with the ultimate protection and safety in mind, our Non-Magnetic Non-Sparking tool kit is built for EOD Technicians working on or near magnetic equipment or in highly flammable work environments.



Non-Magnetic Tool Kit

Underground Metal Detector (UGMD-I)

UGMD-I has effective detection of magnetic, non-magnetic and stainless-steel metal masses.

General Features:

- High discrimination capability for adjacent metal masses.
- Compensation for mineralized and high natural metal content soils.
- UGMD-I has auto calibration capability in addition, optimum sensitivity is ensured over all types of terrain.



Deep Search Mine Detector (DSMD-II)

DSMD-II is designed to detect very small near-surface metal objects, minimum metal mines or plastic mines. DSMD-II is capable of maximum sensitivity and best possible pinpointing of target.

General Features:

- Precise Pinpointing Controls integrated into the handle
- Visual Display with 14 LEDs
- Military Mode
- No interference with High Power lines
- Individual Ground Learning
- Built-in Self test function
- Water Proof Ip68



Handheld Metal Detector (PK-H801)

PK-H801 is a high performance Metal Detector designed to meet the exact requirements of the security industry.

General Features:

- No damage through free dropping at one meter altitude.
- Large 10" scan surface for quick, thorough scanning.
- Adjustable sensitivity



NRTC Snake Camera (HIS-2066)

HIS-2066 is designed to investigate hard to reach places. Used by Bomb Disposal Squad, Forensic Investigation team, Police and Law Enforcement Agencies.

Features

Sensor Size	: 1/10" CMOS VGA
Camera Length	: 20 mm
View Angle	: 120° - 150°
Light Source	: 6 LED Lights
Monitor	: 4.5" TFT LCL
SD Card	: 16 GB (max 32 GB)
Video Format	: MPEG4
Picture Format	: JPEG
Zoom Function	: 8x
Battery	: Rechargeable 3.7 V
	Weather Proof Case for Storage



Sensor Probe

HIS-2066

NRTC IR Telescopic Camera (TSCS-IV)

IR Telescopic Camera provides a quick and safe way for inspection culvert scanning and over the wall reconnaissance with a max telescopic extension of 4 meter.

Features

Camera

Lens	: F3.6 (fixed)
Mode	: Color/Mono

LCD Camera

Size	: 5.0" (diagonal)
Mode	: 640x480 pixels (RGB)

DVR

Format rate	: PAL 25 f/s
Mode	: 640x480 pixels (RGB)
Working Mode	: Recording / Snapshot
Memory	: SD/SDHC card ≤ 32 GB



LCD UNIT

Telescopic IR Camera

NRTC Specialized Kits For Forensic Investigation

IED FORENSIC KIT

NRTC IED Tool kit is loaded with 20x professional tools to enhance the Bomb Disposal Squad's ability of post blast forensic investigation. Customization is available as per user requirements.



IED FORENSIC KIT

DROP-EX KIT

DropEx explosive detection is a dropper-bottle technology developed for both in-the-field and laboratory conditions. Kit includes a full range of chemicals required for the identification of chemical composition used in IEDs packaged in convenient 'Work Station' cases.

- DropEx 1 : Test for Polynitro- Aromatics.
- DropEx 2 : Test for Nitrate Esters/Nitramines.
- DropEx 3 : Test for Inorganic Nitrate Compounds.
- DropEx A : Test for Chlorates & Bromates.
- DropEx B+ : Test for Chlorates/Peroxide Based Compounds.
- DropEx U : Test for Urea Nitrate.
- DropEx P : Test for Test for Perchlorates.



DROPEX KIT



DROPPER BOTTLE

ESI KIT

Unmodified ESI Kit consists of 39x items packaged in a sturdy Pelican carry case, to fulfil the demands of tools and instruments for various scenarios. It also contains a military standard ruggedized bag with custom dividers and a pocketed pouch system. Customization is available as per user requirements.



ESI KIT

Bomb Manipulator (BM-001)

Telescopic Bomb Manipulator is used for Mortar, Rocket & IED manipulation and handling. It allows the operator to pick up and remove the suspected device from a safe distance of 4.5 meter.



CLAW



BM-001



LCD UNIT

General Features

Manipulator max grab	: 10 Kg
Mechanical Arm Length	: 4.5 m
Control way	: Battery Powered
Rotating	: Front arm 360°
Supporting	: Adjustable Tripod with Wheels
Camera	: Infrared night vision camera
Screen	: 6" LCD Screen
Battery Life	: More than 5 hours
Weight	: 25 Kgs, 30Kgs with case
Size	: 1335 x 620 x 315 mm

Search Equipment Under Vehicle Inspection System (UVIS-I)

EOD Vehicle is designed in collaboration with explosive ordnance disposal teams, Front line Com operators, EOD bomb response vehicles are built on custom chassis and include storage for EOD equipment and day boxes for Type 3 explosives.

General Features

EOD vehicle has compartment for an EOD ROBOT, the aluminum slide-out ramp, command and communications center for remote operations, storage shelves and cabinets, heavy-duty floor, wall surfaces and emergency lighting for night time operations.



Tactical Gear



Bomb Safety Circle



Bomb Container



Ballistic Helmet



Anti Riot Suit



Bullet Proof Jacket



Ballistic Goggle



Taser Gun



Military Gloves



Ballistic Shield



Hand Cuff



Gas Mask Respirator

Anti-Riot Equipment



Thigh Holster



Load Bearing Jacket



Waist Holster



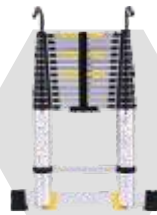
Team Medic Bag



Anti Riot Helmet



Noise Reduction Ear Muffs



Adjustable Ladder



Anti Riot Shield



Pepper Spray



Handheld Spot Light



Anti Riot Baton





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