



# EAD-50 Recoilless Disruptor De-armor



EAD-50 is a multi-barrel recoilless system to disable the IED as well as to render safe the UXO. It can attack from a close distance of up to 30 meters. The system is modular with multiple configurations. Options are offered for an integrated wireless initiation system as well as with different aids to aim the targeted area.

## Key Features

- *Water, Solid Slugs or Frangible Slugs can be discharged.*
- *Multi Barrel system with spin stabilised rifled Projectiles.*
- *Integrated Wireless initiation system option.*
- *One power cartridge for all situations due adjustable recoil compensation.*
- *Day/ Night sight and laser pointers on standard Picatinny rail.*
- *Multiple safeties of handling when cartridge is installed.*
- *Stable Tripod and Multiple multi-position stand options.*
- *Stainless Steel / Aluminium/ Carbon fiber design options.*

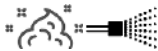


## Multi Barrel – Diverse Projectile System



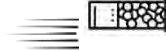
Choke barrel

Fires Fluids & Very close  
Taper Bore



40 mm Muzzled Barrel

Fires Frangible & Standoff  
Smooth Bore or rifled



25.4 mm Barrel

Fires Solids & Targeted  
Smooth Bore



Powered by electrical 0.5-inch cartridge; EAD-50's is a modular system with multi Barrel/ Multiple projectiles provide solutions in diverse situations. In its disruptor's mode it can be configured to fire frangible or fluid projectiles and in De armer mode; it can fire different solid projectiles to attack the area of interest of the UXO or pipe bomb. The disruptor cancels its recoil by also ejecting water rearward. The rearward ejection design has very insignificant effect on the surroundings.

Item	Specifications
Disruptor with 40 mm barrel	4 Kg
Disruptor with Choke barrel	3.6 Kg
Multi-position stand with mounting block	4.6 kg
Tripod stand with Floating head	Less than 1 Kg
Length with muzzle	550 mm
Length with choke	485 mm
Overall diameter across recoil body	76 mm
Breech Assembly	Separate Breech for Leaded and Non-leaded cartridges



# Accessories Recoilless Disruptors

## End Caps

Penetrator Cap not only seals the water but with its metallic tip achieves a entry hole in metallic walled IEDs



Closure Cap seals water inside the barrel when attaching soft targets.



Annular Closure Cap seal the water from capture gate



## Pistons

HDPE Piston Annular is designed to hold water just at the gas side in the Compensator.



Elastomer Projectile have higher density with and without Penetrator are designed for close attack



Polyethylene 40 mm Piston holds the water or fluid



## Solid Slugs

One inch barrel is provided to fire solid and fork slugs to perform as De-armor function



### Blunt Slug

Blunt ended steel projectile, fitted with an 'O' Ring, used in conjunction with 1 inch barrel to attack UXB fuse



### Chisel Slug

Chisel end shaped projectile is used with 1 inch barrel for cutting action.



### Blade Slug

Blade slug is designed to cut in two half like the pipe bomb.



### Fork Slug

Fork



## Rifled barrel slugs



**Plain Slug.** The plain slug is to be a 200g projectile comprising a one-inch steel Plain Slug mounted upon a HDPE piston/carrier. It is fired through the rifled barrel. Typical target will be UXB fuses. Typical stand-off – 0.20 to 30m and beyond is intended.



**Frangible Clay Slug** This is to be one-piece piston-carrier projectile. filled with refined china clay fired through the rifled barrel for long stand-off shots out to 30 meters and beyond. It could also be used for punching through car doors and windows to hit an IED on the inside of the vehicle. A Stand-off – 0.20 to 30m and beyond is intended.



**Frangible Ceramic Slug.** This is to be a projectile comprising an HDPE one-piece piston-carrier filled with alumina balls and powder. The projectile is to be designed to be used against IEDs with heavier metal enclosures. It could also be used to punch through vehicle doors and other panels to take out an IED inside the vehicle. A Stand-off of – 0.20 to 30m and beyond is intended.



**Frangible Ceramic Slug with Penetrator.** This is to be 200g projectile and has a feature of penetrator cone. This version of the Projectile is to be designed for punching into heavy metal enclosures such as LP gas containers, pressurised drinks and heavy fire extinguishers etc. Also, for punching through vehicle doors to take out, for example an IED in a metal container inside the vehicle.

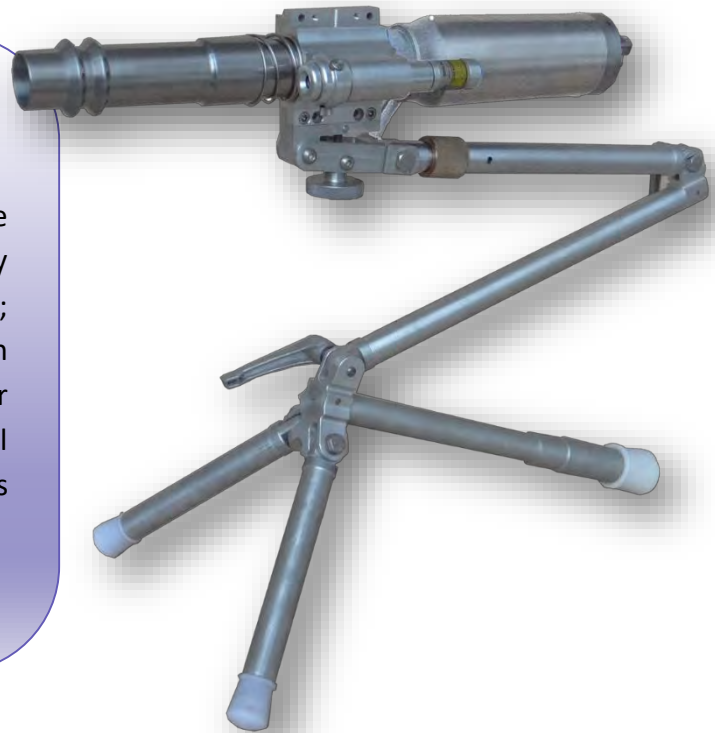




# Upgrade Options

## EAD-50SS A Stainless Steel Disruptor

Conventional multiple barrel disruptors are of ferrous steel. As water is filled in, they may have potential rusting issues. Whereas; we have developed expertise on High strength Stainless Steel metallurgy for different disruptors and offer to provide all **Stainless Steel metallurgy** for EAD-50 in its upgraded version as EAD-50SS.



## Tripod Kit With Floating head & Picatinny Rail Clamping

Picatinny

For a rapid deployment OF disruptor at IED, it is mounted on a smooth pan / tilt floating head. Setting up the disruptor on Tripod is very easy as the system uses Picatinny Rail Clamps. Anodized aluminum or Carbon fiber construction has weight of less than 1 kg and height to 4 feet. Legs are one push clamps to fit uneven surfaces. When initiation is with our RF device, operator takes less than 30 seconds at the IED

30 Sec



## RF Initiation System

Integration of RF initiation system with the disruptor provides flexibility and speed of IEDD operation. The EOD operator gets relieved to carry the demolition wire to the IED. Our Wireless Initiation system RDS-6722 is provided with mounting & fittings to be installed on Disruptor's standard mount or the system can be installed with International Picatinny rail mount standard.



Quick clip-on

The RF system is offered with single as well as with dual output firing port for single or dual disruptor attack.



*SL-6722A – With single firing port*



*SL-6722B – With Dual firing port*





# Aiming Aids options

## Laser & Sight



One mounting with the multi-position stand has provision of 2 x laser OR 1 x laser + 1 x telescopic sight. Additional mounting can also be installed. The Laser sight has a strong shock resistance body and Superior optical glass and has provision for sideway and elevation adjustments.

## Specifications

Maximum Power	5mw	Weight	5 oz (146g)
Laser Color	Green laser sight	Body Color	Black
Wavelength	532 nm	Power	1 x CR123A battery
Tube Diameter	26 mm	Laser Class	3R
Length	121 mm	Range	300~500m
Material	Aluminium alloy		

## Additional mounting Options





## Picatinny rail mounting



### Range Finder

With 225 grams of weight, it is a handy tool for decision making at the incident control point as well at the IED. Can be installed on the rails of the disruptor. Can measure upto 700 meters and displays on illuminant OLED screen.

### Laser sight

Two laser sights are installed on either sides of the disruptor mount on Picatinny rail for a quick identification of the targeted area of the disruptor.



### LED Flashlight with Laser sight

Quick release mounting of a laser sight and flashlight. Flashlight / laser sight can be operated together as well as independently. Black solid ABS body. Operate with 2 x CR123 battery.

### Multi-function 3-10x42 Rifle scope

In this all in one solution we have a laser sight, Optical scope and a red dot sight. It can easily be installed and removed from the Picatinny rail. You can add in more accessories on this unit to add in more features.



### Day & Night LCD sight

Aiming the target on disruptor mounted riflescope can be aided with a vision kit and LCD. During the night a waterproof 850nm Infrared LED illumination gives good vision for 350 Meters. Camera provides a sharp and clear image both during day also. Easily switch between day (Color) and night mode (IR monochrome).





# Laser Range Finder J-3000



The J-300 Laser range finder is a tough product made with high-density pumped PC+ABS materials. It is a sturdy and sealed design to IP54 protection level. It has 800mAH rechargeable lithium battery for long working time. The lens is coated with multi-layer high-definition transparent film for a clear vision.

## Key features

- **Maximum Measuring Number: 10000 times**
- **Dust and Splash Protection: IP54**
- **Power Supply: USB lithium battery direct charge**
- **Measuring Range: 6-3000 meters**
- **Laser Class: I class of human eye safety laser**
- **Measurement Accuracy: 0.5 meters**
- **Working Environment: Outdoor**



## Specifications

<b>Measuring Range</b>	<b>Up to 3000 (m)</b>
<b>Ranging Error</b>	<b>±0.3m (&lt;100M); ±1m (&gt;400M)</b>
<b>Magnification</b>	<b>6X</b>
<b>Field of View</b>	<b>7.5°</b>
<b>Diopter</b>	<b>±3°</b>
<b>Exit Pupil Diameter</b>	<b>3.7 mm</b>
<b>Objective Lens Size</b>	<b>22 mm</b>
<b>Eyepiece Size</b>	<b>16 mm</b>
<b>Measuring Range of Speed</b>	<b>20-300 km/h</b>
<b>Diopter Adjustment</b>	<b>Eyepiece adjustment</b>
<b>Side Angle Range</b>	<b>-60°~60°</b>
<b>Automatic Shut-down</b>	<b>No operation for 8 seconds</b>
<b>Power Supply</b>	<b>Built-in lithium battery 3.7v/800mAH</b>
<b>Display</b>	<b>LCD</b>
<b>Operating Temperature</b>	<b>-10° - 50° C</b>
<b>Weight</b>	<b>168 g (without battery and the accessories)</b>
<b>Size</b>	<b>118mm x 75mm x40mm</b>