



MARS

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MARS is the latest in law enforcement defensive hardware, as an effective aid in controlling crowds, riots and unrest efficiently at both long and short distance, while minimizing civilian casualties. Designed for both long and short distance use, the MARS Unit offers the ability to quell escalating situations as well as increasing the possibility of a pre-emptive resolution.

Incorporating six essential functions into one unit, the unit is able to:

- Defend its user from incoming missiles and physical assault.
- Deliver an electrical discharge designed to stun persons who come into contact with the Mars Unit.
- Discharge tear gas and a near permanent coloration marker gas.
- Fire a variety of non lethal projectiles, such as tear gas, crowd dispersal rounds, coloration marker gas rounds, flash bangs, vision obscuring rounds and fire extinguishing rounds.
- Increase visibility with a range of up to 200m by way of a powerful spotlight in order to enable its user to operate efficiently in poorly lit or dark environments.
- Issue a customizable warning siren.





A MODERN SOLUTION TO A CHANGING WORLD

Designed to meet the needs of modern global Law enforcement, **MARS** is not only a non-lethal alternative to conventional arms in unrest situations but is also environmentally friendly and serves to show the world that the intention of its' user is not violent suppression but conscientious resolution.

Pre-emptive Resolution:

One of the primary goals of the MARS is averting riot situations before they culminate into being. In conventional riot situations, the presence of Arms has only a limited deterrent effect as many countries are reluctant to use deadly force to resolve situations in face of international pressure. The MARS unit acts to improve on this as its' full power is far more readily used, which aggressors will quickly become aware of. Any attack results in an incapacitating electric shock, every projectile thrown can be met with a more effective alternative.

Easy to Use Safety and rapid reload system:

The safety of the MARS user is a priority and as such, every function of the unit is protected by an easy to operate safety trigger system, which must be enabled before operating any of functions. Furthermore, all of the rounds are easy to reload which can be done in between 2 - 4 seconds by trained personnel.

Environmentally Friendly:

The MARS unit uses a fully rechargeable Nickel-Hydrogen battery, which can be used for the entire life of the product. The ammunition is made of a specially designed paper derivative which both efficient and bio-degradable. All the disposable elements in the Unit are environmentally safe and do not require special disposal processes.



DETAILED INFORMATION ON THE SIX KEY FUNCTIONS



1. Hardened Transparent Composite Shield:

The MARS unit is made from an ultra hardened yet highly flexible light weight plastic composite, able to withstand a continuous onslaught in all terrains. Functional in even the most extreme conditions, the MARS unit fulfills the defensive needs of law enforcement agencies the world over.

2. Electrical Defensive Function:

Mounted on the front of the MARS unit is a high output electrical attack plate utilizing 6 conductive contacts and 2 circular tracks which deliver 20,000 volts upon command when in contact with the target. Extremely durable and capable of being used 2000 times per full battery charge, this electrical attack system is designed to neutralize fully healthy adult human opponents without fatality. (Can be removed upon request for compliance purposes)

3. Tear Gas and Coloration Discharge:

Possessing steel nozzles on either side of the electrical attack plate, the MARS unit is able to discharge tear gas and marker gas at a range of 1.5 - 5m, further increasing the efficiency of properly equipped users in close combat situations.

4. Multi-purpose Ammunition Launchers:

Incorporated into the MARS unit are three pressure powered ammunition launchers capable of launching any of the specially designed cartridges to a distance of over 80 meters. These launchers give the MARS unit long range offensive capabilities enabling a user to preemptively disperse a hostile crowd before it becomes necessary to enter into close combat.

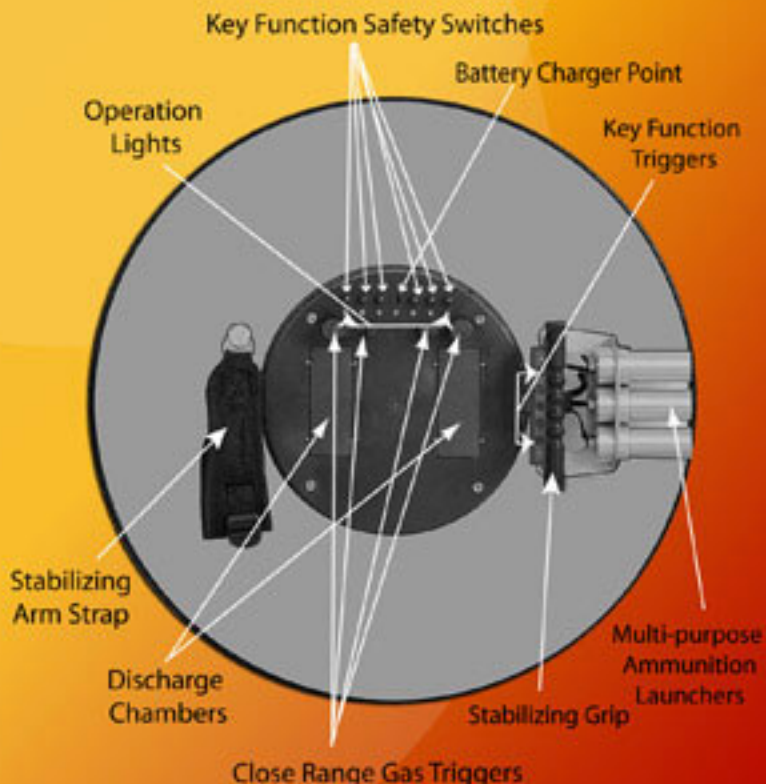
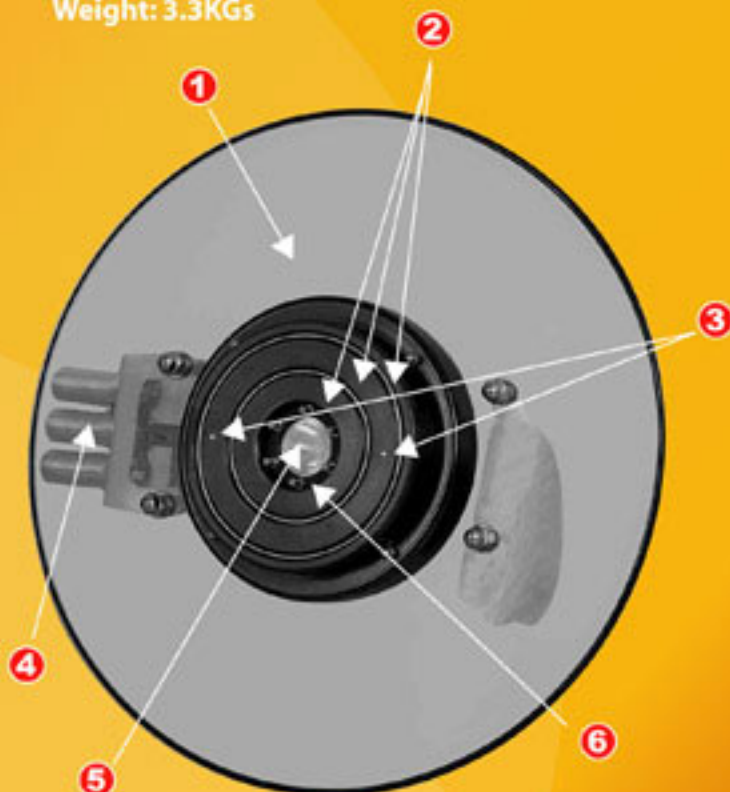
5. Powerful Spotlight:

Built into the centre of the MARS unit is an all weather hard light allowing the unit to be equally effective at night. The hard light has a range of up to 200m which allows the user enough time to target incoming hostiles with unit's long range functions.

6. Customizable Warning Siren/Notification:

In order to better serve the specific needs of law enforcement agencies, the MARS unit comes equipped with a built in warning device that serves to alert aggressors to the danger they are facing. This warning device is available in standard siren mode but can be customized to issue any warning in any language upon request.

Diameter: 570cm
Thickness: 0.38 - 0.6cm
Weight: 3.3KGs





SELECTION OF NON-LETHAL AMMUNITION



All ammunition has a detonation area of 30 m² - 50 m² and a maximum range of up to 80m and are color coded to avoid confusion.

Tear Gas Rounds:

These rounds contain the highest grade of organically produced tear gas with the ability to incapacitate aggressors with a full recovery period of up to 9 hours. As it uses mainly organic elements it does not cause permanent harm and is environmentally friendly.



Crowd Dispersal Rounds:

These rounds contain 50 small hardened plastic pellets which when aimed above an aggressive crowd will explode with a loud concussion sound discharging the pellets. This round aims to cause panic and confusion with minimal harm to the targets. The sensation when hit with one of the pellets is similar to that of a standard grade BB gun (Pellet Gun). As the pellets are designed to expel down towards a crowd, there is little chance of ocular damage.

Marker Rounds:

These rounds will release a colored marker which will bond to the skin of the targets for up to 5 days (or 12 washes), making it easy to identify aggressors involved in hostile actions after the event.

Flash Bangs:

The flash bang rounds are specifically engineered to disorient and create panic within the targets. The extremely loud detonation of the round coupled with a disorienting flash will clear the target area while alarming the aggressors in the vicinity.

Vision Obscuring Rounds:

The rounds discharge a non toxic, vision obscuring smoke which enables the user to intimidate and alarm potential aggressors.

Fire extinguishing rounds:

In civil unrest situations, property damage is a natural consequence. The Fire Extinguishing rounds give the user the ability to mitigate this damage by extinguishing fires or property and vehicles by issuing a flame retarding solution which will quell and extinguishing many small fires.

MARS Unit Technical Specifications :

570 cm Diameter
0.38 - 0.6cm Thickness
6v 1300mA.hx5 Nickel-Hydrogen batteries
20KV Electrical Attack (1.5 - 2A)
60 -80m launching range
1.5 - 5m Ammunition area effect
200m Hard Light Range
3.1kg weight

Ammunition Technical Specifications:

25 x 85mm
48 grams in weight per round
Maximum Range of ammunition:
80m
30 - 50m Area of effect
Can be used for up to 2 years

Environmental Operating Parameters:

-20 - 40 Degrees Celsius
20 - 96% Relative Humidity
86 - 106KPA Barometric Pressure

Accessories:

Every MARS unit comes equipped with:
1 specially designed battery charger
All required Nickel-Hydrogen Rechargeable Batteries included
1 Tear gas and 1 Marker Gas discharge canister

The State Intellectual Property Office of the People's Republic of China (P.R.C) has accepted the Mars unit's patent application: Patent Application No's: 200630066421.0 and 200610036733.6 apply. The Mars unit has also been certified by the Special Police Equipments Quality Supervision Testing Center of the Ministry of Public Security of the P.R.C.



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