

# PROJECTOR LIQUID CS AEROSOL





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REF. 3080/1/2

## DESCRIPTION

A seamless aluminium canister fitted with an actuator and filled with a CS irritant solution propelled by an inert gas. Various size canisters and actuators make a wide range of applications possible.

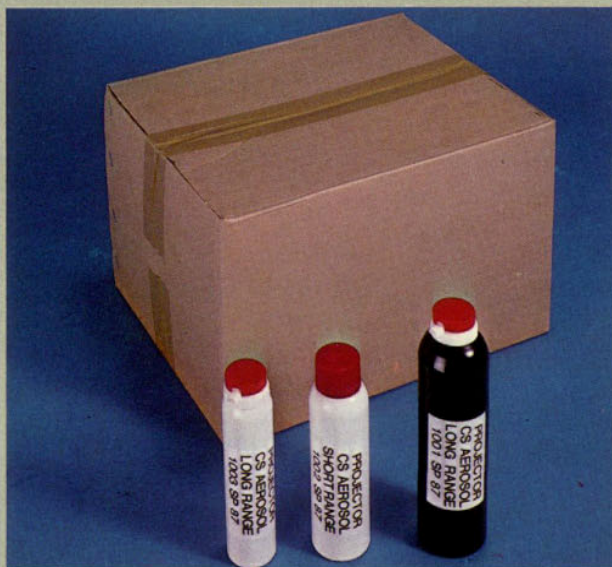
## APPLICATION

A personal security device designed for protection at close quarters of security personnel, VIP's, etc. The dense aerosol of irritant CS generated can be controlled such that only the required amount of irritant gas is dispensed.

## SPECIFICATIONS

The standard configurations are canisters filled with either 100 grams or 250 grams of liquid and fitted with long or short range actuators.

|                  |   |               |
|------------------|---|---------------|
| Charge mass      | : | 100 or 250 g  |
| Range: short     | : | 1,0 to 2,5 m  |
| long             | : | 2,5 to 4,5 m  |
| Concentration CS | : | 0,6% w/w      |
| Propellant       | : | Freon gas     |
| Solvent          | : | Ethyl acetate |



## PACKAGING

### Item Packaging

|                   |   |                          |
|-------------------|---|--------------------------|
| Type of packaging | : | Fibreboard<br>Separators |
|-------------------|---|--------------------------|

### Bulk Packaging

|                  |          |                            |
|------------------|----------|----------------------------|
| Type of box      | :        | Hardwalled Plastic         |
|                  |          | 140 LR    140 SR    350 LR |
| Quantity per box | :        | 63        48        35     |
| Gross weight     | :        | 18 kg    14 kg    18 kg    |
| Dimensions       | Width :  | 402 mm                     |
|                  | Height : | 236 mm                     |
|                  | Length : | 512 mm                     |

Additional information is available on request.



# RIOT CONTROL SYSTEMS AND PYROTECHNICS



**D E N E L**

# 12 GAUGE RIOT CONTROL SYSTEM

## APPLICATION

The system was developed to provide a peace-keeping force with a full range of options for riot control while standardizing on a 12 gauge riot control shotgun. The most obvious advantages of the system are its cost effectiveness and versatility. The system provides a spectrum of well defined countermeasure force levels, ranging from absolute minimum force to self defence capabilities, should the situation demand it. The 12 Gauge Thundershot can be fired over or in the vicinity of rioters. It produces a loud report and flash without fragments. The CS Irritant Smoke Rifle Grenade is designed for the 12 gauge shotgun as well as 7,62 and 5,56 mm bullet trap or gas cartridge calibres. It ejects three canisters in flight which emit dense clouds of CS Irritant smoke. The 12 Gauge Baton is available in single or double ball versions. It provides a quick, light and accurate means of disabling selected activists amongst a group of rioters. 12 Gauge Plastic Cased Ammunition is available in all standard shot sizes, including a solid slug.



## TECHNICAL DATA

|                    | THUNDERSHOT       | RIFLE GRENADE            | BATON SINGLE BALL | BATON DOUBLE BALL |
|--------------------|-------------------|--------------------------|-------------------|-------------------|
| Effective Range    | 50m - 75m         | 70 - 170m                | 50 - 70m          | 50 - 70m          |
| Sound Intensity    | 90db              | -                        | -                 | -                 |
| Weight             | 18,5g             | 519g                     | 31g               | 31g               |
| Pyrotechnic Weight | -                 | 204g                     | 0,5g              | 0,5g              |
| Function Time      | -                 | 30 sec Minimum           | -                 | -                 |
| Item Packaging     | Carton            | Waterproof Plastic Pouch | Carton            | Carton            |
| Box Type           | Cardboard Box     | Hardwalled Plastic       | Cardboard Box     | Cardboard Box     |
| Gross Weight       | 5kg               | 16kg                     | 10kg              | 10kg              |
| Dimensions         | 315 x 150 x 215mm | 340 x 345 x 405mm        | 150 x 250 x 325mm | 402 x 236 x 512mm |



# 37/38mm RIOT CONTROL SYSTEM

## APPLICATION

The 37mm munition system provides a comprehensive range of riot control measures, and the rounds can be fired from most 37mm and 38mm weapons. The 37mm Aerial Sonic Round produces a loud report and bright flash without fragments. It is fired over or in the vicinity of rioters with the intention of scaring them off. Two options, 70m and 140m range rounds, are available. The 37m CS Irritant Smoke Round provides an accurate means of distributing CS irritant smoke and can be fired into buildings. The 37mm Baton Round neutralizes a rioter by delivering a hefty, non-lethal punch. The 37mm Plastic Shot Round contains 18 high density polymer balls, effective for groups of rioters or mob situations. The 37mm Signal Round ejects either a coloured (green, red or yellow) star for command and control purposes, or a flare to illuminate a conflict area.



## TECHNICAL DATA

|                 | AERIAL SONIC       | CS IRRITANT SMOKE  | BATON              | PLASTIC SHOT       | SIGNALS            |
|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Weight          | 117g/120g          | 115g               | 157g               | 190g               | 117g               |
| Pyro Weight     | 11g/12g            | 53g                | -                  | -                  | 70g                |
| Function Time   | -                  | 12 sec Minimum     | -                  | -                  | 6 sec              |
| Effective Range | 70m/140m           | 70m x 110m         | 40 - 100m          | 50 - 90m           | 100m Altitude      |
| Sound Intensity | 110db at 40m       | -                  | -                  | -                  | -                  |
| Item Packaging  | Plastic Pouch      | Plastic Pouch      | Plastic Pouch      | Plastic Pouch      | Plastic Pouch      |
| Box, Quantity   | 85                 | 85                 | 85                 | 85                 | 85                 |
| Box Type        | Hardwalled Plastic | Hardwalled Plastic | Hardwalled Plastic | Hardwalled Plastic | Hardwalled Plastic |
| Gross Weight    | 16kg/18kg          | 15kg               | 18kg               | 26kg               | 18kg               |
| Dimensions      | 402x236x512mm      | 402x236x512mm      | 402x236x512mm      | 402x236x512mm      | 402x236x512mm      |



# HAND GRENADES, CS SMOKE GENERATORS AND AEROSOLS

## APPLICATION

The CS Irritant Smoke Grenade contains three individual canisters which disperse CS irritant smoke over a large area. It is also available in a single canister option. The Stun Hand Grenade has no fragments but produces two interspersed loud reports, each accompanied by a bright flash. In enclosed spaces it causes temporary disorientation and can effectively scatter riotous groups. Coloured Smoke Grenades, available in red, green, yellow, orange, blue and white are used for signalling, screening, simulation and riot control training. The Illuminating Hand Grenade provides an adequate light source in emergency conditions. The electrically initiated CS Irritant Smoke Generator is remotely activated for use from vehicles, helicopters or other mobile means for large scale clearance operations where the movement of the vehicle dictates the dispersion of the CS Smoke. CS Irritant Liquid Aerosols are available in short and long range versions.



## TECHNICAL DATA

|               | CS IRRITANT<br>SMOKE GRENADE<br>MULTI / SINGLE | STUN HAND<br>GRENADE        | COLOURED<br>SMOKE<br>GRENADES | ILLUMINATING<br>HAND<br>GRENADE | CS IRRITANT<br>SMOKE<br>GENERATOR | CS IRRITANT<br>LIQUID<br>AEROSOLS |
|---------------|--|-----------------------------|-------------------------------|---------------------------------|-----------------------------------|-----------------------------------|
| Total Weight  | 472g/430g                                      | 250g                        | 380g                          | 480g                            | 1 584g                            | -                                 |
| Pyro Weight   | 3 x 68g  | 24g                         | 180g                          | 250g                            | 1 000g                            | 100g/250g                         |
| Function Time | 20 sec   | -                           | 30 sec                        | 70 sec                          | 105 sec                           | -                                 |
| Luminosity    | -  | -                           | -                             | 70 000 cd<br>Minimum            | -                                 | -                                 |
| Delay         | 1,5 sec  | 1,5 sec                     | 1,5 sec                       | 1,5 sec                         | 1,5 sec                           | -                                 |
| Packaging     | Waterproof<br>Plastic Pouch                    | Waterproof<br>Plastic Pouch | Waterproof<br>Plastic Pouch   | Waterproof<br>Plastic Pouch     | Waterproof<br>Plastic Pouch       | Fibreboard<br>Separators          |
| Box Type      | Hardwalled<br>Plastic                          | Wood                        | Hardwalled<br>Plastic         | Hardwalled<br>Plastic           | Hardwalled<br>Plastic             | Hardwalled<br>Plastic             |
| Gross Weight  | 18kg/13kg                                      | 10kg                        | 13kg                          | 18kg                            | 27kg                              | 13kg                              |
| Dimensions    | 402 x 236 x<br>512mm                           | 342 x 256 x<br>222mm        | 402 x 236 x<br>512mm          | 402 x 236 x<br>512mm            | 402 x 236 x<br>512mm              | 402 x 236<br>512mm                |

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