

# RIOT GRENADES/EQUIPMENT

## CATALOGUE



# CS TEAR GAS HAND GRENADE

## *CS Tear Gas Emission*

- ✓ Fist-sized light weight for easy handle
- ✓ Violent movement not to throw back
- ✓ Strong emission
- ✓ Suitable for close defense



<b>MODEL NO</b>	<b>CCS-60C</b>
<b>TYPE</b>	Combustion / CS Smoke
<b>TWIST ACTION</b>	<b>Random movement</b>
<b>RADIUS</b>	Within 1~10 meter radius
<b>APPLICATION</b>	On the hard soil ground & asphalt ground
<b>PORTS</b>	Bottom & Side (2 ports)
<b>MATERIAL / OUTER</b>	Plastic
<b>MATERIAL / INNER</b>	Aluminum Cartridge
<b>SIZE</b>	Ø65 x 125mm
<b>WEIGHT</b>	340 ± 10 g
<b>CS CONCENTRATION</b>	25 ± 5% (Adjustable by requests)
<b>DELAY TIME</b>	1 ~ 3 sec (Adjustable)
<b>EMISSION &amp; TWISTING</b>	15 ± 5 sec
<b>PACKING &amp; SHIPPING</b>	Each in impermeable plastic bag 50 rounds / Carton Box 352 x 352 x 288mm Net 17kg / Gross 18kg DG Class 4.1 & 6.1 / UN No. 1700

The packing detail is subject to change.

# 37/38mm

## SMOKE CARTRIDGE

### *Color Smoke Emission*



MODEL NO	CCS-40A-38TP
TYPE	Combustion/ Color Smoke
MATERIALAL / OUTER	Aluminum
MATERIALAL / INNER	Aluminum
OVERALL LENGTH	120 ± 2mm
OUTER DIAMETER	37/38 mm
OVERALL WEIGHT	200 ± 10g
COMPATIBILITY	37/38mm Anti-riot Launchers 40mm Grenade Launchers (Smooth bore & Rifled one)
SMOKE COLOR	Yellow, Red, Orange, Purple, Green, Blue, White
EMISSION TIME	25 ± 5 sec (Yellow, Red, Orange, Purple, Green, Blue) 35 ± 5 sec (White)
DELAY TIME	2 ~ 3 sec (Adjustable)
OPERATING TEMP	-20 ~ +50 °C
EFFECTIVE RANGE	120 ~ 160m
WATERPROOF	Lacquer Coated Primer & Sealed Top
PACKING & SHIPPING	Each in impermeable plastic bag 50 rounds / Metallic Drum Dia 310 x 350mm (± 5mm) Gross Weight 13.5kg / Drum DG Class 1.4G / UN No. 0303
The packing detail is subject to change.	

# 40mm

## SMOKE CARTRIDGE

*Color Smoke Emission*



MODEL NO	CCS-40A-40TP
TYPE	Combustion/ Color Smoke
MATERIALAL / OUTER	Aluminum
MATERIALAL / INNER	Aluminum
OVERALL LENGTH	120 mm
OUTER DIAMETER	40 mm
OVERALL WEIGHT	255 ± 10 g
COMPATIBILITY	By 40mm Grenade Launchers
SMOKE COLOR	Yellow, Red, Orange, Violet, Green, Blue, White
EMISSION TIME	25 ± 5 sec (Yellow, Red, Orange, Purple, Green, Blue) 35 ± 5 sec (White)
DELAY TIME	2 ~ 3 sec (Adjustable)
OPERATING TEMP	-20 ~ +50 °C
EFFECTIVE RANGE	120 ~ 160m
WATERPROOF	Lacquer Coated Primer & Sealed Top
PACKING	Each in impermeable plastic bag 50 rounds / Metallic Drum Dia 310 x 350mm (± 5mm) Gross Weight 13.5kg / Drum DG Class 1.4G / UN No. 0303
The packing detail is subject to change.	

# 38/40mm

## AIR BURSTING CARTRIDGE

### Air Bursting / Flash Bang



MODEL NO.	CCS-40T-38	CCS-40B-38 (previous CAB-40B-38)
MATERIAL / OUTER	Plastic	Plastic
MATERIAL / INNER	Plastic	Plastic
OVERALL LENGTH	125 ± 2 mm	125 ± 2 mm
OUTER DIAMETER	37/38 mm	37/38 mm
OVERALL WEIGHT	100 + 5 g	100 + 5 g
COMPATIBILITY	37/38mm Anti-riot Launchers 40mm Grenade Launchers	37/38mm Anti-riot Launchers 40mm Grenade Launchers
OPTIONAL EFFECT	Barite powder	CS Chemical Powder Color Powder
SOUND LEVEL	160 dB at 5 feet	160 dB at 5 feet
DELAY TIME	2 ~ 3 sec (Adjustable)	2 ~ 3 sec (Adjustable)
EFFECTIVE RANGE	70 ~ 100 meter	70 ~ 100 meter
WATERPROOF	Lacquer Coated Primer & Sealed Top	Lacquer Coated Primer & Sealed Top
PACKING	Each in impermeable plastic bag 100rounds / Carton Box 352 x 352 x 288mm Net 22kg / Gross 24kg DG Class 1.4S / UN No. 0012	

The packing detail is subject to change.

# 37/38mm

## CS TEAR GAS CARTRIDGE

### *CS Tear Gas Emission*



<b>MODEL NO</b>	<b>CCS-40C-38</b>
<b>MATERIAL / OUTER</b>	Aluminum
<b>MATERIAL / INNER</b>	Aluminum
<b>OVERALL LENGTH</b>	120 ± 2mm
<b>OUTER DIAMETER</b>	37/38 mm
<b>OVERALL WEIGHT</b>	200 ± 10g
<b>COMPATIBILITY</b>	37/38mm Anti-riot Launchers 40mm Grenade Launchers (Smooth bore & Rifled one)
<b>CS CONCENTRATION</b>	25% ± 5% (Adjustable by requests)
<b>EMISSION TIME</b>	35 ± 5 sec (Adjustable by requests)
<b>DELAY TIME</b>	2 ~ 3 sec (Adjustable)
<b>OPERATING TEMP</b>	-20 ~ +50 °C
<b>EFFECTIVE RANGE</b>	(Long Range) 120 ~ 160m (Short Range) 60 ~ 80m
<b>WATERPROOF</b>	Lacquer Coated Primer & Sealed Top
<b>PACKING &amp; SHIPPING</b>	Each in impermeable plastic bag 50 rounds / Metallic Drum Dia 310 x 350mm (± 5mm) Gross Weight 13.5kg / Drum DG Class 1.4G / UN No. 0301
The packing detail is subject to change.	

# 40mm

## CS TEAR GAS CARTRIDGE

### *CS Tear Gas Emission*



<b>MODEL NO</b>	<b>CCS-40C-40</b>
<b>MATERIAL / OUTER</b>	Aluminum
<b>MATERIAL / INNER</b>	Aluminum
<b>OVERALL LENGTH</b>	120 ± 2 mm
<b>OUTER DIAMETER</b>	40mm
<b>OVERALL WEIGHT</b>	255 ± 10 g
<b>COMPATIBILITY</b>	By 40mm Grenade Launchers
<b>CS CONCENTRATION</b>	25 ± 5% (Adjustable by requests)
<b>EMISSION TIME</b>	35 ± 5 sec (max) (Adjustable by requests)
<b>DELAY TIME</b>	2 ~ 3 sec (Adjustable)
<b>OPERATING TEMP</b>	-20 ~ +50 °C
<b>EFFECTIVE RANGE</b>	(Long) 120 ~ 160m (Short) 60 ~ 80m
<b>WATERPROOF</b>	Lacquer Coated Primer & Sealed Top
<b>PACKING &amp; SHIPPING</b>	Each in impermeable plastic bag 50 rounds / Metallic Drum Dia 310 x 350mm (± 5mm) Gross Weight 13.5kg / Drum DG Class 1.4G / UN No. 0301

The packing detail is subject to change.

# 37/38mm

## CS TEAR GAS CARTRIDGE

### 3 Sub-munition

### CS Tear Gas Emission



MODEL NO	CCS-40C-383P ( CMC-03 )
MATERIAL / OUTER	Aluminum
MATERIAL / INNER	Aluminum
OVERALL LENGTH	120 ± 2mm
OUTER DIAMETER	37/38 mm
OVERALL WEIGHT	200 ± 10g
COMPATIBILITY	37/38mm Anti-riot Launchers 40mm Grenade Launchers
CS CONCENTRATION	25 ± 5% (Adjustable by requests)
EMISSION TIME	15 ± 5 sec
PROJECTILE WEIGHT	38g ± 2g / EA
OPERATING TEMP	-20 ~ +50 °C
EFFECTIVE RANGE	90 ± 10m
WATERPROOF	Lacquer Coated Primer & Sealed Top
PACKING & SHIPPING	Each in impermeable plastic bag 50 rounds / Metallic Drum Dia 310 x 350mm (± 5mm) Gross Weight 13.5kg / Drum DG Class 1.4G / UN No. 0301
The packing detail is subject to change.	



# 37/38mm

## CS TEAR GAS CARTRIDGE

*5 Sub-munition*  
*CS Tear Gas Emission*



MODEL NO	CCS-40C-385P (CMC-05)
MATERIAL / OUTER	Aluminum
MATERIAL / INNER	Aluminum
OVERALL LENGTH	142 ± 2 mm
OUTER DIAMETER	37/38 mm
OVERALL WEIGHT	220 ± 5 g
COMPATIBILITY	37/38mm Anti-riot Launchers 40mm Grenade Launchers
CS CONCENTRATION	25 ± 5% (Adjustable by requests)
EMISSION TIME	10 ± 5 sec
PROJECTILE WEIGHT	29 ± 2 g / EA
OPERATING TEMP	-20 ~ +50 °C
EFFECTIVE RANGE	80 ± 10m
WATERPROOF	Lacquer Coated Primer & Sealed Top
PACKING & SHIPPING	Each in impermeable plastic bag 50 rounds / Metallic Drum Dia 310 x 350mm (± 5mm) Gross Weight 13.5kg / Drum DG Class 1.4G / UN No. 0301
The packing detail is subject to change	

## 37/38mm RUBBER BALL CARTRIDGE



<b>MODEL NO</b>	<b>CTR 3B ~ CTR 62B</b>
<b>MATERIAL / OUTER</b>	Plastic
<b>OVERALL LENGTH</b>	120 ± 2 mm
<b>OUTER DIAMETER</b>	37/38mm
<b>OVERALL WEIGHT</b>	100 ~ 130 g (3B: 128 ± 2 g / 28B: 118 ± 2 g / 62B: 126 ± 2 g)
<b>COMPATIBILITY</b>	37/38mm Anti-riot Launchers 40mm Grenade Launchers
<b>NO OF RUBBER BALLS</b>	3 Batons ~ 62 Balls (By request)
<b>MAXIMUM RANGE</b>	50 meter
<b>EFFECTIVE RANGE</b>	10 ~ 30 meter
<b>WATERPROOF</b>	Lacquer Coated Primer & Sealed Top-
<b>PACKING &amp; SHIPPING</b>	Each in impermeable plastic bag 100rounds / Carton Box 352 x 352 x 288mm Net 22kg / Gross 24kg DG Class 1.4S / UN No. 0012
The packing detail is subject to change	

# 40mm RUBBER FOAM IMPACT

## *Spin Stabilizing*



<b>MODEL NO</b>	<b>CTI 40</b>
<b>DIAMETER</b>	40 ± 1 mm
<b>OVERALL LENGTH</b>	100 ± 3 mm
<b>OVERALL WEIGHT</b>	82 ± 3 g
<b>PROJECTILE WEIGHT</b>	50 ± 2 g
<b>MATERIAL / OGIVE</b>	Silicone Rubber
<b>MATERIAL / FILLER</b>	Polyurethane Foam
<b>MATERIAL / SKIRT</b>	Engineering Plastic (with Rotating Band)
<b>EFFECTIVE RANGE</b>	20 ~ 27m
<b>COMPATIBILITY</b>	By M79, M203 (40mm Rifled Barrel)
<b>MUZZLE VELOCITY</b>	max 85 m/sec (@6.1m)
	Adjustable by customer's request
<b>CARTRIDGE CASE ASSEMBLY</b>	Engineering Plastic Composite
	Smokeless Powder (Double Base)
	Percussion Primer
<b>IMPACT ENERGY</b>	max 125J
	Adjustable by customer's request
<b>TEMP / FIRING</b>	-20°C ~ +40°C
<b>TEMP / STORAGE</b>	-20°C ~ +40°C
<b>PACKING &amp; SHIPPING</b>	Each in impermeable plastic bag 72rounds / Wooden Box 373 x 339 x 291mm Gross 24kg DG Class 1.4S / UN No. 0012
The packing detail is subject to change	

# SMOKE GRENADES

## Signal Purpose Color Smoke



MODEL NO	KM 18	KM 8
TYPE	Combustion/ Color Smoke	Combustion/ White Smoke
MATERIAL / BODY	Sheet Metal	Sheet Metal
MATERIAL / FUZE	KM201A1	KM201A1
OVERALL LENGTH	145 ± 5 mm	145 ± 5 mm
OUTER DIAMETER	63 ± 1 mm	63 ± 1 mm
OVERALL WEIGHT	450 ± 5 g	680 ± 5 g
DELAY TIME	0.7 ~ 2 sec	0.7 ~ 2 sec
EMISSION TIME	50 ~ 90 sec	105 ~ 150 sec
COLOR	Violet, Red, Green, Yellow, Blue, Orange	White
PACKING & SHIPPING	Each in paper tube 16 rounds / Wooden Box 400 x 350 x 350mm Net 8.5 kg / Gross 18 kg Net 11.5 kg / Gross 22 kg (White) DG Class 1.4G / UN No. 0303	
The packing detail is subject to change		

# SMOKE GENERATOR

## *Signal Purpose Color Smoke*



MODEL NO	CSG-W
TYPE	Combustion/ Smoke
MATERIAL / BODY	Sheet Metal
MATERIAL / FUZE	K-M201A1
OVERALL LENGTH	147 ± 1mm
OUTER DIAMETER	63 ± 1mm
OVERALL WEIGHT	710 ± 5g
DELAY TIME	0.7 ~ 2 sec
EMISSION TIME	3 ~ 4 minutes
COLOR	Violet, Red, Green, Yellow, Blue, Orange White
PACKING & SHIPPING	Each in Paper tube 16 rounds / Wooden Box 400 x 350 x 350mm Net 11.5 kg / Gross 22 kg (White) DG Class 1.4G / UN No. 0303
The packing detail is subject to change	

# SMOKE GRENADES

## Signal Purpose Color Smoke



<b>MODEL NO</b>	<b>CSG-48W</b>
<b>TYPE</b>	Combustion
<b>MATERIALAL / BODY</b>	Aluminum
<b>MATERIALAL / FUZE</b>	KM201A1 Type
<b>OVERALL LENGTH</b>	134 ± 5 mm
<b>OUTER DIAMETER</b>	48 ± 2 mm
<b>OVERALL WEIGHT</b>	315 ± 10 g
<b>COMPATIBILITY</b>	Hand Grenade
<b>SMOKE CHEMICAL</b>	White Smoke
<b>EMISSION TIME</b>	35 ± 5 sec
<b>DELAY TIME</b>	0.7 ~ 2 sec
<b>OPERATING TEMP</b>	-20 ~ +50 °C
<b>PACKING</b>	Each in impermeable plastic bag
The packing detail is subject to change	40rounds / Carton Box
	DG Class 1.4G / UN No. 0303

# SMOKE GRENADES

*Signal Purpose Color Smoke*  
*Compact Type*



<b>MODEL NO</b>	<b>CSG-38W</b>
<b>TYPE</b>	Combustion
<b>MATERIALAL / BODY</b>	Aluminum
<b>MATERIALAL / FUZE</b>	KM201A1 Type
<b>OVERALL LENGTH</b>	127 ± 5 mm
<b>OUTER DIAMETER</b>	38 ± 2 mm
<b>OVERALL WEIGHT</b>	135 ± 10 g
<b>COMPATIBILITY</b>	Hand Grenade
<b>SMOKE CHEMICAL</b>	White Smoke
<b>EMISSION TIME</b>	30 ± 5 sec
<b>DELAY TIME</b>	0.7 ~ 2 sec
<b>OPERATING TEMP</b>	-20 ~ +50 °C
<b>PACKING</b>	Each in impermeable plastic bag
The packing detail is subject to change	40rounds / Carton Box
	DG Class 1.4G / UN No. 0303

# FLASH BANG

## Sound & Flash Hand Grenade



MODEL NO	CSB-1B	CSB-3B
TYPE	One (1) Sound	Three (3) Sound
MATERIAL/BODY	Aluminum	Aluminum
SAFETY	Double Safety Lock / Safety Clip & Safety Pin	
OVERALL LENGTH	128 ± 5 mm	136 ± 5 mm
OUTER DIAMETER	45 ± 5 mm	48 ± 5 mm
OVERALL WEIGHT	340 ± 10 g	465 ± 10 g
SOUND EFFECT	170 +/- 10dB at Five(5) feet	
DELAY TIME	1.5 ~ 3 sec (Adjustable)	
FLASH LIGHT	5 million CP	4~ 5 million CP
PACKING	Each in impermeable plastic bag 40rounds / Wooden Box 390 x 315 x 315mm (1Bang) 360 x 285 x 348mm (3 Bang) DG Class 1.4S / UN No. 0110	
	Net 14kg Gross 18kg	Net 15kg Gross 18.3kg

►Package Information: subject to change without notification

►Sound only STUN GRENADE is available without Flash.



# FLASH BANG

## Sound & Flash Hand Grenade



MODEL NO	CSB-7B	CSB-9B
TYPE	Seven (7) Sound	Nine (9) Sound
MATERIAL/BODY	Aluminum	Aluminum
SAFETY	Double Safety Lock / Safety Clip & Safety Pin	
OVERALL LENGTH	140 +/- 5mm	140 +/- 5mm
OUTER DIAMETER	50 +/- 5mm	50 +/- 5mm
OVERALL WEIGHT	520 +/- 15g	490 +/- 15g
SOUND EFFECT	170 +/- 10dB at Five(5) feet	
DELAY TIME	1.5 ~ 3 sec (Adjustable)	
FLASH LIGHT	1.5 million CP	

### PACKING

The packing detail is subject to change

Each in impermeable plastic bag  
 40rounds / Wooden Box  
 402 x 301 x 401mm  
 DG Class 1.4S / UN No. 0110  
 Gross 37kg (7 Bang)      36kg (9Bang)

- Package Information: subject to change without notification
- Sound only STUN GRENADE is available without Flash.

# ANTI-RIOT LAUNCHER

*Single (1) Shot*



MODEL NO	SJ 101	SJ 102	SJ 103
CALIBER	38mm	38mm	40mm
MATERIAL / BODY	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
MATERIAL / GRIP	Synthetic (Hand Grip)		
FEATURE	Top Open System Safety Lock System Foldable Butt Stock	Top Open System Safety Lock System Foldable Butt Stock <b>Double Action System</b>	Top Open System Safety Lock System Foldable Butt Stock
DIMENSION	705mm (Total Length) 450mm (Butt Folded) Barrel 300mm	694mm (Total Length) 425mm (Butt Folded) Barrel 280mm	705mm (Total Length) 450mm (Butt Folded) Barrel 300mm
FIRE DISTANCE	80 ~ 160m	80 ~ 160m	80 ~ 160m
WEIGHT	1.8 kg	1.8 kg	1.8 kg
PACKING	6 ea / Carton box 530 x 520 x 250mm Gross 14.3 Kg		
The packing detail is subject to change			

# ANTI-RIOT LAUNCHER

## *Six (6) Shot Multiple Launcher*



MODEL NO	SJ 600N	SJ 604
CALIBER	38mm	40mm
MATERIAL / BODY	Aluminum Alloy	Aluminum Alloy
FEATURE	Top Open System Safety Lock System	Top Open System Safety Lock System
DIMENSION	Overall 720mm Barrel 240mm	Overall 720mm Barrel 240mm
FIRE DISTANCE	80 ~ 150m	80 ~ 150m
WEIGHT	4.0 kg	4.0 kg
PACKING	4 ea / Strong Carton box 840 x 550 x 265mm Gross 20.5Kg	
The packing detail is subject to change		

► *OPTION: Red dot sight / CBS Collapsible Butt Stock.*

# ANTI-RIOT LAUNCHER

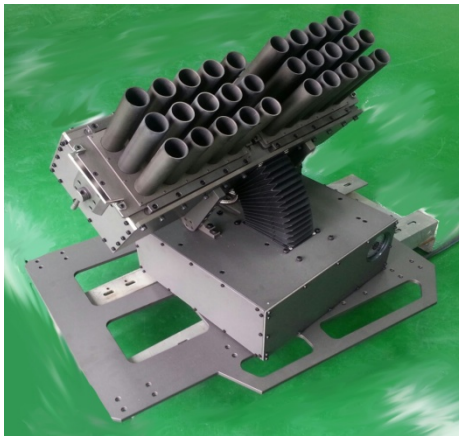
## *Double-Action (2) Shot*



MODEL NO	CLD-S381
CALIBER	37/38mm Smooth Bore
ACTION	Break Open, Double-Action Two(2) Shot Over/Under Design
MATERIAL / BODY	Aluminum Alloy
BARREL	200mm (7.87")
LENGTH	364mm (Folding), 590mm ~ 670mm (4 Steps)
CAPACITY	2 Shots
WEIGHT	2.9 kg
ACCESSORIES	Additional Accessories Are Available.
AMMUNITION	38mm / 40mm CS Cartridge, Rubber Ball Cartridge Plastic or Aluminum / Most of Cartridges are available
PACKING	Soft Case, Strong Carton box
The packing detail is subject to change	

# STARK<sup>®</sup> MACHINE

## Vehicle Mounted Remote Control Type



MODEL NO	STARK <sup>®</sup> -10	STARK <sup>®</sup> -15	STARK <sup>®</sup> -30
TYPE	Ten(10) Shot	Fifteen(15) Shot	Thirty(30) Shot
COMPONENTS	Percussion Type Launcher Machine Shooting Barrel (Cartridge) IR Camera Controller Recording Device (Option)		
MAIN MATERIAL	Anodized Aluminum Alloy		
SIZE	407 x 517 x 441mm	407 x 499 x 517 mm	498 x790 x 517 mm
WEIGHT / BODY	30 kg	60 kg	100 kg
WEIGHT / BARREL	3.2 kg x 1 ea	4.5 kg x 1 ea	4.5 kg x 2 ea
POWER	12V (DC) or 24V(DC-Option) (Battery of Vehicle acceptable, No need additional battery)		
MOVEMENT	Vertical angle -5° ~ 70° / Horizontal angle 350°		
FIRING SYSTEM	Mechanical Percussion		
AMMUNITION	38mm / 40mm CS Cartridge, Rubber Ball Cartridge Plastic or Aluminum / Most of Cartridges are available		
Packing	One full set / Wooden Box, Excluding Installation Bracket		
	950x850x800mm Net33kg / Gross73kg	950x850x800mm Net77kg / Gross117kg	1100x1000x900mm Net140kg / Gross175kg

# STING®-15R

## Automatic Grenade Launcher

*with Remote Control*



<b>MODEL NO</b>	<b>STING®-15R</b>
<b>TYPE</b>	Fifteen (15) Shot Single (1) shot & Five (5) shot & Fifteen (15) shot
<b>CALIBER</b>	37/38mm & 40mm (Smooth Bore)
<b>COMPONENTS</b>	Percussion Type Launcher Machine Shooting Barrel (Cartridge) IR / Camera Remote Controller DVR (Recording) : SD Card Display : 10.1" AHD Monitor
<b>MAIN MATERIAL</b>	Anodized Aluminum Alloy / Steel
<b>SIZE</b>	422 x 377 x 394 mm
<b>WEIGHT / BODY</b>	24 kg (About)
<b>WEIGHT / BARREL</b>	4 kg x 1 ea
<b>POWER</b>	12V (DC)                      * Option : 24V (DC) (Battery of Vehicle acceptable, No need additional battery)
<b>MOVEMENT</b>	Vertical angle -5° ~ 45° / Horizontal angle 350°
<b>FIRING SYSTEM</b>	Motor Type Mechanical Percussion
<b>AMMUNITION</b>	37/38mm CS Cartridge, Rubber Ball Cartridge Plastic or Aluminum / Most of Cartridges are available
<b>PACKING</b>	One full set / Wooden Box, Excluding Installation Bracket Net 32kg / Gross 44kg

The packing detail is subject to change.

The above all specifications are subject to change according to conditions.

