

VENOM® MULTI-CALIBER

The patent pending VENOM® MC Launching System is a lightweight, high capacity Multi-caliber non-lethal grenade launching system. The VENOM® MC, with its patent pending electronic fire control system and rapid re-load cassette system, is fully interchangeable for use on vehicles, tripod mounts, Common Remotely Operated Weapon Stations (CROWS) and static installations.



V1040

Deployed remotely or with direct “tethered” fire on land and marine platforms, the VENOM® MC delivers a variety of different caliber grenades of varying payloads from high payload multi-submunition 37mm grenades, through long range and very accurate spin stabilized 40mm grenades upto high payload single munition 66mm grenades, all from the same launcher platform. The payloads run the spectrum of non-lethal responses from flash and sound distraction, smoke obscuration, fast obscuration, smoke irritant, and blunt trauma individual or combination effects to OC vapor grenades. These effects support **escalation of force, early warning & determination of intent, crowd dispersal and area denial objectives.**

The VENOM® MC is modular and is available in single, double and triple bank configurations. Each bank can launch ten (10) 37mm or 40mm grenades, and five (5) 66mm grenades. Reload time is identical for each



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caliber and the unique aspect of the system is that upon firing of up to ten 40mm grenades out to distances as far as 1500 meters, within a matter of seconds a cassette of five 66mm grenades can be loaded and launched out to distances from 25 meters to 350 meters, for delivery of a mission specific high payload grenade capability.



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VARIABLE RANGE PAYLOAD OPTIONS:

MULTI-7 SMOKE

Seven Smoke Submunitions, Max Range to 160m at 30° Launch Elevation (37mm)

SUPER LONG RANGE (SLR) SMOKE OR IRRITANT SMOKE (CS)

Single Smoke Submunition, Max Range to 450m at 30° Launch Elevation(40mm)

STINGBALL GRENADE

90 .60 caliber Stingballs Max Range to 20m at 10° Launch Elevation (40mm)

EXTENDED RANGE WARNING MUNITION (ERWM)

Single Aerial Flash-Bang, Max Range to 1000m at 30° Launch Elevation (40mm)

MULTI-4 FLASH-BANG

Four Aerial Flash-Bangs, Max Range to 100m at 30° Launch Elevation (37mm)

SINGLE HIGH CAPACITY SMOKE OR IRRITANT SMOKE (CS)

Single launched grenade, Max Range to 200m 30° Launch Elevation (66mm)

SINGLE HIGH CAPACITY OC VAPOR

Single launched grenade, deploying an invisible OC (pepper) vapor.
Max Range to 150m 30° Launch Elevation (66 mm)

SINGLE HIGH CAPACITY FAST OBSCURATION GRENADE (FOG)

Single launched grenade, deploying a dense black or white non-pyrotechnic obscurant. Max Range to 150m 30° Launch Elevation (66mm)

SINGLE HIGH CAPACITY OC VAPOR

Single launched grenade, deploying an invisible OC (pepper) vapor. Max Range to 150m 30° Launch Elevation (66mm)

SINGLE HIGH CAPACITY FLASH BANG GRENADE

Single launched flash bang grenade. Max Range to 75m 30° Launch Elevation (66mm)

SINGLE HIGH CAPACITY STINGBALL GRENADE

Single launched Stingball grenade. Max Range to 75m 30° Launch Elevation (66mm)

VENOM® MC PRODUCT SPECIFICATIONS

VENOM® MC (Multi-Caliber)
Non-Lethal Tube Launch Munition System (NLTS)

CAPABILITIES

- Hail and Warn
- Smoke Obscuration
- Temporary Incapacitation
- Blunt Trauma Kinetic Energy
- Rapid Obscuration

MOUNTING INTERFACES

- May be hard mounted to various platforms, including vehicles, shields, weapons stations and tripods.

FIRING PERFORMANCE

- Single Round, Automatic firing

DIMENSIONS (SINGLE BANK)

Height: 10.26" (including locking handle) OR
7.00" not including handle

Width: 15.89"

Depth: v17.70"

Unloaded Weight: 27 lbs.

Loaded Weight: Max 33 lbs. (munition dependent)

Internal Power: 9 Volt Alkaline Battery (1 year life)

Auxiliary Power Option: 12-24 Volts

Operating Temp: -25 to +175 F

Shock Resistance: 100 Shocks of 2000g Force

Humidity Range: 0 to 95%

INPUT CONNECTIONS

- Controlled through hand controller
- IP Addressable

FIRE CONTROL

- COTS Hand Controller – Semi or Full Automatic
- Customized Remote Interface

SYSTEM SAFETY

- Master Arm Switch
- Ready Trigger
- Single Pole Double Throw fire button
- Shielded Input Cable
- Shielded Electronics Assembly

*Best practices shall be employed to reduce the Hazards of Electromagnetic Radiation and Electro-Static Discharge. Safe handling procedures consistent with those used for standard percussion primers should be followed.

Sample of VENOM MC Munitions & Effects

		Area/Impact Type Rounds	Operational Range							Operational Usage	
			Effects		Elevation Angle (degrees)						
					5	10	15	20	25		30
1	Multi 7 Smoke	7 Smoke pellets, each with burn time of approximately 30+/-10 seconds (ignite at muzzle)	Low muzzle velocity (very low Ballistic Coefficient) impact area dependent upon muzzle elevation		80-100m	105-125m	130-150m	135-155m	140-160m	•Delivery of high payload (seven projectiles) of irritant (CS) or obscuration smoke over a wide area from the given distance •Delivery of smoke as a deterrent or determination of intent or warning capability to unknown approaching vehicles or persons	
2	Super Long Range Smoke	Single spin stabilized smoke projectile with burn time of 20+/-5 seconds (begin emmission 3 seconds from muzzle)	Medium muzzle velocity-impact area dependent upon muzzle elevation	150m	250m	320m	380m	425m	450m	•Delivery of single projectile of irritant (CS) or obscuration smoke over a wide area from the given distance •Delivery of smoke as a deterrent or determination of intent or warning capability to unknown approaching vehicles or persons	

		Aerial burst/Time Type Delay Rounds	Operational Range							Operational Usage	
			Effects		Elevation Angle (degrees)						
					5	10	15	20	25		30
3	Extended Range Warning Munitions (ERWM)	Single spin stabilized flash bang projectile with greater than 4 million candela and 170 dB overpressure	Low muzzle velocities up to 300m, increasing to around 650 fps for 1000m round (time delays from 1 to 10 seconds). Minimum elevation is needed to ensure aerial burst.	100m	200m	300m	500m	750m	1000m	•Delivery of a single warning/determination of intent capability at varying distances out to extended stated ranges	
4	M4094 Multi 4 Flash Bang	4 flash bang submunitions, each with greater than 1 million candela and 165 dB overpressure	Low muzzle velocity-4 flash bang submunitions (time delays from 1 to 4 seconds) with very low Ballistic Coefficient. Muzzle elevation affects burst height to greater extent than range.		40-85m	40-90m	45-95m	45-100m	45-100m	•Delivery of four flashbang submunitions in a vertical pattern perpendicular to the ground with the highest/uppermost munition deflagrating first and the lowest munition deflagrating last •Use in crowd control, vehicle, vessel and check point escalation of force scenarios as the pre-lethal option	

*The VENOM® MC is designed for full or partial integration onto remote weapon stations.

