



# CITY OF VACAVILLE

POLICE DEPARTMENT



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## Vacaville Police 2024 Controlled Equipment Report

January 1, 2024 to December 31, 2024





## **PURPOSE**

On September 30, 2021, Assembly Bill 481 (AB 481) was codified in Government Code sections 7070 through 7075. AB 481 required the governing body of a law enforcement agency to adopt a “military equipment use” policy no later than May 1, 2022. The Vacaville Police Department complied with AB 481 through the following:

- Developed and adopted a military equipment use policy (Lexipol Policy #709)
- Authored a military equipment report for 2022.
- Made the military equipment list available on the department’s website prior to holding a well-publicized community meeting which allowed for public discussion and questions.
- Presented the policy to City Council who, in turn, approved the use of all military equipment through the adoption of the policy via ordinance.

As a result of AB 481, Government Code section 7072 requires law enforcement agencies to present an annual report to their governing body which details the following;

- (1) The use of the equipment and purpose of use
- (2) Any complaint(s) or concern(s) regarding the use of the equipment
- (3) The results of any internal audits on the use of the equipment, any information about violations of the military equipment use policy, and any actions taken in response.
- (4) The annual costs associated with the equipment; including acquisition, personnel, training, transportation, maintenance, storage, upgrade, other ongoing costs, and funding source for the equipment.
- (5) The quantity possessed for each type of equipment and
- (6) The intention to purchase additional equipment not previously approved in the following year.

The intent of this report is to satisfy the above listed reporting requirements outlined in Government Code 7072.

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## Controlled Equipment Categories

Assembly Bill 481 Created Government code section 7070 which designates 15 categories of items deemed “military” or more accurately defined as controlled equipment:

*	<b>Category 1:</b>	Unmanned, remotely piloted, powered aerial or ground vehicles
*	<b>Category 2:</b>	Mine-resistant ambush-protected vehicles or armored personnel carriers
*	<b>Category 3:</b>	High mobility multipurpose wheeled vehicles (HMMWV), two-and-one-half-ton trucks, five-ton trucks, or wheeled vehicles that have a breaching or entry apparatus attached
	<b>Category 4:</b>	Tracked armored vehicles that provide ballistic protection to their occupants
*	<b>Category 5:</b>	Command and control vehicles that are either built or modified to facilitate the operational control and direction of public safety units
	<b>Category 6:</b>	Weaponized aircraft, vessels, or vehicles of any kind
*	<b>Category 7:</b>	Battering rams, slugs, and breaching apparatuses that are explosive in nature
	<b>Category 8:</b>	Firearms and ammunition of .50 caliber or greater, excluding standard-issue shotguns and standard-issue shotgun ammunition
*	<b>Category 9:</b>	Specialized firearms and ammunition of less than .50 caliber, including firearms and accessories identified as assault weapons in Penal Code § 30510 and Penal Code §30515, with the exception of standard-issue handguns
*	<b>Category 10:</b>	Any firearm or firearm accessory that is designed to launch explosive projectiles
*	<b>Category 11:</b>	Noise-flash diversionary devices and explosive breaching tools
*	<b>Category 12:</b>	Munitions containing tear gas or OC, excluding standard, service-issued handheld pepper spray
	<b>Category 13:</b>	TASER® Shockwave, microwave weapons, water cannons, and long-range acoustic devices
*	<b>Category 14:</b>	Kinetic energy weapons and munitions
	<b>Category 15:</b>	Any other equipment as determined by a governing body or a state agency to require additional oversight

\* Identifies controlled equipment categories previously and unanimously approved by the controlling governing body (City Council).



## **CONSIDERATIONS**

The AB481-reportable equipment inventory pages contained within this document were compiled during the last quarter of calendar year 2024. It is important to note that inventory can change daily for some equipment items, making the creation of an accurate and up-to-date inventory list an impractical task.

With respect to costs, funding, annual upkeep expenses and estimated effective lifespan, every effort has been made to be as accurate as possible while at the same time acknowledging that many factors directly affecting those aforementioned values are unpredictable or difficult, if not possible, to calculate. Costs associated with the listed equipment in this report represent the best estimates at the time this document was prepared. Many of these items are not purchased from manufacturers, but from dealers, who adjust costs in accordance with market factors beyond the predictive abilities or control of the Vacaville Police Department. Variables such as availability, the health of national and global financial markets and ever-changing costs associated with taxes, fees and shipping costs can cause equipment costs to vary significantly.

Due to the unpredictable nature of the law enforcement profession, many of the item upkeep costs and effective lifespans are best estimates and may vary greatly on a year-to-year basis. This is in large part, due to the availability of training, type of operational incidents, exposure to various conditions or environments, unpredictable wear-and-tear, technological advancements and requirements, or other factors.

Some items listed may be carried over in inventory year to year, depending on operational/training tempo. This includes “consumable” items such as chemical agent munitions and ammunition.

With respect to terminology, “consumable” items are items that typically have a one-time use and then cannot be used again, such as chemical agent munitions, smoke grenades, explosive materials, or ammunition.

In an effort to be as efficient as possible, many items, both “consumable” and otherwise have operational applications across a diverse set of the Vacaville Police Department’s missions. For example, the single shot 40mm launcher platform is a tool utilized by Patrol, SWAT, Mobile Field Force and other auxiliary assignments. The cost and unit allocation estimates listed for some items may represent those for numerous divisions within the Vacaville Police Department.

Additionally, there are costs for non-AB 481 equipment that are intrinsically tied to the costs for the the AB 481 items. For example, slings, carrying cases, magazines, sighting systems, flashlights, cleaning supplies, batteries and other non-AB 481 reportable items are not included in the cost estimations, unit allocation, or maintenance estimates listed in this report.

It should also be noted that the state legislature has designated the items listed in this report as “military equipment”. While the military may use some of the same equipment listed in this report, the Vacaville Police Department unequivocally deems all listed equipment as law enforcement equipment. Much the same as the military using handcuffs, there are items in common, the manner and reason they are used is significantly different. All equipment listed in this report is currently being used by other contemporary law enforcement agencies throughout California and the nation. None of the items listed in this report are extraordinary in nature or unique to the Vacaville Police Department.



For many years, the Vacaville Police Department has made community engagement and education a top priority. Much of the equipment listed in this report is routinely on display for the public through various community outreach events, tours, and spontaneous community engagement opportunities during which public discussion, questions, and dialogue is expressly encouraged.

Lastly, all of the equipment in this report was previously approved for use by the Vacaville City Council.

## **Audits – Complaints – Violations of Policy**

In 2024, the Vacaville Police Department did not receive any complaints or concerns regarding the use of equipment detailed in this report. Likewise, there were no known violations of the military equipment use policy.

## **Current Inventory of Controlled Equipment**

The Vacaville Police Department is committed to remaining transparent about the department’s controlled equipment inventory and the sharing of the equipment’s capabilities, uses, and other related information with our community and elected officials. The data in this report is accurate as of December of 2024, however, inventory may have fluctuated by the time of this report’s publication.

The inventory of controlled equipment, particularly consumable material (ammunition, explosives, diversionary devices, less lethal munitions, etc.) may fluctuate due to a variety of factors including but not limited to operational usage, training, operational deterioration, maintenance, expiration, and replenishment guidelines.

(\*NOTE: The descriptions and source photos contained in this report are for controlled equipment descriptive purposes only and are not an endorsement by the City of Vacaville or the Vacaville Police Department of a product or vendor. Many of the photos are “stock” vendor images and may not be an exact likeness of the equipment referenced)

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## Category 1: Unmanned, remotely piloted, powered aerial or ground vehicles.

### DJI Mavic 2 Enterprise Zoom (Ranger 1)



<b>Description</b>	Commercial UAS
<b>Quantity</b>	1
<b>Capability</b>	Fly, hover, broadcast video, record video, photography
<b>Life Span</b>	UAS devices need to be upgraded as software becomes obsolete by vendors.
<b>Manufacturer's Desc.</b>	Commercial grade UAS equipped with 4k capable camera. Multi Still Photography modes and 31 min. max flight time.
<b>Purpose</b>	Provide aerial support for law enforcement operations.
<b>Authorized Usage</b>	Investigative, assist SWAT commanders with live video feed of tactical operations, assist patrol with perimeter security, search and rescue to locate missing people.
<b>Costs</b>	Initial cost: \$3,500 Re-occurring costs: \$100-\$500 (replacement parts, drone repairs as needed)
<b>Required Training</b>	FAA certification to obtain Part-107 UAS license, continuous on the job training.
<b>Authority of Authorized Use</b>	Certificate of Authority issued by FAA # 107W-2017-04468 Vacaville Police Department Policy 613 FAA Part-107 holder and completion of FAA licensing requirement



## DJI Mavic 2 Enterprise Advanced (Ranger 2 & 3)



<b>Description</b>	Commercial UAS
<b>Quantity</b>	2
<b>Capability</b>	Fly, hover, broadcast video, record video, photography, advanced FLIR capabilities
<b>Life Span</b>	UAS devices need to be upgraded as software becomes obsolete by vendors.
<b>Manufacturer's Desc.</b>	Commercial grade UAS equipped with 4k capable camera. Multi Still Photography modes and 31 min. max flight time.
<b>Purpose</b>	Provide aerial support for law enforcement operations.
<b>Authorized Usage</b>	Investigative, assist SWAT commanders with live video feed of tactical operations, assist patrol with perimeter security, search and rescue to locate missing people
<b>Costs</b>	Initial cost: \$6,500 (per drone) Re-occurring costs: \$100-\$500 (replacement parts, drone repairs as needed)
<b>Required Training</b>	FAA certification to obtain Part-107 UAS license, continuous on the job training
<b>Authority of Authorized Use</b>	Certificate of Authority issued by FAA # 107W-2017-04468 Vacaville Police Department Policy 613 FAA Part-107 holder and completion of FAA licensing requirement



## DJI Mavic 2 Enterprise Dual (Ranger 4)

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<b>Description</b>	Commercial UAS
<b>Quantity</b>	1
<b>Capability</b>	Fly, hover, broadcast video, record video, photography, FLIR
<b>Life Span</b>	UAS devices need to be upgraded as software becomes obsolete by vendors.
<b>Manufacturer's Desc.</b>	Commercial grade UAS equipped with 4k capable camera. Multi Still Photography modes and 31 min. max flight time.
<b>Purpose</b>	Provide aerial support for law enforcement operations.
<b>Authorized Usage</b>	Investigative, assist SWAT commanders with live video feed of tactical operations, assist patrol with perimeter security, search and rescue to locate missing people.
<b>Costs</b>	Initial cost: \$3,500 Re-occurring costs: \$100-\$500 (replacement parts, drone repairs as needed)
<b>Required Training</b>	FAA certification to obtain Part-107 UAS license, continuous on the job training
<b>Authority of Authorized Use</b>	Certificate of Authority issued by FAA # 107W-2017-04468 Vacaville Police Department Policy 613 FAA Part-107 holder and completion of FAA licensing requirement.



## DJI Mavic Pro (Ranger 5 – 8)



<b>Description</b>	Commercial UAS
<b>Quantity</b>	5
<b>Capability</b>	Fly, hover, record video, photography
<b>Life Span</b>	UAS devices need to be upgraded as software becomes obsolete by vendors.
<b>Manufacturer's Desc.</b>	Commercial grade UAS equipped with 4k capable camera. Multi Still Photography modes and 27 min. max flight time.
<b>Purpose</b>	Provide aerial support for law enforcement operations.
<b>Authorized Usage</b>	Investigative, assist SWAT commanders with live video feed of tactical operations, assist patrol with perimeter security, search and rescue to locate missing people.
<b>Costs</b>	Initial cost: \$1,000 (per drone) Re-occurring costs: \$100-\$500 (replacement parts, drone repairs as needed) Year obtained: 2017 How was it bought: Police Department budget funds
<b>Required Training</b>	FAA certification to obtain Part-107 UAS license, continuous on the job training
<b>Authority of Authorized Use</b>	Certificate of Authority issued by FAA # 107W-2017-04468 Vacaville Police Department Policy 613 FAA Part-107 holder and completion of FAA licensing requirement.



## DJI Mini 3 Pro



DJI Mini 3 Pro	
<b>Description</b>	Commercial UAS
<b>Quantity</b>	8
<b>Capability</b>	Fly, hover, record video, operator can view video in live time, photography
<b>Life Span</b>	UAS devices need to be upgraded as software becomes obsolete by vendors.
<b>Manufacturer's Desc.</b>	Commercial grade UAS equipped with 4k capable camera. Multi Still Photography modes and 30 min. max flight time.
<b>Purpose</b>	Used to clear interior spaces prior to any officers making entry.
<b>Authorized Usage</b>	Investigative, assist SWAT commanders with live video feed of tactical operations, assist patrol with interior searches, search and rescue to locate missing people.
<b>Costs</b>	Initial cost: \$600 Re-occurring costs: \$100-\$500 (replacement parts, drone repairs as needed)
<b>Required Training</b>	FAA certification to obtain Part-107 UAS license, continuous on the job training
<b>Authority of Authorized Use</b>	Certificate of Authority issued by FAA # 107W-2017-04468 Vacaville Police Department Policy 613 FAA Part-107 holder and completion of FAA licensing requirement.



## DJI AVATA 2

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DJI AVATA 2	
<b>Description</b>	Commercial UAS
<b>Quantity</b>	4
<b>Capability</b>	Fly, hover, record video, operator can view video in live time, photography
<b>Life Span</b>	UAS devices need to be upgraded as software becomes obsolete by vendors.
<b>Manufacturer's Desc.</b>	Commercial grade UAS equipped with 4k capable camera. Multi Still Photography modes and FPV goggle ability.
<b>Purpose</b>	Used to clear interior spaces prior to any officers making entry.
<b>Authorized Usage</b>	Investigative, assist SWAT commanders with live video feed of tactical operations, assist patrol with interior searches, search and rescue to locate missing people
<b>Costs</b>	Initial cost: \$1000 Re-occurring costs: \$100-\$500 (replacement parts, drone repairs as needed)
<b>Required Training</b>	FAA certification to obtain Part-107 UAS license, continuous on the job training.
<b>Authority of Authorized Use</b>	Certificate of Authority issued by FAA # 107W-2017-04468 Vacaville Police Department Policy 613 FAA Part-107 holder and completion of FAA licensing requirement.



## DJI MATRICE 350



<b>DJI MATRICE 350</b>	
<b>Description</b>	Commercial UAS
<b>Quantity</b>	1
<b>Capability</b>	Fly, hover, record video, operator can view video in live time, photography.
<b>Life Span</b>	UAS devices need to be upgraded as software becomes obsolete by vendors.
<b>Manufacturer's Desc.</b>	Commercial grade UAS equipped with HD / night vision FPV camera.
<b>Purpose</b>	To be used in the Drone First Responder (DFR) program.
<b>Authorized Usage</b>	To be used in the Drone First Responder (DFR) program by specifically trained DFR operators.
<b>Costs</b>	The DFR has an annual cost of approximately \$307,000 (lease program).
<b>Required Training</b>	FAA certification to obtain Part-107 UAS license, continuous on the job training.
<b>Authority of Authorized Use</b>	Certificate of Authority issued by FAA # 107W-2017-04468 Vacaville Police Department Policy 613 FAA Part-107 holder and completion of FAA licensing requirement.



## Transcend Robotics Vantage Robot



<b>Description</b>	Automated tread Robot with Remote Burn Safe
<b>Quantity</b>	1
<b>Capability</b>	Automated stair climbing; night vision camera with FLIR thermal; 25x zoom camera; two-way push-to-talk audio; 100lb. payload capacity; extended working range up to 2,500ft. line of sight and 500ft. non-line of sight; remote-deploy pyrotechnic burn safe. The robot is a de-escalation tool that allows patrol and SWAT teams to visually clear interiors, locate and identify threats from a safe location, and communicate with subjects inside a residence. The remote burn-safe apparatus allows for deployment of hot gas from inside a residence, which is much more effective than deploying gas from an exterior window or door.
<b>Life Span</b>	8-10 years Radio receiver equipment may need to be replaced as the robot ages and software updates; treads, burn safe and moving parts break down over time and may need to be repaired or replaced by the manufacturer.



<b>Manufacturer's Desc.</b>	<ul style="list-style-type: none"> <li>-Double Patented Automatic Stair and Obstacle Climbing Chassis</li> <li>-No frustrating flipper controls, just move forward to climb stairs and obstacles</li> <li>-Cameras:</li> <li>-Drive Camera (Night Vision)</li> <li>-Pan Tilt Zoom (25x zoom, 90/15 degree up/down tilt, auto infrared night vision)</li> <li>-FLIR Thermal</li> <li>~ 3 hours constant driving</li> <li>~ 12 hours monitoring / intermittent driving</li> <li>~ 2,500 ft. LOS / ~500 ft. NLOS</li> <li>-100+ lb. payload</li> <li>-Zero degree turning radius</li> <li>-Turns on carpet</li> <li>-Drives over clothes</li> <li>-Two Way Audio (Push To Talk)</li> <li>-Key Ignition</li> </ul>
<b>Purpose</b>	Used to clear interior spaces prior to any officers making entry with live high-quality video feed. Allows for 2-way communication with suspects and a safer means to deploy pyrotechnic gas inside a building.
<b>Authorized Usage</b>	Investigative, assist SWAT commanders with video feed of tactical operations, assist patrol with interior searches, allows for safer means of deployment of pyrotechnic gas remotely to interiors of buildings
<b>Costs</b>	Initial cost: \$32,356.40
<b>Required Training</b>	Training, setup and ongoing product support provided by Transcend Robotics; continuous on the job training
<b>Authority of Authorized Use</b>	Vacaville Police Department Policy 309 SWAT Policies and Procedures



## Category 2: Mine-resistant ambush protected (MRAP) vehicles or armored personnel carriers

### MRAP

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<b>Description</b>	Large transport vehicle which provides ballistic protection
<b>Quantity</b>	1
<b>Capability</b>	The MRAP is a large mobile armored vehicle used to conduct rescues, transport personnel and equipment, and provide security to the public and officers.
<b>Life Span</b>	Unknown
<b>Manufacturer's Desc.</b>	The Mine Resistant Ambush Protected (MRAP) family of vehicles provides Soldiers with highly survivable multimission platforms capable of mitigating improvised explosive devices, rocket-propelled grenades, explosively formed penetrators, underbody mines and small arms fire threats which produce the greatest number of casualties in Overseas Contingency Operations.



	<p>The Army MRAP enduring fleet is comprised of two primary vehicle platforms, the Mine Resistant Ambush Protected All-Terrain Vehicle (M-ATV) and the MaxxPro Family of Vehicles. This versatile family of vehicles performs the mission roles of Armored Personnel Carrier, Weapons Carrier, Convoy Protection Platform, Key Leader Vehicle, Command Post and Armored Ambulance.</p>
<b>Purpose</b>	<p>The MRAP is a large mobile armored vehicle used to conduct rescues, transport personnel and equipment, and provide security to the public and officers</p>
<b>Authorized Usage</b>	<p>Primary function is to provide protection and a safe means of transportation for the SWAT Team to active scenes and critical incidents. The vehicle can be used by officers on an active scene where there is a ballistic threat to officers and the public.</p>
<b>Costs</b>	<p>MRAP was free. However, we paid \$30,000 for shipping and retrofitting to be ready for police deployment. Yearly maintenance costs \$3,000-\$5,000.</p>
<b>Required Training</b>	<p>Class A driver's license, demonstrated proficiency, and yearly EVOC training. All SWAT operators receive yearly training driving the vehicle and are authorized to do so under emergency situations.</p>
<b>Authority of Authorized Use</b>	<p>SWAT Policies and Procedures and California Vehicle Code.</p>

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**Category 3: High mobility multi-purpose wheeled vehicles (HMMWV), two-and-one-half-ton trucks, five-ton trucks, or wheeled vehicles that have a breaching or entry apparatus attached**

**2022 Lenco BearCat G2**



<b>Description</b>	The Lenco BearCat is a purpose-built armored vehicle designed to safely transport individuals while protecting them from ballistic or kinetic threats. The vehicle is built on a Ford F550 chassis and is capable of holding two crew members in addition to 10 passengers. The vehicle contains communications equipment and an advanced thermal and color camera system.
<b>Quantity</b>	1 ***purchased in 2022 / acquired in April of 2023
<b>Capability</b>	The Lenco BearCat is a mobile armored vehicle used to conduct rescues, transport personnel and equipment, and provide security to the public and officers
<b>Life Span</b>	~15 years
<b>Manufacturer's Desc.</b>	The Lenco BearCat G2 is the standard tactical armored vehicle for special operations units within the US Law Enforcement community. Since the early 2000s, agencies such as LAPD, LASD SEB, NYPD ESU, Boston PD



	and hundreds of Federal, State and Local Law Enforcement agencies have made the BearCat G2 part of their standard operating procedure. The G2 has excellent on-road driving characteristics and maneuverability in tight urban settings. The large floor plan seats 10 – 12 fully equipped officers with a long list of tactical features <b>only</b> found on the Lenco BearCat line of armored SWAT vehicles for Police and Government.
<b>Purpose</b>	Provide armored vehicle response to critical incidents
<b>Authorized Usage</b>	To be driven only by officers who have been trained in the safe operation of the BearCat and in compliance with department policy.
<b>Costs</b>	Initial cost \$388,236. Yearly maintenance costs \$3,000
<b>Required Training</b>	EVOC training and annual training provided during SWAT training
<b>Authority of Authorized Use</b>	The BearCat will only be used for official law enforcement business and in accordance with California State Law regarding the operation of motor vehicles.

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**Category 5: Command and control vehicles that are either built or modified to facilitate the operational control and direction of public safety units**

**MICC-2017 Winnebago Adventurer 35P**

<b>Description</b>	MICC – Mobile Incident Command Center. A vehicle which is a self-contained command post designed to provide the incident commander and support staff with a mobile base of operation. The vehicle contains specialized communications and IT equipment to assist the Critical Incident Negotiations Team (CINT).
<b>Quantity</b>	1
<b>Capability</b>	Command and Control Vehicle. This vehicle is typically used as a command post during tactical operations or large scale public events.
<b>Life Span</b>	Unknown on vehicle. Communications and IT equipment will need to be updated approximately every five years to maintain modern technology
<b>Manufacturer’s Desc.</b>	The Winnebago® Adventurer® is back, packed with user-friendly features and more value than ever before. The Adventurer's five family-friendly floorplans offer plenty of living space and ample storage, whether you're planning a weekend getaway or the trip of a lifetime.
<b>Purpose</b>	Provide a mobile command post to incident commanders during major or critical incidents or a staging area for community events
<b>Authorized Usage</b>	To be driven only by officers who have been trained in the safe operation of the MICC and in compliance with department policy.
<b>Costs</b>	Initial cost \$190,000. Yearly maintenance costs \$8,000-\$10,000
<b>Required Training</b>	Departmental EVOG training and bi-annual training provided during CINT training
<b>Authority of Authorized Use</b>	The MICC will only be used for official law enforcement business and in accordance with California State Law regarding the operation of motor vehicles.



## Category 7: Battering rams, slugs, and breaching apparatuses that are explosive in nature

### Ballistic Breaching Shotguns



<b>Description</b>	A Remington Arms short-barreled pistol-gripped 12-gauge pump action shotgun that has been modified to perform ballistic breaching tasks. The breaching shotgun is designed to fire specific breaching rounds or slugs.
<b>Quantity</b>	7
<b>Capability</b>	The ballistic breaching shotguns can be used to breach doors and non-traditional barriers such as windows. Under circumstances requiring deadly force the shotgun can be used in defense of human life. The shotgun can also be used for deploying diversionary and disorientation devices.
<b>Life Span</b>	20+ years
<b>Manufacturer's Desc.</b>	12-gauge 870 pump-action shotgun features a bottom loading side ejecting receiver and a tubular magazine under the barrel.
<b>Purpose</b>	Safely gain entry into a structure by defeating locking mechanisms, material, or other barriers.
<b>Authorized Usage</b>	SWAT team members who have attended the required training during specified operations, high risk warrants, or emergency situations.
<b>Costs</b>	\$774 each
<b>Required Training</b>	40 hour breaching course with a minimum of 8 hours of yearly ongoing training.
<b>Authority of Authorized Use</b>	Mission based under the authority of California Penal Code Section 1534(a). Vacaville Police SWAT Policies and Procedures. Department Policy on Shotgun and Explosive Breaching



## Breaching Rounds



<b>Description</b>	The Royal Arms Tesar Ballistic Breaching Round is designed to work in correlation with a Ballistic Breaching Shotgun. The Ballistic Breaching Round is encased in a 12-gauge shotgun casing and usually consists of a variety of different materials allowing for versatility of use based on target analysis.
<b>Quantity</b>	250
<b>Capability</b>	Used to defeat locks, deadbolts, and hinges, or other barriers.
<b>Life Span</b>	N/A
<b>Manufacturer's Desc.</b>	2 3/4" compressed copper frangible 12-gauge copper slug
<b>Purpose</b>	Safely gain entry into a structure by defeating doors and barriers.
<b>Authorized Usage</b>	SWAT team members who have attended the required training during specified operations, high risk warrants, or emergency situations.
<b>Costs</b>	\$25-\$30 per 5-round box
<b>Required Training</b>	40 hour breaching course with a minimum of 8 hours of yearly ongoing training.
<b>Authority of Authorized Use</b>	Mission based under the authority of California Penal Code Section 1534(a). Vacaville Police SWAT Policies and Procedures. Department Policy on Shotgun and Explosive Breaching



## Nonel Zero Delay Detonator



<b>Description</b>	Blasting cap
<b>Quantity</b>	75+
<b>Capability</b>	Provides a means to initiate detonating cord used in breaching applications
<b>Life Span</b>	3 years
<b>Manufacturer's Desc.</b>	Shock tube non-electric detonators consist of a length of shock tube, with a standard #8 detonator attached to one end and the other end is sealed. Zero delay (instant).
<b>Purpose</b>	Provide a means to initiate detonating cord in breaching applications.
<b>Authorized Usage</b>	High risk warrant service by the SWAT Team or emergency situations.
<b>Costs</b>	\$2,000
<b>Required Training</b>	48+ hour 6-day Explosive Breaching Course
<b>Authority of Authorized Use</b>	Mission based under the authority of California Penal Code Section 1534(a). Vacaville Police SWAT Policies and Procedures. Department Policy on Shotgun and Explosive Breaching

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## 18 Grain per ft Detonating Cord



<b>Description</b>	18 grain per ft detonating cord
<b>Quantity</b>	~800' - 1000'
<b>Capability</b>	Used to safely breach doors and walls
<b>Life Span</b>	5years
<b>Manufacturer's Desc.</b>	PRIMACORD detonating cords are flexible linear explosives with a core of PETN explosive encased in a textile outer jacket. PRIMACORD detonating cords are designed for use as trunklines and/or downlines in various mining, quarrying and construction applications.
<b>Purpose</b>	Used to safely breach doors and walls
<b>Authorized Usage</b>	High risk warrant service by the SWAT Team or emergency situations.
<b>Costs</b>	\$500
<b>Required Training</b>	48 hour 6-day Explosive Breaching Course
<b>Authority of Authorized Use</b>	Mission based under the authority of California Penal Code Section 1534(a). Vacaville Police SWAT Policies and Procedures. Department Policy on Shotgun and Explosive Breaching



## 25 Grain per ft Detonating Cord



<b>Description</b>	25 grain per ft detonating cord
<b>Quantity</b>	~800'
<b>Capability</b>	Used to safely breach doors and walls
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	PRIMACORD detonating cords are flexible linear explosives with a core of PETN explosive encased in a textile outer jacket. PRIMACORD detonating cords are designed for use as trunklines and/or downlines in various mining, quarrying and construction applications.
<b>Purpose</b>	Used to safely breach doors and walls
<b>Authorized Usage</b>	High risk warrant service by the SWAT Team or emergency situations.
<b>Costs</b>	\$825
<b>Required Training</b>	48 hour 6-day Explosive Breaching Course
<b>Authority of Authorized Use</b>	Mission based under the authority of California Penal Code Section 1534(a). Vacaville Police SWAT Policies and Procedures. Department Policy on Shotgun and Explosive Breaching



## 50 Grain per ft Detonating Cord



<b>Description</b>	50 grain detonating cord
<b>Quantity</b>	~600' - 700'
<b>Capability</b>	Used to safely breach doors and walls
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	PRIMACORD detonating cords are flexible linear explosives with a core of PETN explosive encased in a textile outer jacket. PRIMACORD detonating cords are designed for use as trunklines and/or downlines in various mining, quarrying and construction applications
<b>Purpose</b>	Used to safely breach doors and walls
<b>Authorized Usage</b>	High risk warrant service by the SWAT Team or emergency situations.
<b>Costs</b>	\$630
<b>Required Training</b>	48 hours 6-day Explosive Breaching Course
<b>Authority of Authorized Use</b>	Mission based under the authority of California Penal Code Section 1534(a). Vacaville Police SWAT Policies and Procedures. Department Policy on Shotgun and Explosive Breaching



**Category 10: Specialized firearms and ammunition of less than .50 caliber, including assault weapons as defined in Sections 30510 and 30515 of the Penal Code, with the exception of standard issue service weapons and ammunition of less than .50 caliber that are issued to officers, agents, or employees of a law enforcement agency or a state agency.**

**Accuracy International AT308 .308 Short Action Rifle**



<b>Description</b>	Bolt action .308 sniper rifle
<b>Quantity</b>	5
<b>Capability</b>	Firearm capable of long-range precision shooting
<b>Life Span</b>	10-15 years
<b>Manufacturer's Desc.</b>	The AT (Accuracy Tactical) continues the legacy of the combat proven AW308 and takes the AW to new levels. The standard model has a fixed stock with 24 inch, quick change, plain barrel. There are options for color, folding stock, barrels and suppressors and many accessories, which can be added. The AT is ideal for Law Enforcement and civilian users.
<b>Purpose</b>	Lethal force option that can be used at extended distances to protect human life from death or serious bodily injury
<b>Authorized Usage</b>	Firearm used by properly trained SWAT Operators assigned as snipers. Firearm to be used to defend human life from death or serious bodily injury.
<b>Costs</b>	\$9,000 each (includes optics)
<b>Required Training</b>	P.O.S.T. Certified Sniper Course, Yearly Qualifications, On-going monthly training
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, Penal Code 835



## Remington 700 Bolt Action .308 Rifle



<b>Description</b>	Bolt Action .308 Sniper Rifle
<b>Quantity</b>	4
<b>Capability</b>	Firearm capable of making a precise placed shot outside the capability of a standard SWAT rifle and at long range distances
<b>Life Span</b>	10-15 years
<b>Manufacturer's Desc.</b>	The Model 700 SPS Tactical is a highly maneuverable member of the family. It's built for tack-driving accuracy with a 20" heavy-contour tactical-style barrel and dual-point pillar bedding in its black synthetic stock. Hogue® overmoldings on the stock facilitate sure handling, and it has a semi-beavertail fore-end for added stability off a rest.
<b>Purpose</b>	Lethal force option that can used at extended distances to protect human life from death or serious bodily injury
<b>Authorized Usage</b>	Firearm used by properly trained SWAT Operators assigned as snipers.
<b>Costs</b>	\$1000 each
<b>Required Training</b>	P.O.S.T. Certified Sniper Course, Yearly Qualifications, On-going monthly training
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, Penal Code 835



## Daniel Defense DDM4 V7 Rifle



<b>Description</b>	Fully Automatic Rifle, 5.56x45mm Caliber, Rifle
<b>Quantity</b>	22
<b>Capability</b>	Firearm capable of being used in close quarters and at extended ranges during potential lethal force encounters
<b>Life Span</b>	10-15 Years
<b>Manufacturer's Desc.</b>	The DDM4 V7 AR15 style firearm features M-LOK attachment technology with the Daniel Defense MFR 15.0 rail. Built around a Cold Hammer Forged barrel, the V7 has a DD improved Flash Suppressor to reduce flash signature. The mid-length gas system provides smooth and reliable cycling under any condition and reduces both perceived recoil and wear on moving parts. With the M-LOK attachment points that run along 7 positions and an uninterrupted 1913 Picatinny rail on top, the V7 has plenty of room for the sights, optics, and accessories the user may require. The independently ambi GRIP-N-RIP Charging Handle accommodates left- and right-handed shooters. This rifle also comes with the ergonomic Daniel Defense Buttstock and Pistol Grip.
<b>Purpose</b>	Lethal force option that can be used at close range and extended distances to protect human life from death or serious bodily injury
<b>Authorized Usage</b>	Firearm used by properly trained SWAT Operators
<b>Costs</b>	\$3000 each
<b>Required Training</b>	P.O.S.T. Certified SWAT School, Yearly Qualifications, On-going monthly training
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, Penal Code 835



## Colt M4 Carbine Rifle

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<b>Description</b>	Fully Automatic Rifle, 5.56x45mm
<b>Quantity</b>	8
<b>Capability</b>	Firearm capable of being used in close quarters and at extended ranges during potential lethal force encounters
<b>Life Span</b>	10-15 Years
<b>Manufacturer's Desc.</b>	Gas operated 5.56x45mm, air cooled, magazine fed, semi-automatic and full automatic action M4.
<b>Purpose</b>	Lethal force option that can be used at close range and extended distances to protect human life from death or serious bodily injury
<b>Authorized Usage</b>	Firearm used by properly trained SWAT Operators
<b>Costs</b>	\$1200 each
<b>Required Training</b>	P.O.S.T. Certified SWAT School, Yearly Qualifications, On-going monthly training
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, Penal Code 835



## Sig Sauer M400 M4 Rifle

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<b>Description</b>	Fully automatic rifle, 5.56x45mm caliber
<b>Quantity</b>	7
<b>Capability</b>	Firearm capable of being used in close quarters and at extended ranges during potential lethal force encounters
<b>Life Span</b>	10-15 Years
<b>Manufacturer's Desc.</b>	Accurate, lightweight and crafted from the finest components, the SIGM400 PRO sets the new standard for direct-impingement AR-15s.
<b>Purpose</b>	Lethal force option that can be used at close range and extended distances to protect human life from death or serious bodily injury
<b>Authorized Usage</b>	Firearm used by properly trained SWAT Operators
<b>Costs</b>	\$1800 each
<b>Required Training</b>	P.O.S.T. Certified SWAT School, Yearly Qualifications, On-going monthly training
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, Penal Code 835



## **Noveske N4 Rifle**

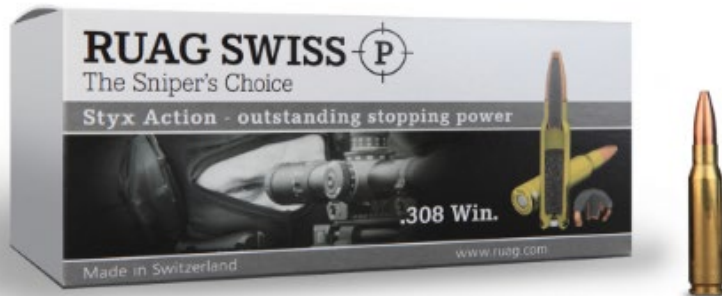
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<b>Description</b>	Fully automatic rifle, 5.56x45mm caliber
<b>Quantity</b>	7
<b>Capability</b>	Firearm capable of being used in close quarters and at extended ranges during potential lethal force encounters
<b>Life Span</b>	10-15 Years
<b>Manufacturer's Desc.</b>	No manufacturer's description located
<b>Purpose</b>	Lethal force option that can be used at close range and extended distances to protect human life from death or serious bodily injury
<b>Authorized Usage</b>	Firearm used by properly trained SWAT Operators
<b>Costs</b>	\$2500 each
<b>Required Training</b>	P.O.S.T. Certified SWAT School, Yearly Qualifications, On-going monthly training
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, Penal Code 835



## Swiss P Styx Action .308 ammunition



<b>Description</b>	Centerfire .308 cartridge, tombac jacket, lead core, 167 grain
<b>Quantity</b>	3900
<b>Capability</b>	.308 cartridge capable of long range accuracy, presents over-penetration
<b>Life Span</b>	N/A
<b>Manufacturer's Desc.</b>	The hyper expanding hollow point bullet immediately deposits its energy within a very short distance providing excellent stopping power on soft targets and is direction stable. The sophisticated bullet tip provides an absolutely reliable hyper expansion to approximately the double of its original diameter. Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.
<b>Purpose</b>	Lethal force option that can be used at extended distances to protect human life from death or serious bodily injury
<b>Authorized Usage</b>	Ammunition used by properly trained SWAT Operators assigned as snipers.
<b>Costs</b>	\$2.37 ea.
<b>Required Training</b>	P.O.S.T. Certified Sniper Course, Yearly Qualifications, On-going monthly training
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, Penal Code 835



## Swiss P Styx armor piercing .308 ammunition



<b>Description</b>	Centerfire .308 cartridge, tombac jacket, tungsten carbide and lead core, 196 grain
<b>Quantity</b>	15
<b>Capability</b>	.308 cartridge capable of long range accuracy, for targets located behind hard barriers
<b>Life Span</b>	N/A
<b>Manufacturer's Desc.</b>	<p>The tungsten carbide core is much harder and more ductile than most targets which makes it unstoppable for light armor. Because the core does not break apart during penetration it transfers outstanding residual energy to the target. Using only high quality raw materials and producing within tight tolerances ensure an identical point of impact from batch to batch.</p> <p>A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.</p>
<b>Purpose</b>	Lethal force option that can be used at extended distances to protect human life from death or serious bodily injury
<b>Authorized Usage</b>	Ammunition used by properly trained SWAT Operators assigned as snipers.
<b>Costs</b>	\$7.81 ea.
<b>Required Training</b>	P.O.S.T. Certified Sniper Course, Yearly Qualifications, On-going monthly training
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, Penal Code 835



## Swiss P Tactical .308 ammunition



<b>Description</b>	Centerfire .308 cartridge, 164 grain
<b>Quantity</b>	300
<b>Capability</b>	.308 cartridge capable of long range accuracy, for targets located behind intermittent and glass barriers
<b>Life Span</b>	N/A
<b>Manufacturer's Desc.</b>	The challenge is to accurately hit targets behind an angled window or wind shield without the risk of unpredictable bullet deflection. This could endanger bystanders, especially if the shooting line is not perpendicular to the window. Conventional bullets break apart or fragment when penetrating glass which makes accurate shooting impossible. At least 90% of the residual body of the SWISS P Tactical bullet stays intact and it does not fragment at all. Tight production tolerances and small production batches ensure constant ballistic values and stringent quality controls guarantee identical trajectory from batch to batch.
<b>Purpose</b>	Lethal force option that can be used at extended distances to protect human life from death or serious bodily injury
<b>Authorized Usage</b>	Ammunition used by properly trained SWAT Operators assigned as snipers.
<b>Costs</b>	\$2.81 ea
<b>Required Training</b>	P.O.S.T. Certified Sniper Course, Yearly Qualifications, On-going monthly training
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, Penal Code 835



**Category 12: Noise flash diversionary devices (NFDD) and explosive breaching tools, “tear gas,” and “pepper balls,” excluding standard, service-issued handheld pepper spray**

**Noise/Flash Diversionary Device – 7290M**



<b>Description</b>	A diversionary device used to distract dangerous person through the use of light and sound.
<b>Quantity</b>	119
<b>Capability</b>	Produce atmospheric over-pressure and brilliant white light, and as a result, can cause short-term (6-8 seconds) physiological/psychological sensory deprivation to give officers a tactical advantage.
<b>Life Span</b>	5-year manufacturer warranty
<b>Manufacturer’s Desc.</b>	<b>7290M</b> – The CTS 7290M Mini Flash-Bang is the newest generation in the evolution of the Flash-Bang. Our Model 7290M Flash-Bang exhibits all of the same attributes of its larger counterpart but in a smaller and lighter package. Weighing in at just 15 ounces the new 7290M is approximately 30% lighter than the 7290 but still has the same 180db output of the 7290 and produces 6-8 million candela of light. The patented design of the 7290M, incorporates a porting system that eliminates movement of the body at detonation even if the top or bottom of the device should be in contact with a hard surface. In addition, internal adjustments have greatly reduced smoke output.
<b>Purpose</b>	To safely resolve high risk incidents
<b>Authorized Usage</b>	De-escalation tool used by officers trained in its use
<b>Costs</b>	\$37.65 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructors must receive training every 4 years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and SWAT Policies and Procedures



## **Noise/Flash Diversionary Device – 7290-3 “3-Bang”**



<b>Description</b>	A diversionary device used to distract dangerous person through the use of light and sound.
<b>Quantity</b>	9
<b>Capability</b>	Produce atmospheric over-pressure and brilliant white light in 3 separate bursts, and as a result, can cause short-term physiological/psychological sensory deprivation to give officers a tactical advantage.
<b>Life Span</b>	5-year manufacturer warranty
<b>Manufacturer’s Desc.</b>	<b>7290-3</b> – The CTS 7290-3 Flash-Bang is a non-bursting, non-fragmenting multi-bang device that produces a thunderous bang with an intense bright light. Ideal for distracting dangerous suspects during assaults, hostage rescue, room entry or other high risk arrest situations.
<b>Purpose</b>	To safely resolve high risk incidents
<b>Authorized Usage</b>	De-escalation tool used by officers trained in its use
<b>Costs</b>	\$112.95 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructors must receive training every 4 years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and SWAT Policies and Procedures



## Noise/Flash Diversionary Device – 7290-5 “5-Bang”



<b>Description</b>	A diversionary device used to distract dangerous person through the use of light and sound.
<b>Quantity</b>	2
<b>Capability</b>	Produce atmospheric over-pressure and brilliant white light in 5 separate bursts, and as a result, can cause short-term physiological/psychological sensory deprivation to give officers a tactical advantage.
<b>Life Span</b>	5-year manufacturer warranty
<b>Manufacturer’s Desc.</b>	<b>7290-5</b> – The CTS 7290-3 Flash-Bang is a non-bursting, non-fragmenting multi-bang device that produces a thunderous bang with an intense bright light. Ideal for distracting dangerous suspects during assaults, hostage rescue, room entry or other high risk arrest situations.
<b>Purpose</b>	To safely resolve high risk incidents
<b>Authorized Usage</b>	De-escalation tool used by officers trained in its use
<b>Costs</b>	\$188.25 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructors must receive training every 4 years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and SWAT Policies and Procedures



## Defense Technology, Flameless Tri-Chamber OC Grenade



<b>Description</b>	Canister containing OC (Oleoresin Capsicum) that is released when deployed.
<b>Quantity</b>	20
<b>Capability</b>	The design of the Tri-Chamber Flameless OC Grenade allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. The grenade is designed to release OC which is an incapacitating irritant and inflammatory agent.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Flameless Tri-Chamber Grenade is the first pyrotechnic grenade available with Oleoresin Capsicum (OC) as an option for less lethal crowd control. Primarily designed to detect and/or dislodge a barricaded subject inside or outside a building, the grenade combines the effectiveness of OC as an incapacitating irritant and inflammatory agent with the flexible delivery methods, range, and area coverage of pyrotechnic munitions.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations.
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators.
<b>Costs</b>	\$46.20 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructors must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology, Flameless Tri-Chamber CS Grenade



<b>Description</b>	Canister containing CS gas that is released when deployed.
<b>Quantity</b>	40
<b>Capability</b>	The Tri-Chamber Flameless CS Grenade allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. The grenade is designed to release CS gas which minimizes the risks to all parties through pain compliance, temporary discomfort, and/or incapacitation of potentially violent or dangerous subjects.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The design of the Tri-Chamber Flameless CS Grenade allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. The grenade is designed primarily for indoor tactical situations to detect and/or dislodge a barricaded subject. This grenade will deliver approximately .70 oz. of agent during its 20-25 seconds burn time. The Tri-Chamber Flameless Grenade can be used in crowd control as well as tactical deployment situations by Law Enforcement and Corrections, but was designed with the barricade situation in mind.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations.
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators.
<b>Costs</b>	\$43.60 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructors must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



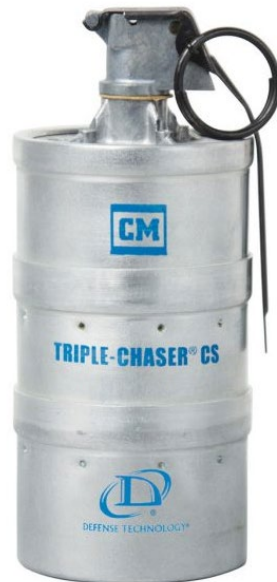
## Defense Technology, Flameless Tri Chamber Saf Smoke



<b>Description</b>	Canister containing non carcinogenic smoke that is released when deployed.
<b>Quantity</b>	20
<b>Capability</b>	The Tri-Chamber Flameless Saf Smoke Grenade allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. The grenade is designed to release smoke which impairs vision. The smoke can also be used to intensify the use of CS gas and OC.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The design of the Tri-Chamber Flameless Saf-Smoke™ Grenade allows the contents to burn within an internal can and disperse the agent safely with reduced risk of fire. The grenade is designed primarily for indoor tactical situations to detect and/or dislodge a barricaded subject. This grenade will deliver approximately .70 oz. of agent during its 20-25 seconds burn time. The Tri-Chamber Flameless Grenade can be used in crowd control as well as tactical deployment situations by Law Enforcement and Corrections, but was designed with the barricade situation in mind. Its applications in tactical situations are primarily to detect and/or dislodge barricaded subjects.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$41.50
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructors must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology Triple-Chaser Separating Canister, CS



<b>Description</b>	Canister containing CS gas that is released when is deployed.
<b>Quantity</b>	8
<b>Capability</b>	Munition that separates allowing rapid deployment of CS gas making it more difficult to throw back at officers. Used outdoors in riotous situations.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Triple-Chaser® CS consists of three separate canisters pressed together with separating charges between each. When deployed, the canisters separate and land approximately 20 feet apart allowing increased area coverage in a short period of time. This grenade can be hand thrown or launched from a fired delivery system. The grenade is 6.5 in. by 2.7 in. and holds an approximately 3.2 oz. of active agent payload. It has an approximate burn time of 20-30 seconds.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations.
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators.
<b>Costs</b>	\$54.95 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructors must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology Spede-Heat Continuous Discharge Chemical Grenade, CS



<b>Description</b>	Canister containing CS gas that is released when deployed.
<b>Quantity</b>	12
<b>Capability</b>	Munition containing a rapid release of CS teargas. Can be deployed outside or in a burn safe to reduce any fire risk.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Spede-Heat™ CS Grenade is a high volume, continuous burn it expels its payload in approximately 20-40 seconds. The payload is discharged through four gas ports on top of the canister, three on the side and one on the bottom. This launchable grenade is 6.12 in. by 2.62 in. and holds approximately 2.9 oz. of active agent.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$34.70 each
<b>Required Training</b>	Yearly training and qualifications by a qualified instructor. Instructor must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology Stinger Rubber Ball Grenade, CS



<b>Description</b>	Canister containing CS gas that is released when deployed.
<b>Quantity</b>	6
<b>Capability</b>	Hand-held munition that carries with it the capabilities of a diversionary device containing CS gas and small rubber balls
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Stinger® CS Grenade with safety clip is a maximum effect device that delivers four stimuli for psychological and physiological effects: rubber pellets, light, sound, and CS. The Stinger® Grenade is most widely used as a crowd management tool by Law Enforcement and Corrections. The Stinger® Grenade has an initial 1.5 second delay that initiates fuse assembly separation, followed by another .5 second delay before the blast which is sufficient to project the rubber balls and chemical agent in a 50 foot radius.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$52.65 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology Rubber Ball Blast Grenade, CS



<b>Description</b>	Canister containing CS gas that is released when deployed.
<b>Quantity</b>	12
<b>Capability</b>	Hand-held munition that carries with it the capabilities of a diversionary device containing CS gas
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Rubber Ball CS Blast Grenade with safety clip is a maximum effect device that delivers three stimuli for psychological and physiological effects: light, sound and CS. The Rubber Ball CS Blast is most widely used as a crowd management tool by Law Enforcement and Corrections. The Rubber Ball CS Blast has an initial 1.5 second delay that initiates fuse assembly separation, followed by another .5 second delay. The Rubber Ball CS Blast Grenade combines loud report and flash with effects of chemical agents.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$44.75 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology Rubber Ball Blast Grenade, OC



<b>Description</b>	Canister containing OC that is released when deployed
<b>Quantity</b>	6
<b>Capability</b>	Hand-held munition that carries with it the capabilities of a diversionary device containing OC teargas
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Rubber Ball OC Blast Grenade with safety clip is a maximum effect device that delivers three stimuli for psychological and physiological effects: light, sound and OC. The Rubber Ball OC Blast is most widely used as a crowd management tool by Law Enforcement and Corrections. The Rubber Ball OC Blast has an initial 1.5 second delay that initiates fuse assembly separation, followed by another .5 second delay. The Rubber Ball OC Blast Grenade combines loud report and flash with effects of chemical agents.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$53.55
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology Instantaneous Blast CS Grenade



<b>Description</b>	Canister containing CS gas that is released when deployed.
<b>Quantity</b>	25
<b>Capability</b>	Hand deployed munition containing CS gas specifically designed for indoor use.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Instantaneous Blast CS Grenade is designed for indoor or outdoor use; this grenade's powder is expelled upon initiation of a small internal detonator that has sufficient force to split the canister at six machined grooves on the outside surface. This device is well suited for affecting numerous subjects grouped within a contained portion of a prison yard or area, using wind to the advantage. This 6.12 in. by 2.62 in. grenade will deliver approximately 1.5 oz. of active agent.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$47.00
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology Instantaneous Blast OC Grenade



<b>Description</b>	Canister containing OC that is released when deployed.
<b>Quantity</b>	5
<b>Capability</b>	Hand deployed munition containing OC specifically for indoor use
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Instantaneous Blast OC Grenade is designed for indoor or outdoor use; this grenade's powder is expelled upon initiation of a small internal detonator that has sufficient force to split the canister at six machined grooves on the outside surface. This device is well suited for affecting numerous subjects grouped within a contained portion of a prison yard or area, using wind to the advantage. This 6.12 in. by 2.62 in. grenade will deliver approximately 1.5 oz. of active agent.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators.
<b>Costs</b>	\$53.55 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology OC Vapor Aerosol Grenade



<b>Description</b>	Canister containing OC that is released when deployed.
<b>Quantity</b>	19
<b>Capability</b>	Munition containing OC in vapor form and delivered in an aerosol form minimizing any fire hazard. Specifically designed for indoor use.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Defense Technology® OC Vapor Aerosol Grenade is for law enforcement and corrections use to deliver a high concentration of Oleoresin Capsicum (OC) in a powerful mist. The grenade is designed for indoor-use in confined areas and, once deployed, inflames the mucous membranes and exposed skin resulting in an intense burning sensation. The incapacitating effect of the OC Vapor on the subject is dramatic, yet requires minimal decontamination. Removing the subject from the affected area to fresh air will resolve respiratory effects within minutes. The OC Vapor Aerosol Grenade is ideal for cell extractions or barricade situations where the use of pyrotechnic, powder or liquid devices is not practical or desired.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$47.25 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four year.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology Pocket Tactical Grenade, CS



<b>Description</b>	Canister containing CS gas that is released when deployed.
<b>Quantity</b>	13
<b>Capability</b>	Munition containing a rapid release of CS teargas. Can be deployed outside or in a burn safe to reduce any fire risk
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Pocket Tactical CS Grenade is small, and lightweight. The 0.9 oz. of active agent will burn approximately 20-40 seconds. At 4.75 in. by 1.4 inches in size, it easily fits in most tactical pouches. This is a launchable grenade; however it is normally used as a signaling or covering device. Though this device is slightly over four inches in length, it produces a smoke cloud so fast it appears to be an enveloping screen produced by a full size tactical grenade.
<b>Purpose</b>	To safely resolve critical incident and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$26.40 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Combined Systems Launchable Tri Chamber CS gas



<b>Description</b>	Canister containing CS gas that is released when deployed.
<b>Quantity</b>	20
<b>Capability</b>	Canister that deploys CS gas and can be launched from a cap attached to a 12 gauge shotgun. Can be deployed outside or inside with minimal fire hazard.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	Pyrotechnic grenade designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire.
<b>Purpose</b>	To safely resolve critical incidents and high-risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$36.74
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Defense Technology Spede-Heat 40MM Long-Range Round, CS



<b>Description</b>	Launchable munition containing CS gas that is released when deployed.
<b>Quantity</b>	6
<b>Capability</b>	Munition capable of being launched at a distance. Designed for riotous situations or deployed indoors with a significant fire hazard such as lethal force encounters.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Spede-Heat™ CS Long-Range Munitions delivers one chemical canister of CS agent from a 40 mm launcher down range up to 150 yards. The Spede-Heat™ is a pyrotechnic round designed specifically for outdoor use in crowd control situations with a high volume continuous burn that expels its payload in approximately 20-40 seconds from a single source. The Spede-Heat family may be used to conceal tactical movement or to route a crowd.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$27.50
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## **Ferret 40mm Powder Barricade Round, Inert**



<b>Description</b>	A 40mm less lethal round used to penetrate barriers.
<b>Quantity</b>	25
<b>Capability</b>	Deploy agent inside of a structure via a 40mm launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Ferret® 40 mm Barricade Penetrating Round is filled with an Inert powder. It is a frangible projectile that is spin stabilized utilizing barrel rifling. It is non-burning and used as a training round for our 40mm CN, CS or OC Powder Ferret® rounds. Primarily used by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impact the nose ruptures and instantaneously delivers the inert powder.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$22.05
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## **Ferret 40mm Liquid Barricade Round, Inert**



<b>Ferret 40mm Liquid Barricade Round, Inert</b>	
<b>Description</b>	A 40mm less lethal round used to penetrate barriers.
<b>Quantity</b>	6
<b>Capability</b>	Deploy agent inside of a structure via a 40mm launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	<p>The Ferret® 40mm Round is non-burning and suitable for indoor use. Used primarily by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impacting the barrier, the nose cone ruptures and instantaneously delivers a small chemical payload inside of a structure or vehicle.</p> <p>In a tactical deployment situation, the 40mm Ferret is primarily used to dislodge barricaded subjects from confined areas. Its purpose is to minimize the risks to all parties through pain compliance, temporary discomfort and/or incapacitation of potentially violent or dangerous subjects.</p>
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$26.25
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## **Ferret 40mm Powder Barricade Round, CS**



<b>Description</b>	A 40mm less lethal round used to penetrate a barrier and deliver CS gas inside of a structure.
<b>Quantity</b>	112
<b>Capability</b>	Deploy agent inside of a structure via a 40mm launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Ferret® 40 mm Barricade Penetrating Round is filled with a CS powder chemical agent. It is a frangible projectile that is spin stabilized utilizing barrel rifling. It is non-burning and designed to penetrate barriers. Primarily used to dislodge barricaded subjects, it can also be used for area denial. Primarily used by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impact the nose ruptures and instantaneously delivers the agent payload inside a structure or vehicle.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$26.25
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Ferret 40mm Powder Barricade Round, OC



<b>Ferret 40mm Powder Barricade Round, OC</b>	
<b>Description</b>	A 40mm less lethal round used to penetrate a barrier and deliver OC inside of a structure.
<b>Quantity</b>	53
<b>Capability</b>	Deploy agent inside of a structure via a 40mm launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Ferret® 40 mm Barricade Penetrating Round is filled with an OC powder chemical agent. It is a frangible projectile that is spin stabilized utilizing barrel rifling. It is non-burning and designed to penetrate barriers. Primarily used to dislodge barricaded subjects, it can also be used for area denial. Primarily used by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impact the nose ruptures and instantaneously delivers the agent payload inside a structure or vehicle.
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$25.20 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Ferret 40mm Liquid Barricade Penetrator Round, CS



<b>Description</b>	A 40mm less lethal round used to penetrate a barrier and deliver CS gas inside of a structure
<b>Quantity</b>	6
<b>Capability</b>	Deploy agent inside of a structure via a 40mm Launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	<p>The Ferret® 40mm Round is non-burning and suitable for indoor use. Used primarily by tactical teams, it is designed to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impacting the barrier, the nose cone ruptures and instantaneously delivers a small chemical payload inside of a structure or vehicle.</p> <p>In a tactical deployment situation, the 40mm Ferret is primarily used to dislodge barricaded subjects from confined areas. Its purpose is to minimize the risks to all parties through pain compliance, temporary discomfort and/or incapacitation of potentially violent or dangerous subjects.</p>
<b>Purpose</b>	To safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators
<b>Costs</b>	\$26.20
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Exact Impact 40mm Standard Range Sponge Round



<b>Description</b>	A less lethal 40mm round
<b>Quantity</b>	148
<b>Capability</b>	Deploy a less lethal munition at a specified target via a 40mm launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The eXact iMpaCt™ 40 mm Sponge Round is a point-of-aim, point-of-impact direct-fire round. This lightweight, high-speed projectile consisting of a plastic body and sponge nose that is spin stabilized via the incorporated rifling collar and the 40 mm launcher's rifled barrel. The round utilizes smokeless powder as the propellant, and, therefore, have velocities that are extremely consistent. Used for Crowd Control, Patrol, and Tactical Applications.
<b>Purpose</b>	To safely resolve critical incidents, crowd control issues, and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained patrol officers, SWAT Operators and Mobile Field Force Officers
<b>Costs</b>	\$27.83 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## **Direct Impact 40mm OC Crushable Foam Round**



<b>Direct Impact 40mm OC Crushable Foam Round</b>	
<b>Description</b>	A less lethal 40mm round that will release OC when deployed
<b>Quantity</b>	26
<b>Capability</b>	Deploy agent in the form of a less lethal munition at a specified target via a 40mm launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The 40 mm Direct Impact® Range Round is a point-of-aim, point-of-impact direct-fire round and is intended to be used in applications that exceed the performance capability of the standard Direct Impact Round. An excellent solution whether you need to incapacitate a single subject or control a crowd. When loaded with OC powder, the Direct Impact LE combines blunt trauma with the effects of an irritant powder, maximizing the potential for incapacitation.
<b>Purpose</b>	To safely resolve critical incidents, crowd control issues, and high risk tactical operations
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators and Mobile Field Force Officers
<b>Costs</b>	\$27.40 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Direct Impact 40mm Marking Crushable Foam Round



<b>Description</b>	A less lethal 40mm round used to mark the aggressor in a crowd control or riot situation
<b>Quantity</b>	40
<b>Capability</b>	Deploy a less lethal munition at a specified target via a 40mm launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The 40 mm Direct Impact® LE Extended Range Round is a point-of-aim, point-of-impact direct-fire round. An excellent solution whether you need to incapacitate a single subject or control a crowd. When loaded with a green marking agent, the Direct Impact LE can be used to indicate the aggressor in a crowd or riot situation to the team on the ground.
<b>Purpose</b>	To safely resolve critical incidents and crowd control issues
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators and Mobile Field Force Officers
<b>Costs</b>	\$25.95
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## **Skat Shell 40mm Multiple Projectile Round, CS**



<b>Description</b>	A less lethal 40mm round which will release CS gas when deployed
<b>Quantity</b>	5
<b>Capability</b>	Deploy agent at a specified target area via a 40mm launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Skat Shell® 40 mm CS multiple chemical projectile round is designed to deliver multiple CS canisters from a 40 mm launcher. It is designed for outdoor use and has fire-producing capability with a maximum effective range of 80-100 yards. It is widely used as a crowd management tool for the rapid and broad deployment of a chemical agent by a single grenadier. The Skat Shell contains four separate sub-munitions and provides a wide area of coverage.
<b>Purpose</b>	To safely resolve critical incidents and crowd control issues
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators and Mobile Field Force Officers
<b>Costs</b>	\$34.90
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## **Skat Shell 40mm Multiple Projectile Round, Saf-Smoke**



<b>Description</b>	A less lethal 40mm round which will release inert smoke when deployed
<b>Quantity</b>	4
<b>Capability</b>	Deploy agent at a specified target area via a 40mm launcher
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The Skat Shell® 40 mm Saf-Smoke™ multiple chemical projectile round with four separate sub-munitions is designed to deliver multiple Saf-Smoke canisters from a 40 mm launcher. It is widely used as a crowd management tool for the rapid and broad deployment of a chemical agent by a single grenadier. The Skat Shell contains four separate sub-munitions that function individually. The small scattering effect and the rapid burning of the sub-munitions provide a wide area of coverage and has a maximum effective range of 80-100 yards.
<b>Purpose</b>	To safely resolve critical incidents and crowd control issues
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators and Mobile Field Force Officers
<b>Costs</b>	\$34.90
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## Muzzle Blast 40mm Round, OC



<b>Description</b>	Less lethal 40mm round that will release OC when deployed.
<b>Quantity</b>	3
<b>Capability</b>	Munition designed to deploy powdered OC. Use either by direct contact or area saturation.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The 40 mm Muzzle Blast OC Round is widely used as a crowd management tool for the immediate and close deployment of chemical agent. It can also be employed in tactical operations such as barricaded subjects for area denial, area contamination, and a means of contaminating crawl spaces and attics. As a pain compliance round it is an excellent device for deploying chemical-laden OC powder at close ranges for indoor or outdoor operations. It has a maximum effective range of 30 feet /9.1 meters.
<b>Purpose</b>	Safely resolve critical incidents and high risk tactical operations.
<b>Authorized Usage</b>	De-escalation tool used by properly trained SWAT Operators or Mobile Field Force Officers
<b>Costs</b>	\$26.10
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Muzzle Blast 40mm Round, CS



<b>Description</b>	Less lethal 40mm round that will release CS gas when deployed
<b>Quantity</b>	10
<b>Capability</b>	Munition designed to deploy powdered CS. Use either by direct contact or area saturation.
<b>Life Span</b>	5 years
<b>Manufacturer's Desc.</b>	The 40 mm Muzzle Blast CS Round is widely used as a crowd management tool for the immediate and close deployment. It can also be employed in tactical operations such as barricaded subjects, room clearing, area denial, and for small space contamination, and a means of contaminating crawl spaces and attics. As a pain compliance round it is an excellent device for deploying chemical-laden CS powder at close ranges for indoor or outdoor operations. The cloud of agent is very effective in filling holes in dispersals lines or engaging crowds at close distances.
<b>Purpose</b>	De-escalation tool used to safely resolve critical incidents and high risk tactical operations
<b>Authorized Usage</b>	Properly trained SWAT Operators and Mobile Field Force Officers
<b>Costs</b>	\$26.10 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four year.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Policy on Response to Resistance, and Control Devices and Techniques



## Drag Stabilized 12-Gauge Bean Bag Round



<b>Description</b>	A less lethal impact round deployed by a 12-gauge shotgun
<b>Quantity</b>	990
<b>Capability</b>	Deploy a less lethal munition at a specified target via a 12-gauge shotgun
<b>Life Span</b>	N/A
<b>Manufacturer's Desc.</b>	The Drag Stabilized™ 12-Gauge Round is a translucent 12-Gauge shell loaded with a 40-Gram tear shaped bag made from a cotton and ballistic material blend and filled with #9 shot. This design utilizes four stabilizing tails and utilizes smokeless powder as the propellant. The 12-Gauge Drag Stabilized Round has secured its place as the Law Enforcement Communities' number one choice for specialty impact munitions. This round has a velocity of 270 fps with a maximum effective range of 75 feet.
<b>Purpose</b>	To safely resolve critical incidents where there is a threat of force or violence
<b>Authorized Usage</b>	De-escalation tool used by properly trained officers
<b>Costs</b>	\$5.80 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## Pepper Ball Inert Projectile



<b>Pepper Ball Inert Projectile</b>	
<b>Description</b>	Pepper Ball projectile that releases inert powder when deployed and strikes a surface
<b>Quantity</b>	6000
<b>Capability</b>	Deploy an agent at a specified target via a PepperBall launcher
<b>Life Span</b>	3 years
<b>Manufacturer's Desc.</b>	Containing a harmless, scented powder, this projectile is best suited for training, qualifications, and direct impact when chemical exposure is not desired.
<b>Purpose</b>	To safely resolve critical incidents where there is a threat of force or violence or used to defeat a barrier
<b>Authorized Usage</b>	De-escalation tool used by properly trained officers
<b>Costs</b>	\$315 for 375 rounds
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## Pepper Ball Live Projectile

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Pepper Ball Live Projectile	
<b>Description</b>	Pepper Ball projectile that releases PAVA powder when deployed and strikes a surface
<b>Quantity</b>	4000+
<b>Capability</b>	Deploy an agent at a specified target via a PepperBall launcher
<b>Life Span</b>	3 years
<b>Manufacturer's Desc.</b>	The classic .68 caliber PepperBall projectile. Contains 2% PAVA, and is excellent for direct impact and area saturation, especially in confined, interior spaces. Ultrasonically welded, 100% waterproof and non-flammable.
<b>Purpose</b>	To safely resolve critical incidents where there is a threat of force or violence
<b>Authorized Usage</b>	De-escalation tool used by properly trained officers
<b>Costs</b>	\$950 for 375 rounds
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



**Category 14: Projectile Launch Platforms and Their Associated Munitions: 40mm Projectile Launchers, “Bean Bag“, Rubber Bullet, and Specialty Impact Munitions (SIM) Weapons.**

**Defense Technology 40mm LMT Launcher**

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<b>Description</b>	Defense Technology 40mm Single Launcher
<b>Quantity</b>	28
<b>Capability</b>	Deploys 40mm less lethal impact munitions and 40mm chemical agent munitions
<b>Life Span</b>	N/A
<b>Manufacturer’s Desc.</b>	Manufactured exclusively for Defense Technology®, the 40LMTS is a tactical single shot launcher that features an expandable ROGERS Super Stoc and an adjustable Integrated Front Grip (IFG) with light rail. The ambidextrous Lateral Sling Mount (LSM) and QD mounting systems allow both a single and two point sling attachment. The 40LMTS will fire standard 40mm less lethal ammunition, up to 4.8 inches in cartridge length. The Picatinny Rail Mounting System will accept a wide array of enhanced optics/sighting systems.
<b>Purpose</b>	To safely resolve incidents where there is a threat of violence, critical incidents and high risk warrants
<b>Authorized Usage</b>	De-escalation tool used by properly trained officers
<b>Costs</b>	\$1,000 each
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## Pepper Ball FTC Launcher



<b>Description</b>	FTC PepperBall Launcher
<b>Quantity</b>	15
<b>Capability</b>	Launcher used to propel pepper balls at a specified target
<b>Life Span</b>	10-15 years
<b>Manufacturer's Desc.</b>	<ul style="list-style-type: none"> <li>• Semi-automatic</li> <li>• Firing rate of 10-12 RPS</li> <li>• Compact lightweight modular design</li> <li>• MIL-STD-1913 Rail for mounting accessories</li> <li>• Cross-bolt safety switch</li> <li>• 13 Cubic inch high pressure air system</li> <li>• Two tank mount options – forward or rearward</li> <li>• Gravity hopper included (electronic hopper as shown is purchased separately)</li> <li>• Available in all black or black/yellow</li> </ul>
<b>Purpose</b>	To safely resolve incidents where there is a threat of violence
<b>Authorized Usage</b>	De-escalation tool used by properly trained officers
<b>Costs</b>	\$526
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## Pepperball VKS Pro Launcher



<b>Description</b>	VKS Pro PepperBall Launcher
<b>Quantity</b>	1
<b>Capability</b>	Launcher used to propel pepper balls at a specified target
<b>Life Span</b>	10-15 years
<b>Manufacturer's Desc.</b>	<ul style="list-style-type: none"><li>• Semi-automatic</li><li>• Firing rate of 10-12 RPS</li><li>• No recoil</li><li>• M-LOK handguard</li><li>• Solid reinforced construction</li><li>• Maximum range of 150ft</li></ul>
<b>Purpose</b>	To safely resolve incidents where there is a threat of violence
<b>Authorized Usage</b>	De-escalation tool used by properly trained officers
<b>Costs</b>	\$1300
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## Tippmann Pneumatics Pepper Ball Launcher



<b>Tippmann Pneumatics Pepper Ball Launcher</b>	
<b>Description</b>	Pepper Ball Launcher
<b>Quantity</b>	1
<b>Capability</b>	Launcher used to propel pepper balls at a specified target
<b>Life Span</b>	10-15 years
<b>Manufacturer's Desc.</b>	<ul style="list-style-type: none"> <li>• Semi-automatic</li> <li>• Firing rate of 10-12 RPS</li> <li>• Compact lightweight modular design</li> <li>• Cross-bolt safety</li> <li>• 13 Cubic inch high pressure air system</li> <li>• Two tank mount options, forward or reward</li> <li>• Gravity fed hopper included</li> </ul> Available in all black
<b>Purpose</b>	To safely resolve incidents where there is a threat of violence
<b>Authorized Usage</b>	De-escalation tool used by properly trained officers
<b>Costs</b>	\$350
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## 12 Gauge Less Lethal Impact Munitions Launcher – Remington



<b>12 Gauge Less Lethal Impact Munitions Launcher - Remington</b>	
<b>Description</b>	Remington Pump Action, 12-Gauge Shotgun
<b>Quantity</b>	40
<b>Capability</b>	Deploy 12-gauge less lethal impact munitions and 12-gauge ferret gas rounds
<b>Life Span</b>	N/A
<b>Manufacturer's Desc.</b>	The Remington 870 barrel has a fixed cylinder choke for optimum performance with buckshot and slugs at close range. A myriad of aftermarket Remington 870 accessories enables owners to customize the 870 Express for specific purposes. 870 Remington is a receiver milled from a solid billet of steel for maximum strength, and twin action bars that prevent binding and twisting while cycling the action
<b>Purpose</b>	To safely resolve incidents where there is a threat of violence
<b>Authorized Usage</b>	De-escalation tool used by properly trained officers
<b>Costs</b>	\$500
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructor must receive training every four years.
<b>Authority of Authorized Use</b>	Department Policy on Response to Resistance and Control Devices and Techniques



## Chemical Agent Launching Platform – Remington/CSI



<b>Description</b>	Remington 870 12-gauge pump action shotgun w/CSI LC5 Launching Cup/Model 2600 launching cartridge and CSI 5230B Baffled Riot CS grenade
<b>Quantity</b>	1
<b>Capability</b>	Launch chemical agent (CSI 5230B) CS canisters
<b>Life Span</b>	N/A
<b>Manufacturer's Desc.</b>	The cups can be attached to virtually any 12 gauge shotgun and the munition launched with the model 2600 launching cartridge.
<b>Purpose</b>	Using a Remington 870 pump shotgun combined with a CSI launching cup, firing a "blank" CSI 2600 launching cartridge, the platform is used to launch CSI 5230B (CS) canisters at or into a direct target from up to 70 yards.
<b>Authorized Usage</b>	De-escalation tool used by the SWAT team.
<b>Costs</b>	\$700
<b>Required Training</b>	Yearly training and qualification by a qualified instructor. Instructors must receive training every 4 years.
<b>Authority of Authorized Use</b>	SWAT Policies and Procedures, Department Response to Resistance Policy and Control Devices and Techniques



## **Equipment Use – Deployments**

The following list best estimates how many times items deemed “military equipment” were deployed in 2024. Each category is a direct reflection of the military equipment categories listed in the Vacaville Police Department’s adopted and approved military equipment use policy (Lexipol Policy #709). It should be noted the Vacaville Police Department does not currently possess equipment that would fall into the following listed categories: weaponized aircraft / vessels / vehicles of any kind, firearms and ammunition that are .50 caliber or greater, firearms or firearms accessory designed to launch explosive projectiles, microwave or long-range acoustic devices, or water cannons.

- **Unmanned, remotely piloted, powered aerial or ground vehicles:**
  - UAS deployments (Drones) – The Vacaville Police Department has a robust drone team consisting of numerous sworn and non-sworn operators throughout the department. UASs are deployed on a frequent basis during a broad range of operations which include but are not limited to missing children / person searches, tactical operations, building searches, large venue monitoring, and searches for suspects during criminal apprehension efforts. UASs were operationally more than 30 times in 2024.
  - Transcend Robotics Robot – The vantage patrol robot was used in excess of 5 times in 2024. On at least one occasion, the robot remotely deployed chemical agents inside a structure, resulting in the successful surrender and apprehension of criminal suspects.
- **Mine-Resistant Ambush Protected Vehicle (MRAP)**
  - The Vacaville Police Department MRAP was deployed 2 times in 2024 for tactical operations.
- **High Mobility Multipurpose Wheeled Vehicles (HMMWV)**
  - The Lenco BearCat is a purpose-built armored vehicle designed to safely transport individuals while protecting them from ballistic or kinetic threats. The vehicle is built on a Ford F550 chassis and is capable of holding two crew members in addition to 10 passengers. The vehicle contains communications equipment and an advanced thermal and color camera system. In 2024 the BearCat was deployed approximately 45 total times for operations, patrol responses, training and community engagement events.
- **Command and control vehicles**
  - The Vacaville Police Department’s Mobile Incident Command Center (MICC) was deployed over 15 times in 2024 for community outreach events, large scale public venues (Fiesta Days, 4<sup>th</sup> of July, etc.), training, and tactical operations.
- **Battering rams, slugs, and explosive breaching apparatus**
  - Explosive breaching apparatus were operationally deployed on 1 occasion in 2024. The deployment resulted in the positive breach of a door and the eventual surrender of a barricaded suspect.
  - Shotgun breaching rounds were operationally utilized less than 25 times in 2024 during a variety of operations.



- **Specialized Firearms of less than .50 caliber, including firearms identified as assault weapons per Penal Code 30510 and Penal Code 30515**
  - The Vacaville Police Department currently owns 43 fully automatic rifles from various manufacturers. All of these rifles are chambered in 5.56X45mm caliber. Of these 43 rifles, approximately 20 were deployed in the field with SWAT personnel only, while the remainder remained in SWAT's inventory. Due to the fact SWAT Team members deploy these rifles in both patrol, specialty unit, and SWAT scenarios, it is virtually impossible to know how many times this equipment was deployed operationally. In 2024, none of these rifles were fired in an operational capacity (outside of training).
  - The Vacaville Police Department owns 5 Accuracy International .308 caliber precision rifle platforms. All of these rifles are assigned to the SWAT Team's sniper team. These rifles were operationally deployed on less than 10 occasions in 2024 during tactical operations. In 2024, none of these rifles were fired in an operational capacity (outside of training).
- **Noise-flash diversionary devices (NFDD) and explosive breaching tools**
  - NFDDs are used in a wide variety of applications by appropriately trained officers assigned to patrol, specialty units, and SWAT. In 2024 the Vacaville Police Department deployed approximately 29 NFDDs for a wide variety of reasons to include, but not limited to; training, distraction of suspects, to regain the tactical advantage, to enhance officer safety, as a de-escalation tactic, and to dislodge suspects from stronghold positions.
  - Explosive breaching tools were operationally deployed on 1 occasion in 2024. The deployment resulted in the positive breach of a door and the eventual surrender of a barricaded suspect.
- **Munitions containing tear gas or OC, excluding standard, service issued hand-held pepper spray**
  - The Vacaville Police Department has both OC and CS chemical agent munitions that can be delivered by various tools including, but limited to; hand-held grenades, 12-gauge shotgun launching devices, 12-gauge shotguns, 40mm launchers, and pepper-ball guns. These chemical agent munitions and delivery systems are used throughout the department by patrol officers, specialty unit members, mobile field force members, and SWAT Team operators. In 2024, chemical agents were used operationally on less than 5 occasions to de-escalate volatile situations, deny suspect access to specific areas, to dislodge suspects, and to regain or favorably shift a tactical advantage.
- **Kinetic energy weapons and munitions**
  - The Vacaville police department currently possesses three primary kinetic energy munition delivery systems; the 12 gauge less lethal bean-bag shotgun, the pepper-ball gun, and the single shot 40mm launcher. These three systems are deployed throughout the department including patrol, specialty units, mobile field force, and SWAT. In 2024, kinetic energy munitions were operationally deployed on less than 15 occasions in an effort to safely resolve potentially violent situations in a less-than-lethal manner, to defeat barriers such as windows, or to disable audio/video and lighting devices during tactical operations.



## **Projected Equipment Acquisitions for 2025**

Excluding the replacement or addition of previously approved controlled equipment, there are no new projected controlled equipment acquisitions for 2025.

## **Replacement of Previously Approved Controlled Equipment**

Consumable controlled equipment acquisitions for 2025 will main remain consistent with current replenishment schedules and policies.

The Vacaville Police Department will continue to replace, repair, or replenish previously approved controlled equipment without seeking prior approval, as long as these acquisitions are accomplished through the annual fiscal year budget process or another source of previously identified and approved funding.

## **Department Transparency**

The Vacaville Police Department strives to provide transparency on police activities, department policies, agency practices, and the use of controlled equipment. Remaining accountable to our community builds trust, confidence, and enhances community relationships. Prior to Assembly Bill 481, the Vacaville Police Department intentionally used a variety of community engagement events to introduce our community members to specialized equipment including our Unmanned Aircraft Systems, Armored Rescue Vehicle, Mobile Incident Command Center, SWAT equipment rig, robots, and other specialized SWAT tools to name a few. During these events, inquisitive community members are encouraged to ask questions and engage in dialogue regarding the use and purpose of the equipment displayed. The Vacaville Police Department will continue to use community events, in addition to spontaneous community outreach, to ensure public awareness, transparency, and education about the department's-controlled equipment.

## **Conclusion**

This Annual Military Equipment Report reaffirms the Vacaville Police Department's commitment to providing transparency and information to our community and elected officials, in addition to ensuring compliance with the law.

The equipment, resources, and training outlined in this report allows the Vacaville Police Department to better protect our community by enhancing public and officer safety. The use of controlled equipment is essential for resolving critical incidents safely and effectively.

**[END OF REPORT]**