

<p style="text-align: center;">Contra Costa County Office of the Sheriff</p> <p style="text-align: center;">General Policy and Procedure</p>	CCCSO	APPENDIX 16
	<p>RELATED ORDERS: Government Code §§ 7070-7075; CCCSO General Policy 1.07.30</p>	
<p>ISSUE DATE: 4-29-2022 REVISION DATE:</p>	<p>CLEARANCE: Office of the Sheriff</p>	
<p>CHAPTER: APPENDICES</p>	<p>SUBJECT: Government Code § 7070 Defined Equipment Inventory</p>	

I. GOVERNMENT CODE § 7070 DEFINED EQUIPMENT INVENTORY

<p>Equipment Name / Category: Small Unmanned Aircraft System (sUAS) – Government Code § 7070(c)(1)</p>	
<p>Quantity Owned: See description below</p>	<p>Lifespan: 10 years</p>
<p>Manufacturers Product Description(s):</p> <p>DJI Matrice M200v2 with Z30 and XT2 cameras, approx. cost \$35,000, quantity: 1. The ultimate platform for aerial productivity combines a rugged design and simple configurability to work as a solution for a variety of industrial applications. Improvements to the M200 Series V2 enhance intelligent control systems, flight performance, and add flight safety and data security features. https://www.dji.com/matrice-200-series-v2 Additional description: An enterprise platform UAV that provides up to 45 minutes of flight time and around 3 miles of range. This UAV has interchangeable zoom and thermal imaging cameras that record video and still pictures. The Matrice can be tethered to the ground for unlimited flight.</p> <p>DJI Mavic 2 Enterprise Advanced, approx. cost \$7,000 each, quantity: 6. Capture accurate details in any mission with the Mavic 2 Enterprise Advanced – a highly versatile yet compact tool that packs a whole lot of performance upgrades. With high-resolution thermal and visual cameras, the M2EA supports up to 32x digital zoom and is capable of centimeter-level positioning accuracy with the RTK module. https://www.dji.com/mavic-2-enterprise-advanced Additional description: An enterprise platform UAV that provides up to 30 minutes of flight time and around 2 miles of range. This UAV has fixed color and thermal imaging cameras that can record video and still pictures. This UAV can be outfitted with a loudspeaker or spotlight. This UAV has an approximate weight of 899 grams.</p> <p>DJI Phantom 4 Pro, approx. cost \$2,000 each, quantity: 4. An uprated camera is equipped with a 1-inch 20-megapixel sensor capable of shooting 4K/60fps video and Burst Mode stills at 14 fps. The adoption of titanium alloy and magnesium alloy construction increases the rigidity of the airframe and reduces weight, making the Phantom 4 Pro similar in weight to the Phantom 4. The Flight Autonomy system adds dual rear vision sensors and infrared sensing systems for a total of 5-direction of obstacle sensing and 4-direction of obstacle avoidance. https://www.dji.com/phantom-4-pro?from=p4p-or-p4a Additional description: A prosumer UAV that provides up to 30 minutes of flight time and around 2 miles of range. This platform is dated, but still has one of the best camera systems available, as the camera has a mechanical shutter for optimal picture quality. This UAV is mostly used for overhead mapping and 3D imaging.</p> <p>DJI Mavic Mini 1, approx. cost \$500 each, quantity: 4. DJI Mavic Mini - Drone FlyCam Quadcopter UAV with 2 7K Camera 3-Axis Gimbal GPS 30min Flight Time less than 0 55lbs Gray. Charging Temperature Range - 5° to 40°C (41° to 104°F). https://www.dji.com/mavic-mini</p>	

Additional description: A consumer UAV that provides up to 20 minutes of flight time and around 1 mile of range. This UAV has a color camera that can record video and still images. The Mavic Mini 1 is an extremely small platform that can be fitted with propellor guards and flown inside buildings and tight spaces.

DJI Mavic Mini 2, approx. cost \$600 each, quantity: 19. DJI Mini 2 is beginner-friendly, powerful, and well, mini. Impressive performance, stunning image quality, and creative videos are just a few taps away. Explore an entirely new perspective, capturing the moments that make your life truly yours. <https://www.dji.com/mini-2> Additional description: A consumer platform UAV that provides up to 25 minutes of flight time and around 1 mile of range. This UAV has a 4K color camera that can record video and still images. Like its predecessor, the Mini 1, this is a very small platform UAV that is ideally suited for flying inside buildings and tight spaces, especially when fitted with propellor guards. The Mini 2 weighs 249 grams.

DJI Mavic Pro, approx. cost \$1500, quantity: 1. The DJI Mavic Pro is a portable and powerful drone with a 3-axis gimbal 4K camera, a max transmission range of 4.1 mi (7 km), and a sophisticated design. <https://www.dji.com/mavic> Additional description: This consumer platform UAV is dated but still has an excellent camera system. This UAV weighs approximately 1.5 pounds and has a 30-minute flight time.

Wingtra Gen 1, approx. cost \$45,000, quantity: 1. The Wingtra is a professional fixed-wing platform UAV that can take off and land from a vertical position. The Wingtra has around 60 minutes of flight time and is only used for overhead imaging. The primary purpose of this UAV is to rapidly map large areas during disaster response. The Wingtra cannot record video and flights must be pre-programmed before takeoff.

DJI Mavic Enterprise Zoom, approx. cost \$2200 each, quantity: 2. The DJI Mavic 2 Enterprise is a foldable, portable, long-range flying camera and accessory system that adapts well to uses by first responders and businesses that routinely inspect hard-to-reach assets.

<https://www.dji.com/mavic-2-enterprise> Additional description: An enterprise level UAV that has a color camera as well as an audible speaker and light. As the name implies, this UAV has good zooming capability, which enables it to fly higher, as to not agitate potential suspects on the ground. This UAV is capable of video recording and weighs approximately 2 pounds. The Mavic Zoom offers up to a 30-minute flight time.

DJI Mavic Enterprise Dual, approx. cost \$2500 each, quantity: 2. Mavic 2 Enterprise Dual features a three-axis gimbal stabilized camera housing a side-by-side 4K sensor for capturing visible light and a FLIR imaging sensor for capturing thermal data. Together these sensors allow pilots to perform flights at night, as well as fly in complex daytime conditions like fog and smoke. <https://www.dji.com/mavic-2-enterprise> Additional description: UAV that has a color "Day" camera as well as infrared nighttime capabilities. This UAV also has an audible speaker and light. This UAV is the predecessor to the more robust Mavic 2 Enterprise Advanced, which has a much better infrared and zoom camera system. This UAV weighs approximately 2 pounds and offers up to a 30-minute flight time.

DJI FPV, approx. cost \$1500 each, quantity: 2. DJI FPV has a built-in imaging system, high-definition, low-latency transmission with a range of up to 10 km, and a battery life of approximately 20 minutes. <https://www.dji.com/dji-fpv> Additional description: This unique "First Person View" UAV offers an immersive flying experience and is currently being tested for indoor flying. The pilot wears a headset and can view a live feed of the UAV as if walking through the building it is being flown through. This UAV also serves as a training platform, as it requires a much higher level of skill to fly than most other UAVs.

Purpose: To be deployed when its view would assist officers or incident commanders with the following situations, which include but are not limited to: (1) major collision investigations, (2) search for missing persons, (3) natural disaster management, (4) crime scene photography, (4) SWAT, tactical, or other public safety and life preservation mission, and (6) in response to specific requests from local, state, or federal fire authorities for fire response and/or prevention.

Authorized Use: Only assigned operators who have completed the required training shall be permitted to operate the drones during approved missions.
Fiscal Impact: Annual maintenance and battery replacement cost is approximately \$500 per unit
Training: All Sheriff's Office sUAS operators are licensed by the Federal Aviation Administration for sUAS operation as remote pilots under FAA Part 107. In addition, each operator must attend Sheriff's Office approved ongoing training.
Legal and Procedural Rules: Use is established under General Policy 1.06.84 (Small Unmanned Aircraft Systems) and FAA Regulation 14 CFR Part 107. It is the policy of the Sheriff's Office to utilize UAS only for official law enforcement or training purposes, and in a manner that respects the privacy of our community, pursuant to applicable law.
Additional Information: None

Equipment Name / Category: Unmanned, remotely piloted, powered ground vehicles – Government Code § 7070(c)(12)	
Quantity Owned: 4	Lifespan: All robots, 8-10 years
Manufacturer's Product Description(s): ROBOTEX Avatar II , cost \$12,500, quantity: 2. The AVATAR® enhances the capabilities of SWAT and tactical response teams by allowing them to inspect dangerous situations quickly and safely, there is no longer a need to send personnel in before you have had a chance to assess the situation.	
<p>The AVATAR® saves lives by keeping first responders out of harm's way, and it does so at a fraction of the price of other robots. The AVATAR® Robots are regarded by tactical teams as a standard operational tool, like a firearm, vehicle, or piece of body armor. Departments across the United States and internationally are using the AVATAR® Robots.</p> <p>https://robotex.com/products/avatar-tactical-robot/</p>	
TRANSCEND TACTICAL Vantage , cost \$16,900, quantity: 1. Transcend's Vantage robot is the world's only double-patented automatic stair and obstacle climbing robot for First Responders. It's the only option for First Responders that want their robot to "just figure it out" on the first attempt to climb stairs, clothes, and junk without the burden of tedious manual controls associated with flippers and other limb systems. This means the Vantage can be used without prior training to enter a house or building to see, hear and learn what's happening before sending officers inside. https://www.transcendrobotics.com/transcendproduct/vantage-patrol-robot/#overview	
RECON ROBOTICS Throwbot 2 , cost \$2,000, quantity: 1. The Recon Robotics Throwbot 2 is a throwable micro-robot platform that enables operators to obtain instantaneous video and audio reconnaissance within indoor or outdoor environments. https://reconrobotics.com/products/throwbot-2-robot/	
Purpose: This robot is used in response to critical incidents to enhance officer and community safety. They can be used to remotely gain visual/audio data, deliver the Hostage Negotiation Team throw phone, open doors, and clear buildings.	
Authorized Use: Only personnel who have been trained in the use of the robots will be authorized to use them.	
Fiscal Impact: Annual maintenance cost is approximately \$500	
Training: All operators must have completed a familiarization training in the set-up, control, and safe deployment of the robots. All operators are also members of the SWAT team who have completed an 80-hour POST-certified Special Weapons and Tactics Course.	
Legal and Procedural Rules: It is the policy of the Sheriff's Office to utilize a robot only for official law enforcement purposes, and in a manner that respects the privacy of our community,	

pursuant to applicable law.
Additional Information: None

Equipment Name / Category: Armored Personnel Carrier – Government Code § 7070(c)(2)	
Quantity Owned: 2	Lifespan: 25 years
Manufacturers Product Description(s): LENCO BEARCAT, G2 , cost: \$244,043.42, quantity: 1. 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 <u>only</u> found on the Lenco BearCat line of armored SWAT vehicles for Police and Government. https://www.lencoarmor.com/model/bearcat-g2-police-government/ LENCO BEARCAT, G3 , cost: \$291,283, quantity: 1. The BearCat G3 provides Lenco’s proven armor system in a ruggedized off-road platform. The G3 utilizes the same body design, interior features, and tactical options as the G2, but it comes standard with a heavier duty upgraded suspension and off-road tires, rims & run flats to provide enhanced off-road performance. The increased ground clearance and robust suspension allows for emergency response in rural regions and natural disaster scenarios where standard armored SWAT vehicles would experience challenges. If your mission takes you off-road, the Lenco BearCat G3 will get you where you need to go. Available with mission-specific design features for Police and Government, Medical and Fire Response. https://www.lencoarmor.com/model/bearcat-g3-police-government/	
Purpose: To be used in response to critical incidents to enhance officer and community safety, improve scene containment and stabilization, and assist in resolving critical incidents.	
Authorized Use: The use of armored rescue vehicles shall only be authorized by a SWAT commander, Assistant SWAT commander, or designee, based on the specific circumstances of a given critical incident. The Patrol Division Commander will be notified of the deployment of the armored vehicle as soon as practical. Armored rescue vehicles shall be used only by personnel trained in their deployment and in a manner consistent with Patrol Division policy 3.01.72.	
Fiscal Impact: Annual maintenance cost of approximately \$2,500 each.	
Training: Operators are required to participate in initial and yearly Sheriff’s Office approved training to demonstrate familiarity with the operation and controls of the armored vehicle.	
Legal and Procedural Rules: Use is established under General Policy 1.06.24 and Patrol Division policy 3.01.72, as well as applicable law.	
Additional Information: The Lenco Bearcat G2 was purchased in 2007 with Homeland Security grant funding.	

Equipment Name / Category: Command and control vehicles – Government Code § 7070(c)(5)	
Quantity Owned: 1	Lifespan: 20 years
Manufacturers Product Description(s): LDV, C40MCC-10 , cost \$913,110.11, quantity: 1. Ten large workstations, an additional exterior workstation, a lavatory and plentiful communications storage and interior workspace, this floorplan is all business. With middle entry and four slide outs, there is room to spare allowing for front conference space as needed. https://www.ldvusa.com/truck/contra-costa-county-sheriff-mobile-command-center/	
Purpose: To be used based on the specific circumstances of a given critical incident. A mobile office that provides shelter, access to computer systems, and restroom facilities during extended events. The Mobile Command Vehicle (MCV) can also be utilized for SWAT/HNT and other	

critical incidents, pre-planned large events, searching for missing persons, natural disasters, and community events.
Authorized Use: The MCV shall be used by officers trained in its deployment and in a manner consistent with Sheriff's Office policies and training. Only officers who have completed the California Class B Commercial driving school and are properly licensed are allowed to drive the MCV.
Fiscal Impact: Annual maintenance cost is approximately \$2,500
Training: The driver/operator shall receive Sheriff's Office approved training in the safe handling of the vehicle. Driver/operators shall also undergo California Department of Motor Vehicles commercial vehicle testing.
Legal and Procedural Rules: Use is established under General Policy 1.06.26, as well as applicable law.
Additional Information: The MCV was purchased using Homeland Security grant funds.

Equipment Name / Category: Explosive breaching apparatuses / battering rams – Government Code § 7070(c)(7)	
Quantity Owned: See description below	Lifespan: 10 years
Manufacturers Product Description(s):	
<p>REMINGTON 870 breaching shotgun, cost is unknown as they were purchased before 2006, quantity: 2. A specially designed Remington 870 shotgun that is retrofitted with a spiked standoff breaching barrel that allows for the safe and effective firing of frangible copper rounds. Similar breaching shotgun: https://royalarms.com/shop/royal-remington-870-police-parkerized-breaching-shotgun-2/</p> <p>ROYAL ARMS TESCER shotgun breaching ammunition, cost \$4.50 per round, quantity: 21. Green Cap 2-3/4" 375 Grain Clayvon® Frangible 12 Ga Shotgun Slug. Additional description: A frangible round which is deployed from a 12-gauge breaching shotgun. https://royalarms.com/shop/tescr3-frangible-breaching-ammo/</p> <p>NONEL nonelectric delay detonator, cost \$7.50 each, quantity: 60. It consists of a length of orange shock tube with high strength detonator attached to one end and the other end sealed. A white J-hook is affixed near the sealed end, providing easy means of connection to detonating cord.</p> <p>PRIMACORD 10 Detonating cord, cost \$691, quantity: 1000 ft. 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.</p> <p>BATTERING RAM, cost (included with Lenco Bearcat), quantity: 2. Each Lenco Bearcat has the ability to mount a ram to the front of the vehicle. The ram can be used for both creating an entry point into a location, as well as safely deploying a chemical agent into a location.</p>	
Purpose: Used in high-risk tactical operations to destroy deadbolts, locks, and hinges. During crisis situations, it may become necessary for a SWAT team to facilitate an entry into a location to ensure the safety of innocent persons inside the stronghold, the suspect, the officers, and the public.	
Authorized Use: SWAT personnel trained in its proper use for law enforcement purposes.	
Fiscal Impact: Approx. \$5.00 per round and will be purchased as needed to replenish existing supply as they are used during deployments and training. Expected to purchase approximately 10 breaching rounds for \$50 during the year.	
Training: Instructor-led training which involves familiarization, authorized uses, and hands-on instruction. The instructor will have attended a Shotgun Breaching Course. Additionally, all operators are also members of the SWAT team who have completed an 80-hour POST certified Special Weapons and Tactics Course.	

Only SWAT team members who have attended a 9-day tactical explosive breacher course are allowed to handle the nonelectric detonators and detonating cord.

Legal and Procedural Rules: Use is established under General Policy 1.06.24, 1.06.61, and 1.07.32, as well as applicable law.

Additional Information: None

Equipment Name / Category: Specialized firearms and ammunition – Government Code § 7070(c)(10)

Quantity Owned: See description below

Lifespan: Approximately 5 to 15 years depending on usage

Manufacturers Product Description(s):

The Office of the Sheriff has the following rifles in its inventory which are capable of firing .223/5.56mm caliber rifle rounds. These rifles are used by SWAT personnel.

HK G36C, approx. cost \$1,900, quantity: 4. With its short 8.98-inch (228 mm) barrel and buttstock folded, the G36C (compact carbine) has an overall length of less than 20 inches—shorter than an MP5 submachine gun. It is the perfect 5.56 mm weapon for use in confined areas such as a vehicle. The G36C can even be fired with its buttstock folded. With the installation of an HK G36 magazine conversion magazine well, the G36C can use widely available AR/M16/M4 type magazines. <https://hk-usa.com/hk-models/g36c/>

The Office of the Sheriff has the following rifles in its inventory which are capable of firing .308 caliber rifle rounds:

GA Precision .308 rifles, cost \$4,986, quantity: 8.

Remington 700 .308 rifles, Cost is unknown as the last one was purchased in 2006, quantity: 8. 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® over moldings on the stock facilitate sure handling, and it has a semi-beavertail fore-end for added stability off a rest. <https://www.remarms.com/rifles/bolt-action/model-700/model-700-sps-tactical>

The Office of the Sheriff has the following firearms in its inventory that are capable of firing 9mm rounds:

HK MP5, approx. Cost \$2,000, quantity: 2. Developed by Heckler & Koch in the mid-1960s, the 9 mm MP5 submachine gun uses the same delayed blowback operating system found on the famous HK G3 automatic rifle. Reliability, accuracy, ease of handling, simple maintenance, and safety - all the elements of HK excellence are highlighted on the MP5. Firing from the closed-bolt position in all modes of fire make MP5 submachine guns extremely accurate and controllable. <https://hk-usa.com/hk-models/mp5-2/>

HORNADY .308 WIN TAP ELD, approx. cost: \$1.25 per round, quantity: 10,000. Hornady 308 WIN TAP 168 gr. ELD MATCH TAP PRECISION ammunition was designed as an improvement on the 168 gr. A-MAX TAP PRECISION load by incorporating the new ELD Match bullet. The 168 gr. ELD Match bullet with Heat Shield tip delivers the excellent terminal performance TAP Precision is known for, but features a resilient, heat resistant polymer tip that improves the ballistic coefficient, resulting in higher impact velocities, less drop, less wind drift, and more energy on target. <https://www.hornadyle.com/rifle-ammunition/168-gr-eld-match-tap-precision#!/>

Purpose: The rifle can be more effective than a sidearm when dealing with certain critical and life-threatening situations including overcoming heavily armed resistance, achieving containment, and saving lives. Such situations include but are not limited to: (1) Violent and armed suspects

wearing body armor, (2) Subjects armed with high-capacity automatic or semi-automatic weapons, (3) Multiple armed suspects, (4) Distance is beyond the capabilities of handgun, and (5) Hostage situation where precision is necessary and is beyond the capabilities of a handgun.

Authorized Use: All full-time sworn peace officers are trained in its proper use for law enforcement purposes.

Fiscal Impact: Approximately \$6,000 per year for ammunition and \$1,000 per year for maintenance on the GA Precision rifles.

Training: All personnel issued a rifle capable of firing a .308 caliber round are members of the SWAT team, have attended an 80-hour POST-certified Special Weapons and Tactics Course and a 40-hour Rifle Marksmanship and Sniper/Observer Course. These personnel attend SWAT team training and an additional 8-hour training day each month specifically for the deployment of the .308 rifle.

Legal and Procedural Rules: Use is established under General Policy 1.06.61, 1.07.32, and as well as applicable law.

Additional Information: The HK G36C rifles and HK MP5 firearms are only used for training and demonstration purposes and have not been assigned to a SWAT team member as their primary rifle for several years.

Five of the Remington 700 rifles are no longer in service.

Three of the Remington 700 rifles recently had their barrels and their triggers replaced. The three recently refurbished rifles can be used if a GA Precision rifle is being serviced and is unable to be used during a SWAT operation.

Equipment Name / Category: "Flashbang" grenades – Government Code § 7070(c)(12)

Quantity Owned: 101

Lifespan: 5 years

Manufacturers Product Description(s):

Defense Technology Low Roll Non-Reloadable Distraction Device, cost \$50 each, quantity: 101. The Non-Reloadable Distraction Device® unit incorporates an M201A1 type fuze with hex design gun steel body. This is a compact version of the 8933 Low Roll® body Distraction Device is the newest version of the first reusable non-bursting canister that limits movement and rolling once deployed. The compact Distraction Device fits safely in your hand and packs all the power of the full-size Distraction Device. This is a smaller, lighter device with the same output. <https://www.defense-technology.com/product/low-roll-12-gram-non-reloadable-distraction-device/>

Purpose: The diversionary device is designed to temporarily incapacitate an individual through sound and light.

Authorized Use: The device is utilized in situations where it is necessary to gain a tactical advantage or provide a distraction, to overcome a situation where the threat of violence or danger exceeds the capabilities of standard Office of the Sheriff equipment. Examples are a hostage or barricaded subject incident and a high-risk warrant where there may be extreme hazards to personnel.

Fiscal Impact: They will be purchased as needed to replenish existing supply as they are used during deployments and training. It is anticipated that 20 diversionary devices will be purchased for a cost of \$1,000.

Training: All members of the SWAT team who have completed an 80-hour POST-certified Special Weapons and Tactics Course and personnel who have attended a course for diversionary devices are authorized for use. All SWAT team members receive refresher training from personnel who have attended an instructor course for diversionary devices.

Legal and Procedural Rules: It is the policy of the Sheriff's Office to utilize noise flash diversionary devices (NFDD) only for official law enforcement or training purposes and pursuant to applicable law.

Additional Information: None.

Equipment Name / Category: Tear gas and pepper balls – Government Code § 7070(c)(12)

Quantity Owned: See description below

Lifespan: 5 years

Manufacturers Product Description(s):

DEFENSE TECHNOLOGY Spede-Heat CS Grenade, cost approx. \$20 each, quantity: 33.

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. <https://www.defense-technology.com/product/spede-heat-continuous-discharge-chemical-grenade-cs/>

DEFENSE TECHNOLOGY Riot Control CS Grenade, cost approx. \$25, quantity: 169. The Riot Control CS Grenade is designed specifically for outdoor use in crowd control situations with a high-volume continuous burn that expels its payload in approximately 20-40 seconds through four gas ports located on the top of the canister. This grenade can be used to conceal tactical movement or to route a crowd. The volume of smoke and agent is vast and obtrusive. This launchable grenade is 6.0 in. by 2.35 in. and holds approximately 2.7 oz. of active agent. <https://www.defense-technology.com/product/riot-control-continuous-discharge-grenade-cs/>

DEFENSE TECHNOLOGY Riot Control OC Grenade, cost approx. \$25, quantity: 5. The Riot Control OC Grenade is designed specifically for outdoor use in crowd control situations with a high-volume continuous burn that expels its payload in approximately 20-40 seconds through four gas ports located on the top of the canister. This grenade can be used to conceal tactical movement or to route a crowd. The volume of smoke and agent is vast and obtrusive. This launchable grenade is 6.0 in. by 2.35 in. and holds approximately 0.88 oz. of active agent. <https://www.defense-technology.com/product/riot-control-continuous-discharge-grenade-oc/>

DEFENSE TECHNOLOGY Pocket Tactical CS Grenade, cost approx. \$20, quantity: 1. 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. <https://www.defense-technology.com/product/pocket-tactical-grenade-cs/>

DEFENSE TECHNOLOGY Instantaneous Blast CS Grenade, cost approx. \$35, quantity: 21. 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. <https://www.defense-technology.com/product/instantaneous-blast-cs-grenade/>

DEFENSE TECHNOLOGY Instantaneous Blast OC Grenade, cost approx. \$20, quantity: 100. 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. <https://www.defense-technology.com/product/instantaneous-blast-oc-grenade/>

DEFENSE TECHNOLOGY Flameless Tri-Chamber Grenade, cost approx. \$35, quantity: 15. 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. Its applications in tactical situations are primarily to detect and/or dislodge barricaded subjects. The purpose of the Tri-Chamber Flameless Grenade is to minimize the risks to all parties through pain compliance, temporary discomfort, and/or incapacitation of potentially violent or dangerous subjects. The Tri-Chamber Flameless Grenade provides the option of delivering a pyrotechnic chemical device indoors, maximizing the chemicals' effectiveness via heat and vaporization, while minimizing or negating the chance of fire to the structure. <https://www.defense-technology.com/product/flameless-tri-chamber-cs-grenade/>

DEFENSE TECHNOLOGY Triple-Chaser CS grenade, cost approx. \$33, quantity: 50. 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. <https://www.defense-technology.com/product/triple-chaser-separating-canister-cs/>

DEFENSE TECHNOLOGY Triple-Chaser Smoke grenade, cost approx. \$43, quantity: 33. The Triple-Chaser® Saf-Smoke™ 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 and is an effective way to quickly deploy a wide blanket of agent. The grenade is 6.5 in. by 2.7 in. and delivers Saf-Smoke™. It has an approximate burn time of 20 seconds. <https://www.defense-technology.com/product/triple-chaser-separating-canister-saf-smoke/>

DEFENSE TECHNOLOGY Stinger CS rubber ball grenade, cost approx. \$43, quantity: 79. The Stinger® CS Rubber Ball Grenade 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 fuze 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. <https://www.defense-technology.com/product/stinger-cs-rubber-ball-grenade/>

DEFENSE TECHNOLOGY Stinger OC rubber ball grenade, cost approx. \$40.50, quantity: 16. The Stinger® OC Grenade is a maximum effect device that delivers four stimuli for psychological and physiological effects: rubber pellets, light, sound, and OC. 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 fuze 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. <https://www.defense-technology.com/product/stinger-rubber-ball-grenade-oc/>

DEFENSE TECHNOLOGY Inert rubber ball grenade, cost approx. \$36, quantity: 91. The Inert Rubber Blast Ball Grenade can be used effectively in both training and crowd management situations. It simulates the dispersion of Riot Control Agents from a CS, CN, or OC Blast Ball in a training environment, but without the actual chemical exposure. Deployed in crowd management /custodial situations to deliver light/sound stimuli from a rubber ball style grenade without chemical agent exposure <https://www.defense-technology.com/product/rubber-ball-blast-grenade-inert/>

DEFENSE TECHNOLOGY Military-style SAF-Smoke grenade (White), cost approx. \$26, quantity: 37. The Saf-Smoke™ Grenade was designed for training, but may also be used in

operations. The Saf-Smoke Grenade offers the same approximate burn times as the Spede-Heat™ Grenade in CN or CS and the Riot Control Grenade in CN or CS. The similar burn times may make it the appropriate choice for training or simulation deployment of chemical agent canisters. The Saf-Smoke formulation is considered to be less toxic than Hexachloroethane (HC) smoke. The Saf-Smoke Grenade emits a very white smoke. <https://www.defense-technology.com/product/military-style-saf-smoke-grenade/>

DEFENSE TECHNOLOGY Military-style Green smoke grenade, cost approx. \$37, quantity: 15. The Maximum Smoke Grenade is designed specifically for outdoor use in crowd control situations with a high volume continuous burn that expels its payload in approximately 30-40 seconds through four gas ports located on the top of the canister. This grenade can be used to conceal tactical movement or to route a crowd. The volume of smoke and agent is vast and obtrusive. This launchable colored smoke grenade is 6.0 in. by 2.35 in. and holds approximately 2.9 oz. of active agent. <https://www.defense-technology.com/product/military-style-green-smoke-grenade/>

DEFENSE TECHNOLOGY Maximum HC Smoke, cost approx. \$39, quantity: 22. The Maximum Smoke Grenade is designed specifically for outdoor use in crowd control situations with a high volume continuous burn that expels its payload in approximately 1.5 – 2 minutes through four gas ports located on the top of the canister. This grenade can be used to conceal tactical movement or to route a crowd. The volume of smoke and agent is vast and obtrusive. This launchable grenade is 6.0 in. by 2.6 in. and holds approximately 2.9 oz. of active agent. <https://www.defense-technology.com/product/maximum-smoke-hc-large-style-canister/>

DEFENSE TECHNOLOGY CS Powder 40mm Ferret, cost approx. \$20, quantity: 51. 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 the structure or vehicle. Defense Technology no longer makes this type of ferret.

DEFENSE TECHNOLOGY CS Barricade Penetrating 40mm Ferret, cost approx. \$20, quantity: 20. 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. <https://www.defense-technology.com/product/ferret-40-mm-powder-barricade-round-cs/>

DEFENSE TECHNOLOGY Liquid CS 40mm Ferret, cost approx. \$20, quantity: 33. 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. 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. <https://www.defense-technology.com/product/ferret-40-mm-liquid-barricade-penetrator-round-cs/>

DEFENSE TECHNOLOGY Direct impact 40mm OC crushable foam round, cost \$20 each, quantity: 81. The 40mm Direct Impact® munition 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 OC powder, the Direct Impact combines blunt trauma with the effects of an irritant powder, maximizing the potential for incapacitation. <https://www.defense-technology.com/product/direct-impact-40-mm-oc-crushable-foam-round/>

COMBINED TACTICAL SYSTEMS 5210 White Smoke Grenade, cost \$40.90, quantity 6.

<p>Pyrotechnic smoke grenade used for concealment or as a signaling device. https://www.combinedsystems.com/product/5210-white-smoke-canister-grenade/ COMBINED TACTICAL SYSTEMS 5230 Jet Lite CS Grenade, cost \$40.90, quantity 9. A large diameter burning grenade designed to discharge a high volume of smoke and chemical agent rapidly through multiple emission ports. The smoke composition is formulated to burn rapidly decreasing the possibility that the grenade can be picked up and thrown back at crowd management officers. The Jet-Lite should not be deployed on rooftops, in crawl spaces or indoors due to fire producing capability. Can be hand thrown or launched. https://www.combinedsystems.com/product/5230jl-cs-baffled-canister-grenade-pyro-low-flame-potential-copy/</p>
<p>COMBINED TACTICAL SYSTEMS 5430 Flameless CS Grenade, cost \$40.90, quantity 6. Large diameter flameless grenade posing no risk of fire and discharging a large powder payload instantaneously through multiple emission ports. Provides best results when used indoors. https://www.combinedsystems.com/product/5430-cs-flameless-expulsion-canister-grenade/</p>
<p>Purpose: The chemical irritant causes discomfort and encourages subjects to retreat from its vicinity so officers can safely resolve a critical incident, such as a situation involving a barricaded subject.</p>
<p>Authorized Use: Only personnel who have received training by an instructor who has attended a POST chemical agent or less lethal instructor course may use.</p>
<p>Fiscal Impact: Munitions will be purchased as needed to replenish existing supply as they are used during deployments and training. It is anticipated that the Sheriff's Office will spend approximately \$6,000 this year on munitions.</p>
<p>Training: All operators will receive training by an instructor who has attended a POST certified chemical agent instructor or less lethal course.</p>
<p>Legal and Procedural Rules: Use is established under General Policy 1.06.24, 1.06.60, 1.06.61, and 1.07.32, as well as applicable law.</p>
<p>Additional Information: The Mutual Aid Mobile Field Force (MAMFF) has additional munitions in its inventory that have expired and are only for training purposes.</p>

<p>Equipment Name / Category: Long Range Acoustic Device (LRAD) – Government Code § 7070(c)(13)</p>	
<p>Quantity Owned: 2</p>	<p>Lifespan: 25 years</p>
<p>Manufacturers Product Description(s): LRAD 100x, cost approx. \$15,000, quantity: 2. The LRAD 100X is a self-contained, portable communication system for on-scene and tactical communication. With unparalleled vocal clarity and up to 30db louder than bullhorns, megaphones, and vehicle P.A. systems, the LRAD 100X is also four to six times louder than other acoustic hailers of comparable size and weight. LRAD's optimized driver and waveguide technology ensures every message is clearly broadcast, heard and understood, even above engine, crowd, siren, and background noise. The LRAD warning tone commands attention to the voice messages that follow and provides a safer alternative to non-lethal and kinetic measures for changing behavior. https://genasys.com/wp-content/uploads/Datasheet_LRAD_100X_2021_QR.pdf</p>	
<p>Purpose: To safely communicate critical announcements and de-escalate critical incidents by ensuring communications are clear and effectively delivered. They are typically used by the Office of the Sheriff during high-risk search/arrest warrant service and barricaded subject incidents but can be used in other situations as needed when it is necessary to ensure information and messages are clearly communicated. The LRAD may also be used to issue a warning tone.</p>	
<p>Authorized Use: The LRAD shall only be used by personnel trained in its deployment and used in a manner consistent with that training.</p>	
<p>Fiscal Impact: Annual maintenance cost of approximately \$400.</p>	

Training: All operators will receive Sheriff's Office approved training prior to operating any of the LRADs in the field.

Legal and Procedural Rules: It is the policy of the Sheriff's Office to utilize the LRAD only for official law enforcement or training purposes and pursuant to applicable law.

Additional Information: None.

Equipment Name / Category: 40mm projectile launchers and munitions – Government Code § 7070(c)(14)

Quantity Owned: See product description

Lifespan: 15 years

Manufacturers Product Description(s):

PENN ARMS GL6-40, approx. cost \$1500, quantity: 3. A 40MM spring-advance magazine drum launcher with a six-shot capacity and a rifled barrel and six-inch cylinder.

<https://www.combinedsystems.com/product/1640-1-40mm-spring-wound/>

DEFENSE TECHNOLOGY 4 SHOT 40mm launcher, approx. cost \$1500, quantity: 2. Designed for riot and tactical situation, the Defense Technology 1440 40mm Tactical 4-Shot Launcher is low-profile and lightweight, providing multi-shot capability in an easy to carry launcher.

<https://www.defense-technology.com/product/40mm-tactical-4-shot-launcher/>

DEFENSE TECHNOLOGY 40mm single shot launcher, approx. cost \$900, quantity: 52.

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.

<https://www.defense-technology.com/product/40mm-lmt-tactical-single-launcher-expandable-stock/>

LEWIS MACHINE AND TOOL 40mm single shot launcher, approx. cost \$1000, quantity: 1.

The LMT® Tactical Single Shot Launchers are a lightweight, low-cost tactical single shot launcher available in 2 models: 40 mm and 37 mm. They feature an expandable ROGERS Super Stoc and an adjustable Integrated Front Grip (IFG) with light rail. The Picatinny Rail Mounting System with a bead sight will accept a wide array of enhanced optics/sighting systems for added customizability.

<https://www.aardvarktactical.com/products/lmt-tactical-launcher>

PEPPERBALL FTC pepperball launcher, approx. cost \$400, quantity: 13. Compact and lightweight, the PepperBall FTC is the industry gold standard for crowd-control and other applications where speed and reliability are a factor.

<https://pepperball.com/launchers/ftc-1/>

FN 303 LAUNCHER, approx. cost \$1,300, quantity: 7. The FN 303 Less Lethal Launcher is constructed from durable lightweight polymer with comfortable ergonomics and an easy to operate safety. The FN 303 Launcher is equipped with both flip-up iron sights and an integrated MIL-STD-1913 top mounting rail for optical or electronic sights or other accessories. The lightweight polymer magazine holds 15 projectiles and offers a clear rear cover to allow the operator to instantly verify both the payload type and the number of projectiles remaining.

<https://fnamerica.com/products/discontinued-products/fn-303-launcher/>

DEFENSE TECHNOLOGY eXact impact 40mm sponge round, cost \$18 each, quantity: 559.

The eXact iImpact™ 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.

<https://www.defense-technology.com/product/exact-impact-40-mm-standard-range-sponge-round/>

DEFENSE TECHNOLOGY Direct impact 40mm marking crushable foam round, cost \$18 each, quantity: 150. A 40mm sponge round that is a point-of-aim, point-of-impact direct-fire

round. The direct impact round has a green marking agent that can be used to indicate the aggressor in a crowd or riot situation to the team on the ground. <https://www.defense-technology.com/product/direct-impact-40-mm-marking-crushable-foam-round/>

DEFENSE TECHNOLOGY Stinger 40mm 60-caliber rubber balls, cost \$19 each, quantity: 305. The Stinger® 40 mm 60-Caliber Round is most widely used as a crowd management tool by Law Enforcement and Corrections. The round contains approximately eighteen 60-Caliber rubber balls. It utilizes smokeless powder as the propellant and has more consistent velocities and tighter patterns compared to its 37 mm counterpart. It is suitable for administering a means of pain compliance over a greater distance than its 32-Caliber Stinger® counterpart. Used for routing crowds or groups that are mildly resistive. <https://www.defense-technology.com/product/stinger-40-mm-60-caliber-rubber-balls-round/>

DEFENSE TECHNOLOGY 40mm warning/signaling munition, cost \$39 each, quantity: 275. The 40mm Aerial Warning/Signaling Munition, 50 meters, is intended for use in situations where stand-off distance is desired, giving the operator the ability to engage crowds, vehicles, or vessels. Launched from a 40mm platform, the munitions deflagrate at a set distance of 50 meters to deliver 170 dB of sound and 5 million candelas of light, noticeable in day or night conditions. A tactile feature on the nose of the cone indicates the designated distance. <https://www.defense-technology.com/product/40-mm-warning-signaling-munition-50-meter/>

DEFENSE TECHNOLOGY Drag Stabilized 12-gauge bean bag round, cost \$5.50 each, quantity: 22. 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. <https://www.defense-technology.com/product/drag-stabilized-12-gauge-bean-bag-round/>

PEPPERBALL PAVA ammunition, approx. cost: \$2.25 per round, quantity: 958. .68 caliber A powerful concentration of 5% PAVA pepper powder. One round of LIVE-X™ contains the equivalent PAVA irritant chemical agent in more than 2 classic PepperBall LIVE™ rounds. Excellent for direct impact, area saturation and crowd control.

<https://pepperball.com/projectiles/live-x/>

FN 303 marking projectile, approx. cost \$5 per round, quantity: 296. This projectile is intended for marking suspects and objects with an indelible colorant for later identification, arrest or questioning. <https://fnamerica.com/products/less-lethal/projectiles/?referrer=law-enforcement>

FN 303 PAVA/OC POWDER projectile, approx. cost \$5 per round, quantity: 300. This projectile is intended as an irritant for individual suspects, point-specific targets or small-area denial. The active ingredient is 0.5% PAVA/OC in a powder form for ease of storage, deployment, and clean-up. <https://fnamerica.com/products/less-lethal/projectiles/?referrer=law-enforcement>

Purpose: The 40mm and less lethal launchers are a necessary de-escalation tool which can reasonably result in use of a lesser level of force being used against a subject. Less lethal munitions may also be deployed when other levels of force are not proportional or are inappropriate because of the surroundings or situation. The goal of less lethal deployment is to exert control over a subject(s) with increased safety and with a lower potential for injury.

Authorized Use: Personnel trained in its proper use for law enforcement purposes.

Fiscal Impact: Each type of munition will be purchased as needed to replenish existing supply as they are used during deployments and training. It is anticipated that the Sheriff's Office will be spend approximately \$2,000 on munitions this year.

Training: All operators will receive training by an instructor who has attended a POST certified less lethal course.

Legal and Procedural Rules: Use is established under General Policy 1.06.24, 1.06.60, 1.06.61, and 1.07.32, as well as applicable law.

Additional Information: The Defense Technology 40mm chemical agent rounds are listed in the inventory for Government Code § 7070(c)(12) equipment.

The Mutual Aid Mobile Field Force (MAMFF) has additional Stinger rounds, 40mm bean bag rounds, and 12-gauge bean bag rounds which are all expired and are being disposed of. They also have 6 Pepper Ball launchers which are no longer used.